

Hans-Joachim Freund
Invited Talks (since 1984)

1. "Elektronenspektroskopie molekularer Adsorbate"
GdCh-Vortrag
03.05.1984, Erlangen

2. "Bandstruktur und winkelaufgelöste Valenzphotoionization aus geordneten Kohlenmonoxid-adsorbaten"
Bunsentagung
02.06.1984, Kaiserslautern

3. "Many Body Effects in Adsorbed Atoms and Molecules"
Tagung
7.06.1984, Trieste, Italy

4. "Comparison of Photoelectron Spectra of CO Adsorbates and CO Transitionmetal Complexes"
ISPICC, Tagung
11.07.1984, Berlin

5. "Chemical Information from Photoelectron Spectroscopy"
Seminar, General Electric
04.10.1984, Schenectady, USA

6. "Electron Spectroscopy of N₂ Complexes and Adsorbates. A Comparison"
Seminar
09.10.1984, Philadelphia, USA

7. "Vielteilcheneffekte bei der Photoemission an molekularen Adsorbaten"
Oberflächenphysik Seminar
05.12.1984, Osnabrück

8. "Elektronenspektroskopie molekularer Adsorbate"
Seminar
13.12.1984, Göttingen

9. "Interpretation von Elektronenenergieverlustspektren molekularer Adsorbate"
Seminar
04.01.1985, Köln

10. "Interpretation of the N1s-Photoelectron Spectra of chemisorbed N₂ in Terms of Local Metalmolecule Interactions" (with: R.P. Messmer, C.M. Kao, E.W. Plummer)
3S-Symposium
29.01.1985, Obertraun, Austria

11. "Electronic and Geometric Structure of CO on Ni(110): Experiment and Theory"
(with: H. Kühlenbeck, M. Neumann)
ECOSS
02.04.1985, Aix-en-Provence, France

12. "Photoemission from Ordered Physisorbed Adsorbate Layers: N₂ Graphite and CO, N₂ Ag(111)" (with: D. Schmeisser, F. Greuter, E.W. Plummer)
ECOSS
03.04.1985, Aix-en-Provence, France

13. "Photoemissionsstudien an molekularen Adsorbaten"
IGV-Seminar,
02.05.1985, Jülich

14. "Elektronische und geometrische Struktur von CO/Ni(110)p2mg"
Oberflächenphysik Seminar
30.05.1985, Würzburg

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15. "Photoionisation molekularer Adsorbate auf Oberflächen"
Oberflächenphysik Seminar
19.06.1985, Saarbrücken

 16. "Photoionization of Molecular Adsorbates on Transition Metal Surfaces"
PC-Kolloquium
27.06.1985, Szeged, Hungary

 17. "How to Interpret ESCA-Chemical Shifts?"
GE-Branch Seminar, General Electric R&D
27.08.1985, Schenectady, USA

 18. "Photoelectron and Electron Energy Loss Spectroscopy of Transition Metal Adsorbates in Comparison to Transition Metal Compounds"
Physik. Kolloquium
27.08.1985, Orono, USA

 19. "On the Bonding of CO₂ Towards Metal Surfaces"
GE-Branch Seminar, General Electric R&D
12.09.1985, Schenectady, USA

 20. "Electron Energy Loss Spectroscopy of CO on Metal Surface: a New Interpretation"
Seminar
15.10.1985, Philadelphia, USA

 21. "Photoemission from Ordered Physisorbed Adsorbate Phases: N₂-Graphite, N₂ and CO on Ag(111)" (with: D. Schmeisser, I.W. Luy, F. Greuter, E.W. Plummer)
Bunsenkolloquium
26.09.1985, Erlangen

 22. "Elektronenspektroskopien zur Untersuchung von Oberflächen: ein Vergleich"
Seminar
08.01.1986, Düsseldorf

 23. "Theoretische Untersuchungen an molekularen Adsorbaten"
Physik-Kolloquium
10.01.1986, Osnabrück

 24. "Intermolekulare Wechselwirkungen auf Oberflächen: Eine elektronenspektroskopische Studie"
PC-Kolloquium
03.02.1986, Mainz

 25. "Bremsstrahlungs-Isochromaten im System CO/Ni(110): Starke intermolekulare Wechselwirkungen" (with: J. Rogozdik, V. Dose, M. Neumann)
DPG-Tagung
07.02.1986, Freudenstadt

 26. "Photoemissionsstudien zur elektronischen Struktur molekularer Adsorbate"
PC-Kolloquium
14.02.1986, Bochum

 27. "Elektronische Struktur von Adsorbaten"
WEH-Seminar
04.03.1986, Bad Honnef

 28. "CO₂ adsorption and CO₂/O Coadsorption and Reaction on Ni(110): An Angle Resolved Photoemission Study" (with: B. Bartos, H. Kuhlenbeck, M. Neumann)
ECOSS
14.04.1986, Jülich

 29. "Adsorption and Reaction von CO₂ auf einer Nickel(110)-Oberfläche: Eine richtungsaufgelöste Photoemissionsstudie" (with: B. Bartos, H. Kuhlenbeck, M. Neumann)
Bunsentagung
10.05.1986, Heidelberg
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30. "Zur elektronischen Struktur und zur Reaktivität molekularer Adsorbate: Elektronen-spektroskopische Studien"
PC-Kolloquium
11.06.1986, München
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31. "Autoionization of CO after C1s \rightarrow 2 π^* excitation: A comparison with photoemission and Auger-Spectroscopy"
ICTP-Tagung
26.06.1986, Trieste, Italy
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32. "Dynamic Effects in VUV and XUV Spectroscopy of Organic Molecular Solids"
VUV-8 Tagung
06.08.1986, Lund, Sweden
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33. "CO₂ Adsorption and Reaction on Ni(110) and Fe(111): An Angle Resolved Photoemission Study" (with: B. Bartos, G. Wedler, H. Kuhlenbeck, M. Neumann)
VUV-8 Tagung
06.08.1986, Lund, Sweden
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34. "Elektronenspektroskopische Untersuchungen an molekularen Adsorbaten: Dissoziations-Precursor-Zustände"
ÖGV-Seminar
10.02.1987, Innsbruck, Austria
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35. "Winkelaufgelöste Photoemissionsstudien am Koadsorptionssystem CO + O/Pd(111)" (with: G. Odörfer, B. Bartos, H. Kuhlenbeck, M. Neumann)
DPG-Tagung
16.-20.03.1987, Igls, Austria
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36. "N₂-Adsorption auf Fe(111): ARUPS-Studien" (with: B. Bartos, R.P. Messmer, M. Grunze, H. Kuhlenbeck, M. Neumann)
DPG-Tagung
16.-20.03.1987, Igls, Austria
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37. "Geometrie und molekulare Struktur von Benzol auf Os(0001)"
(with: H.H. Graen, M. Neumann, G. Odörfer, J. Wambach, G. Illing, F.P. Netzer)
DPG-Tagung
16.-20.03.1987, Igls, Austria
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38. "Selektive Eigenschaften in der laserinduzierten Desorption von NO auf Ni" (with: D. Weide, P. Andresen)
DPG-Tagung
16.-20.03.1987, Igls, Austria
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39. "Orientation of Molecular N₂ on Fe(111) as Determined by Angle Resolved Photemission: σ -N₂ vs. π -N₂"
ECOSS 9
12.-16.04.1987, Luzern, Switzerland
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40. "UV-Laser Stimulated Resonant Desorption from Metall: NO/Ni(100)"
ECOSS 9
12.-16.04.1987, Luzern, Switzerland
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41. "UV-Laser Stimulated Resonant Desorption from Metal: NO/Ni(100)"
(with: P. Andresen, D. Weide)
Bunsentagung
8.-30.05.1987, Göttingen
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42. "A Direct Observation of the Two-dimensional \tilde{O} -d Bands for Adsorbed CO" (with: M. Neumann, H. Kuhlenbeck, H.B. Saalfeld, E.W. Plummer)
2nd Nordic Conf. Surf. Sci.
16.06.1987, Linköping, Sweden
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43. "Adsorption und Reaktion von CO₂ auf Übergangsmetallen: Identifikation eines Dissoziations-Precursor-Zustands" (with: B. Bartos, H. Kohlenbeck, M. Neumann)
GDCh-Hauptversammlung
14.09.1987, Berlin
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44. "Autoionisation molekularer Adsorbate"
(with: G. Illing, T. Porwol, H. Kuhlenbeck, M. Neumann)
Statusseminar Synchrotronstrahlung
10.-11.12.1987, Berlin
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45. "CO₂ Adsorption und Reaktion auf Übergangsmetalloberflächen"
Kolloquium des MPI f. Strömungsforschung
27.01.1988, Göttingen
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46. "Photoemissionsuntersuchungen an molekularen Adsorbaten"
DPG-Tagung, Hauptvortrag
14.03.1988, Karlsruhe
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47. "Adsorption von CO₂ auf einer Na-vorbelegten Pd(111)-Oberfläche" (with: J. Wambach, G. Odörfer, H. Kuhlenbeck, M. Neumann)
DPG-Tagung
14.3-18.03.1988, Karlsruhe
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48. "Autoionisation nach $c1s \rightarrow 2\pi$ -Anregung im System CO/Ni(110)"
(with: G. Illing, T. Porwol, H. Kuhlenbeck, M. Neumann, S. Bernstorff)
DPG-Tagung
14.03-18.03.1988, Karlsruhe
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49. "Adsorption und Reaktion von CO₂ auf Ni(110): XPS und NEXAFS Studien"
(with: G. Buskotte, M. Neumann, G. Illing, Th. Lindner, J. Somers, A.M. Bradshaw)
DPG-Tagung
14.03.-18.03.1988, Karlsruhe
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50. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik"
Physikalisches Kolloquium
21.04.1988, Düsseldorf
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51. "Moleküle auf Metalloberflächen: Elektronische Struktur und Dynamik"
Chemisches Kolloquium (GDCh)
06.06.1988, Dortmund
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52. "Influence of Alkali-co-adsorption on the Adsorption and Reaction of CO₂ on Pd/(111)" (with: J. Wambach, G. Odörfer, H. Kuhlenbeck, M. Neumann)
ECOSS 10
05.-08.09.1988, Bologna, Italy
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53. "UV-Laser induzierte Desorption von Metalloberflächen"
Physikalisch-chemisches Kolloquium
19.12.1988, Hannover
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54. "Autoionisation nach Anregung innerer Elektronen: CO₂/Ni(110)"
(with: G. Illing, H. Kuhlenbeck, M. Neumann, S. Bernstorff, W. von Niessen, C.-M. Liegener)
DPG-Tagung
04.04.-07.04.89, Münster
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55. "Schwingungsspektroskopische Untersuchungen an den Systemen NO/Ni(100), NO+O/Ni(100), NO₂/Ni(100)"
(with: G. Odörfer, G. Watson, K.D. Tsuei, E.W. Plummer)
DPG-Tagung
04.04.-07.04.89, Münster
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56. "N₂ adsorbiert auf Ni(110): Bedeckungsgradabhängige ARUPS-Studien" (with: H. Kuhlenbeck, M. Neumann)
DPG-Tagung
04.04.-07.04.89, Münster
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57. "Adsorption von NO auf Ni(100) und NiO - Eine Untersuchung mit ARUPS und NEXAFS" (with: R. Jaeger, H. Geisler, G. Odörfer, H. Kuhlenbeck, M. Neumann)
DPG-Tagung
04.04.-07.04.89, Münster
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58. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik"
GdCh-Vortrag
02.05.1989, Bonn
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59. "Autoionisationspektroskopie nach Anregung innerer Elektronen: Eine Möglichkeit zur Untersuchung der Ionenzustände von Adsorbaten" (with: G. Illing, T. Porwol, H. Kuhlenbeck, M. Neumann, S. Bernstorff, W. Braun)
Bunsentagung
04.-06.05.1989, Siegen
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60. "Temperaturabhängiges Adsorptionsverhalten von Benzol auf Übergangsmetall-oberflächen: Erster Nachweis und Charakterisierung von C₆H₄ auf Os(0001)" (with: H.H. Graen, M. Neuber, M. Neumann, G. Illing, F.P. Netzer)
Bunsentagung
04.-06.05.1989, Siegen
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61. "Moleküle auf Metalloberflächen: Elektronische Struktur und Dynamik"
Chemisches Kolloquium, (GDCh)
23.05.1989, Heidelberg
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62. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik"
Physik-Kolloquium
09.06.1989, Bielefeld
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63. "Korrelationseffekte bei der Ionisation von Adsorbaten"
Seminar
26.06.1989, Osnabrück
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64. "Moleküle auf Metalloberflächen: Elektronische Struktur und Dynamik"
GdCh-Vortrag
05.07.1989, Essen
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65. "Electron Spectroscopy of Adsorbates via Autoionization of Core-to-bound Excited States: Experiment und Theory" (with: G. Illing, T. Porwol, I. Hemmerich, G. Dömötör, H. Kuhlenbeck, C.-M. Liegener, W. von Niessen)
Fourth International Conference on Electron Spectroscopy ICES4
10.-14.07.1989, Honolulu, Hawaii, USA
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66. "UV-Laserphotochemistry of Molecules on Solid Surfaces: NO/Ni(100)-0" (with: Th. Mull, G. Odörfer, H. Kuhlenbeck, D. Weide, U. Schütter, P. Andresen, F. Budde, P. Ferm, V. Hamza, G. Ertl)
Ninth International Conference on Vacuum Ultraviolet Radiation Physics, (VUV9)
17.-21.07.1989, Honolulu/Hawaii, USA
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67. "Thermal and Photo-chemistry of Triatomics (CO₂, NO₂) on Metals and Oxides"
IUVSTA-workshop meeting "The structure and reactivity of small molecules on Surfaces",
17.-22.07.1989, Ofir, Portugal
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68. "UV-Laser-Induced Photodesorption of NO from NiO" (with: Budde, IBM T.J. Watson Research Center, P.M. Ferm, Allied-Signal Inc. A.V. Hamza, Sandia National Laboratories, S. Jakubith, G. Ertl, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, D. Weide, P. Andresen, Max-Planck-Institut für Strömungsforschung, Göttingen)
AVS, 36th National Symposium
23.-27.10.1989 Boston, Massachusetts, USA
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69. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik."
Physik Seminar
10.10.1989, Witten-Herdecke
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70. "Photochemisch induzierte Desorption von Molekülen an Oberflächen."
Kolloquium zum 60. Geburtstag G. Wedler
27.10.1989, Erlangen-Nürnberg
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71. "Lichtinduzierte Reaktionen an Oberflächen"
Max-Planck-Institut für Quantenoptik
30.01.1990, München
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72. "Adsorption und Reaktion von CO₂ auf reinen und modifizierten Metalloberflächen"
Seminar der FG "REAKOB",
13.02.1990, Erlangen-Nürnberg
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73. "Modellierung der Moleküldynamik nach UV-Laserinduzierter Desorption" (with: B. Baumeister, M. Menges, Th. Mull)
DPG-Tagung (Oberflächenphysik),
26.03.-30.03.1990, Regensburg
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74. "Winkelaufgelöste Autoionisationsspektroskopie von CO, N₂, und NO auf Ni(110) bzw. Ni(100): Experiment und Theorie" (with: I. Hemmerich, G. Dömötör, T. Porwol und G. Illing)
DPG-Tagung (Oberflächenphysik)
26.-30.03.1990, Regensburg
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75. "UV-Laserinduzierte Desorption und Reaktion von Stickoxiden (NO, NO₂) auf geordneten Nickeloxidoberflächen" (with: Th. Mull, M. Menges, B. Baumeister und H. Kühlenbeck)
DPG-Tagung (Oberflächenphysik)
26.-30.03.1990, Regensburg
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76. "Adsorption kleiner Moleküle auf geordneten Cr₂O_y und NiO-Schichten" (with: C. Xu, G. Odörfer, G. Illing, R. Jaeger, J. Wambach und H. Kühlenbeck)
DPG-Tagung (Oberflächenphysik)
26.03.-30.03.1990, Regensburg
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77. "Photoelektronenspektroskopie"
3. Ringbergtreffen "Technologie der Strahl-Laser-Wechselwirkung: Cluster und Oberflächen",
Schloß Ringberg
07.-11.05.1990, Tegernsee
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78. "Moleküle auf Oberflächen: Struktur und Dynamik"
Koll. "Spektrum der Materialwissenschaften"
11.06.1990, Bochum
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79. "Moleküle auf Oberflächen: Struktur und Dynamik"
Chemisches Kolloquium
27.06.1990, Basel
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80. "Moleküle auf Oberflächen: Struktur und Dynamik"
Chemisches Kolloquium
16.07.1990, Ulm
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81. "Adsorption on Oxide Surfaces, Structure and Dynamics"
LBL Material Science Center
18.10.1990, Berkeley, USA
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82. "Adsorption on Oxide Surfaces, Structure and Dynamics"
LBL Chemistry Department
16.11.1990, Berkeley, USA
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83. "Adsorption on Oxide Surfaces, Structure and Dynamics"
Physik-Seminar
06.12.1990, Rutgers University, USA
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84. "Molecular Adsorption on Oxide Surfaces: An Overview"
LRSM-Kolloquium
07.12.1990, University of Pennsylvania, USA
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85. "Adsorption and Reaction of Molecules on Thin, Ordered Metall-oxide Films on Metal Substrates"
Seminar
21.03.1991, Technical University, Lyngby, Denmark
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86. "Richtungsaufgelöste Autoionisationsspektroskopie von CO auf Ni(110)" (with: T.Porwol, G. Dömötör, I. Hemmerich, G. Illing, C.M. Liegener)
DPG-Tagung (Oberflächenphysik) Münster
08.04.-12.04.1991, Münster
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87. "SPA-LEED-Untersuchungen zur strukturellen Charakterisierung eines dünnen NiO(100)-Films auf einer gestuften Ni(100)-Oberfläche" (with: M. Bäumer, D. Cappus, H. Kuhlenbeck)
DPG-Tagung (Oberflächenphysik) Münster
08.04.-12.04.1991, Münster
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88. "ARUPS- und TDS-Untersuchungen an den Systemen Ag/Ni(100) und NO/Ag/Ni(100)" (with: F. Winkelmann, H. Kuhlenbeck)
DPG-Tagung (Oberflächenphysik)
08.04.-12.04.1991, Münster
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89. "Adsorption von NO, NO₂, CO, und CO₂ auf epitaktischem Cr₂O₃(111)/Cr(110)" (with: C. Xu, H. Kuhlenbeck, M. Haßel, B. Adam, M. Neuber, M. Neumann)
DPG-Tagung (Oberflächenphysik)
08.04.-12.04.1991, Münster
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90. "Adsorption und Reaktion von CO₂ und H₂ auf Ni(110)" (with: J. Wambach, D. Ehrlich)
DPG-Tagung (Oberflächenphysik)
08.04.-12.04.1991, Münster
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91. "UV-laserinduzierte Desorption von NO/O/Ni(100)"
(with: M. Menges, Th. Mull, B. Baumeister, D. Weide, C. Fischer, P. Andresen)
DPG-Tagung (Oberflächenphysik)
08.04.-12.04.1991, Münster
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92. "Elektronenspinresonanzuntersuchungen an Adsorbaten im Ultrahochvakuum"
Physik-Seminar
17.04.1991, Marburg
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93. "Untersuchung einer dünnen geordneten Aluminiumoxidschicht auf NiAl(110)" (with: R.M. Jaeger, H. Kuhlenbeck, M. Wuttig, W. Hoffmann)
Bunsentagung
09.05.-11.05.1991, Bochum
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94. "Struktur eines dünnen NiO(100)-Films auf einer schwach gestuften Ni(100)-Oberfläche"
(with: M. Bäumer, D. Cappus, H. Kuhlenbeck)
Bunsentagung
09.05.-11.05.1991, Bochum
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95. "UV-Laserdesorption von NO/O/Ni(100)" (with: Th. Mull, M. Menges, B. Baumeister, D. Weide, C. Fischer, P. Andresen)
Bunsentagung
09.05.-11.05.1991, Bochum
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96. "Structure of a Thin Aluminium Oxide Film Grown by Oxidation of NiAl(110)"
(with: H. Kuhlenbeck, R.M. Jaeger, M. Wuttig, W. Hoffmann, R. Franchy and H. Ibach)
III European Conference on Surface Crystallography
26.05.-29.05.1991, San Miniato, Italy
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97. "Molekulare Adsorption an Oxid-Oberflächen: Struktur und Dynamik"
PC-Kolloquium
03.06.1991, Karlsruhe
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98. "NO(X2P) Quantum State Populations after UV-Laser Desorption from NiO(100)"
European Research Conference "Fundamental Aspects of Surface Science"
10.-14.06.1991, Davos, Schweiz
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99. "Surface Science Studies of Molecular Adsorbates on Solid Surfaces. A Series of Case Studies"
NATO Advanced Study Institute, "Metal-Ligand Interactions:from atoms, to clusters, to surface"
16.-21.06.1991, Cetraro, Italy
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100. "Moleküle auf Oberflächen: Struktur und Dynamik "
PC-Kolloquium
01.07.1991, Münster
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101. "Elektronenspektroskopische Untersuchungen dünner geordneter Aluminiumoxidschichten auf NiAl"
Seminar, Max-Planck-Institut für Eisenforschung
02.07.1991, Düsseldorf
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102. "Autoionization Versus Photoionization and Auger decay of Physisorbed Molecular Adsorbates: Condensed Benzene on Cu(110)"
(with: T. Porwol, G. Dömötör, R. Dudde, C.-M. Liegener, W. von Niessen)
IWASES II, International Workshop on Auger Spectroscopy and Electronic Structure, 04.09.-06.09.1991, Lund, Sweden
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103. "Fully State-resolved 2-D Imaging of Desorbing NO Molecules from NiO(100)" (with: M. Menges, B. Baumeister, Th. Mull, H.-J. Freund, C. Fischer, D. Weide, P. Andresen)
ECOSS 12, 12th European Conference on Surface Science
09.09.-12.09.1991, Stockholm, Sweden
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104. "Structure of a thin Aluminium Oxide Film Grown by Oxidation of NiAl(110)" (with: H. Kühlenbeck, R.M. Jaeger, M. Wuttig, W. Hoffmann, R. Franchy, H. Ibach)
ECOSS 12, 12th European Conference on Surface Science
09.09.-12.09.1991, Stockholm, Sweden
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105. "Molecules on Metal- and Oxide-surfaces: Structure and Dynamics"
Schuit-Kolloquium
25.09.1991, Eindhoven, The Netherlands
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106. "Adsorbate und kein Ende....!?"
WEH-Seminar "Gelöste und ungelöste Probleme der Oberflächenphysik",
03.-05.10.1991, Kassel
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107. "The Structure of a Thin NiO(100) Film Grown on Ni(100) - a SPA- LEED Study" (with: M. Bäumer, D. Cappus, G. Illing, H. Kühlenbeck)
National Symposium of the American Vacuum Society
11.11.-15.11.1991, Seattle, USA
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108. "Adsorption and Reaction of Molecules on Ordered Metal and Metal Oxide Surfaces"
German-Australian Workshop on Surface Science
02.-05.12.1991 Kensington, Sidney, Australien
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109. "Laser Induced Desorption of Molecules from Oxide Surfaces"
German-Australian Workshop on Surface Science
02.-05.12.1991 Kensington, Sydney, Australia
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110. "Adsorption auf Oxiden"
Physikalisches Kolloquium
13.01.1992, Erlangen
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111. "Moleküle auf Oberflächen"
Physikalisch-Chemisches Kolloquium
04.02.1992, Köln
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112. "Adsorption and Reaction of Molecules on Oxide Surfaces"
Seminar INIFTA,
10.03.1992, La Plata, Argentina
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113. "Laser-induced Desorption of Molecules from Oxide Surfaces"
Seminar INIFTA
11.03.1992, La Plata, Argentina

 114. "CO₂ Activation on Clean and Modified Metal Surfaces"
Seminar INIFTA
12.03.1992, La Plata, Argentina

 115. "Adsorption and Reaction of Molecules on Oxide Surfaces"
Seminar INIQUI
16.03.1992, Salta, Argentina

 116. "Elektronische Struktur von Adsorbaten auf Oberflächen"
IFF Ferienschule "Synchrotronstrahlung zur Erforschung der kondensierten Materie",
23.03.-03.04.1992, Forschungszentrum Jülich

 117. "Low Energy Excitations and Desorption Dynamics from Oxide Surface"
DIET V, Plenarvortrag
01.04.-04.04.1992, Taos, New Mexico, USA

 118. "Light Induced Desorption of Molecules from Oxide Surfaces as Probed by Laser Techniques"
Seminar am Lawrence Livermore National Laboratory
06.04.1992, Livermore, USA

 119. "Adsorption of Molecules on Oxide Surfaces"
Kolloquium, Department of Physics, University of Rhode Island
08.04.1992, Kingston, USA

 120. "Dynamics of Molecules Desorbing from Oxide Surfaces as Probed by Laser Techniques"
Seminar, Department of Applied Physics, Yale University,
10.04.1992, New Haven, USA

 121. "Moleküle auf Oberflächen: Struktur und Dynamik"
Physikalisch-Chemisches Kolloquium
28.04.1992, Freiburg

 122. "Moleküle auf Oxidoberflächen":
Physikalisch-Chemisches Kolloquium
27.05.1992, LMU München

 123. "Elektronische Struktur von Oxidoberflächen"
Seminar, Experimentalphysik
07.07.1992, Saarbrücken

 124. "Moleküle auf Oberflächen: Struktur und Dynamik"
GdCh-Vortrag
02.07.1992, Göttingen

 125. "Adsorption and Reaction of Molecules on Surfaces of Metal-metaloxide Systems"
4th Symposium on the Mechanisms of Heterogeneous Catalysis
27.07.-31.07.1992, Krakow, Poland

 126. "Die Haut kondensierter Materie: Die physikalische Chemie der Oberflächen" (with: C. Wöll)
Ferienakademie der Studienstiftung des Deutschen Volkes,
16.-29.09.1992, Alpbach, Austria

 127. "ESR-studies in Ultra-high-vacuum of Adsorbates on Single Crystal Surfaces"
Diskussionstagung der Bunsengesellschaft
30.09.-02.10.1992, Lahnstein

 128. "Laser Induced Processes on Oxide Surfaces"
Dead Sea Symposium on Dissociation Dynamics
04.-06.01.1993, Kibbutz Ein-Gedi, Israel

 129. "Low Energy Excitations and Desorption Dynamics from Oxide Surfaces"
Seminar, The Fritz-Haber Institute of Molecular Dynamics, Hebrew University
07.01.1993, Jerusalem, Israel
-

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130. "Desorptionsdynamik mit Lasern an Oberflächen"
Mitarbeiterseminar des Instituts für Physikalische Chemie und Elektrochemie der Universität
Düsseldorf
04.02.1993, Düsseldorf
-
131. "Molecular Adsorption on Thin Ordered Oxide Films (NiO, Cr₂O₃, Al₂O₃)"
WEH-Symposium: "Adsorption on Ordered Surfaces of Ionic Solids and Thin Films"
15.-17.02.1993, Bad Honnef
-
132. "Introduction to the PhD. thesis of A. Sandell"
Department of Physics, Uppsala University
26.03.1993, Uppsala, Sweden
-
133. "Die elektronische Struktur der NiO(100-Oberfläche und der Einfluss von OH-Gruppen auf das
Adsorptionsverhalten von NO auf NiO(100) und NiO(111)"
92. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie e.V.
20.-22.05.1993, Leipzig
-
134. "ESR Under UHV Conditions on Single Crystal Metal and Metal-Oxide Surfaces"
Symposium on Surface Science
10.-16.05.1993, Kitzsteinhorn, Kaprun, Austria
-
135. "Adsorbates on Metals"
Ringberg Symposium: Electronic Structure of Surfaces and Interfaces
26.-29.05.1993, Tegernsee
-
136. "Vibrational Structure in Excited States of Molecules on Oxide Surfaces"
7th International Conference "Vibrations at Surfaces"
14.-17.06.1993, S. Margherita-Portofino, Italy
-
137. "Molecules on Oxide Surfaces: Structure and Dynamics"
European Conference Series on Catalysis: Second G.-M. Schwab Symposium, Plenarvortrag
18.-23.07.1993, Berlin
-
138. "Electronic and Geometric Structure of Adsorbates"
5th International Conference on Electron Spectroscopy, ICES-5,
26.07.-01.08.1993, Kiev/Ukraine, Plenary talk
-
139. "Adsorption at Oxide Surfaces"
Seminar, Chemistry Department,
27.08.1993, Cambridge, United Kingdom
-
140. "Molecules on Clean and Modified Oxide Surfaces: Structure and Dynamics"
ECOSS, Plenarvortrag
30.8.-04.09.1993, Warwick, United Kingdom
-
141. "Activation of Carbon Dioxide and its Interaction with Transition Metal Surfaces"
CO₂- Workshop
19.-24.09.1993, Hemava, Sweden
-
142. "Photoelektronenspektroskopie an molekularen Adsorbaten"
Seminarvortrag
03.12.1993, Leipzig
-
143. "CO₂-Aktivierung und Oberflächenchemie in der Physikalischen Chemie in Bochum"
Seminarvortrag
22.12.1993, Ruhrchemie Oberhausen
-
144. "Struktur und Dynamik molekularer Adsorbate auf Oxidoberflächen"
12.01.1994, Max-Planck-Institut für Strömungsforschung, Göttingen
-
145. "Adsorption on Epitaxial Oxide Films as Model Systems for Heterogeneous Catalysis" (with H.
Kuhlenbeck)
2. German-Australian Workshop on Surface Science
24.-28.01.1994, Schloß Ringberg, Tegernsee
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146. "State and Spatially Resolved Studies of UV-laser Induced Desorption of Molecules from Oxide Surfaces"
Optics, Electro-Optics & Laser-Applications in Science and Engineering (OE-LASE '94)
27.-29.01.1994, Los Angeles, USA
-
147. "Adsorption at Clean and Modified Oxide Surfaces"
Department of Chemistry, Texas, A&M University
01.02.1994, College Station, USA
-
148. "ESR of Adsorbates on Single Crystal Surfaces"
Surface Science Seminar, Texas A&M University
02.02.1994, College Station, USA
-
149. "ESR of Adsorbates on Single Crystal Surfaces"
Seminar, Oak Ridge National Laboratory,
04.02.1994, Knoxville, USA
-
150. "Adsorption and Reaction of Ultrathin Metal Films on Oxide Surfaces"
Seminar, University of Pittsburgh,
07.02.1994, Pittsburgh, USA
-
151. "Struktur und Reaktivität von reinen und modifizierten Oxidoberflächen"
IGV-Seminar
17.03.1994, KFA Jülich
-
152. "Polar Oxide Surfaces: Surface Stability, Reconstruction and Reactivity"
Workshop on "Surface reconstruction: Structure and Dynamics",
(60th birthday, K. Müller)
11.-13.04.1994, Erlangen
-
153. "Molecules on Oxide Surfaces"
Seminar, Universität Twente
29.4.1994, Enschede, The Netherlands
-
154. "Elektronische Oberflächenzustände und die photoinduzierte Zersetzung von Wasser auf Cr₂O₃(111)"
Bunsentagung
12.-14.05.1994, Berlin
-
155. "Dynamik desorbierender Teilchen von Festkörperoberflächen"
Physikalisch-chemisches Kolloquium, Technische Hochschule
09.06.1994, Darmstadt
-
156. "Adsorption at Oxide Surfaces: An Experimental Approach"
Quantum Chemical Aspects of Heterogeneous Catalysis
19.-23.6.1994, Berlin
-
157. "Electronic Structure of Adsorbates on Transition Metal Oxide Surfaces"
Adriatico Research Conference (ARC '94) on "Geometric and Electronic Structure of Solids and Surfaces"
13.07.1994, Trieste, Italy
-
158. "UV-Laser Desorption of NO from NiO(100): Ab-initio-and Wave-packet-calculation" (with: T. Klüner, J. Freitag, V. Staemmler)
Adriatico Research Conference (ARC '94) on "Lasers in Surface Science"
09.-12.08.1994, Trieste, Italy
-
159. "Lecture Series (3 lectures) on "Adsorption at Oxide Surfaces and Model Catalysts"
Nato-Advanced Study Institute "Metal-Ligand Interactions: Structure and Reactivity"
04.-16.09.1994, Cetraro, Italy
-
160. "Angle Resolved Autoionization Spectroscopy and NEXAFS of Adsorbates on Metal Oxide Surfaces", (with: J. Klinkmann)
Third International Workshop on Auger Spectroscopy and Electronic Structure (IWASES III)
05.-08.09.1994, Liverpool, United Kingdom
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161. "Structural Characterization of a Model Catalyst: Pt/Al₂O₃/NiAl(110)" (with: T. Bertrams, F. Winkelmann, H. Neddermeyer)
14th European Conference on Surface Science (ECOSS - 14)
19.-23.09.1994, Leipzig
-
162. "ESR of Adsorbates on Single Crystal Surfaces Under UHV Conditions: A Novel Approach to the Dynamics of Adsorbed Molecules"
Akademie der Wissenschaften
26.09.1994, Budapest, Hungary
-
163. "Laser Induced Desorption from Oxide Surfaces"
Seminar, Attila Josef Universität Szeged
27.09.1994, Szeged, Hungary
-
164. "Oriented Molecules on Oxide Surfaces"
OMSI 3 - Workshop, FOM-Institute for Atomic and Molecular Physics
30.09.-05.10.1994, Amsterdam, The Netherlands
-
165. "State and Spatially Resolved UV-laser-induced Desorption Studies"
51st Okazaki-Conference "Dynamics of Photoinduced Process at Surfaces"
05.-07.10.1994, Okazaki, Japan
-
166. "Molecules on Clean and Modified Oxide Surfaces"
Nagoya University, Department of Applied Chemistry
11.10.1994, Nagoya, Japan
-
167. "Carbondioxide Chemistry on Clean Surfaces"
Hitachi Advanced Research Laboratory
12.10.1994, Hatoyama, Saitama, Japan
-
168. "Molecules on Clean and Modified Oxide Surfaces"
Hitachi Advanced Research Laboratories
13.10.1994, Hatoyama Saitama, Japan
-
169. "Molecules on Clean and Modified Oxide Surfaces"
Institute of Solid State Physics
14.10.1994, University of Tokyo, Japan
-
170. "UV-Laser Induced Desorption of NO from NiO(100: ab-initio and Wave Packet Calculations"
(with: T. Klüner, J. Freitag, V. Staemmler)
6th International Workshop on Desorption Induced by Electronic Transitions
26.-29.10.1994, Krakau/Poland
-
171. "Molecules on Clean and Modified Oxide Surfaces"
Seminar, Universitaires Notre-Dame de la Paix
04.11.1994, Namur, Belgium
-
172. "Reaktivität von reinen und modifizierten Oxidoberflächen"
GdCh-Vortrag, Universität Ulm
17.11.1994, Ulm
-
173. "Oxidoberflächen, Struktur, Dynamik und Reaktivität"
Physikalisches Kolloquium, Universität Dresden
23.11.1994, Dresden
-
174. "Moleküle auf reinen und modifizierten Oxidoberflächen: Struktur und Dynamik"
GdCh-Vortrag, Universität Erlangen-Nürnberg
01.12.1994, Erlangen-Nürnberg
-
175. "Oxide Surfaces: Structure and Reactivity"
Gordon Conference on "Chemical Reactions at Surfaces"
22.-27.01.1995, Ventura, USA
-
176. "Molecules on Clean and Modified Oxide Surfaces"
Seminar, Universität Mailand,
22.02.1995, Milano, Italy
-

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177. "Metal Oxide Surfaces: Electronic Structure and Molecular Adsorption"
First German-Brasilian Workshop on "Applied Surface Science: Nanostructures, Sensors, Catalysis"
04.-07.04.1995, Brazil
-
178. "Molecules on Oxide Surfaces"
Seminar, COPPE
12.04.1995, Rio de Janeiro, Brazil
-
179. "Spectroscopy of Oxide Surfaces"
International Symposium on Atomic Bonding at Internal Interfaces: Modelling and Spectroscopy, Tagungsstätte der MPG, Schloß Ringberg
23.-28.04.1995, Tegernsee
-
180. "Cr₂O₃(111) Surface Spectroscopy: Clean and Adsorbate Covered Surfaces"
Seminar, University of Copenhagen
10.05.1995, Copenhagen, Denmark
-
181. "The Metal-oxide Interface and Supported Metals"
Seminar, Danish Society of Engineers, Copenhagen
11.05.1995, Denmark
-
182. "Struktur und Dynamik von Adsorbaten auf Oxidoberflächen"
Hauptversammlung der Deutschen Bunsengesellschaft Bremen (Plenarvortrag)
26.-28.05.1995, Bremen
-
183. "Moleküle auf komplexen Oberflächen"
GDCh-Vortrag
08.06.1995, Mülheim
-
184. "Chemie in zwei Dimensionen" (mit M. Bäumer)
Ferienakademie der Studienstiftung des Deutschen Volkes
16.-29.09.1995, Alpbach, Austria
-
185. "Moleküle auf Oxidoberflächen: Struktur und Dynamik"
31. Symposium für Theoretische Chemie, Evangel. Akadem. Loccum
10.-13.10.1995, Loccum
-
186. "Interaction of CO with Pd Clusters Supported on a Thin Alumina Film"
42nd National AVS Symposium, Mineapolis Convention Center,
16.-20.10.1995, Minneapolis/Minnesota, USA
-
187. "Four Lectures in PhD-course in Surface Physics"
1. General introduction to clean oxide surfaces
2. Reactivity of oxide surfaces
3. Oxide surface modification by metal deposition
4. Molecular motion and desorption dynamics on oxide surfaces"
Technical University of Denmark, Physics Department
02.-03.11.1995, Lyngby, Denmark
-
188. "Molecule on Metal-oxide Surfaces"
5. European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis Berlin,
06.-07.11.1995, Berlin
-
189. "Molecules on Complex Surfaces"
Physical Chemistry Seminar, Universität Louis Pasteur
14.11.1995, Strasbourg, France
-
190. "Oxide Surfaces and the Oxide-Metal Interface Workshop on „New Opportunities in Nanotechnologies and Materials Surfaces“
23.-24.11.1995, Barcelona, Spain
-
191. "Moleküle auf komplexen Oberflächen"
Physikalisches Kolloquium
04.12.1995, Würzburg
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192. "Moleküle auf komplexen Oberflächen"
Physikalisches Kolloquium
11.12.1995, Bochum
-
193. "Adsorption von Gasen auf Festkörperoberflächen"
GdCh-Vortrag
18.12.1995, Paderborn
-
194. "Surface and Adsorbate Dynamics at the Cr₂O₃(0001) Surface: Electron and Laser Spectroscopy".
Advanced research Laboratory, Hitachi
18.01.1996, Saitama, Japan
-
195. "Photon Simulated Desorption of CO and K from Cr₂O₃(0001)".
Institute of Solid State Physics, University of Tokyo
19.01.1996, Tokyo, Japan
-
196. "Size Dependent CO Dissociation on Rh Particles Supported on Thin Alumina Films"
18. Taniguchi Symp., „Elementary Processes in Excitations and Reactions on Solid Surfaces“,
23.01.1996, Kashikojima, Japan
-
197. "Electronic Excitations at Oxide Surfaces"
18. Taniguchi Symp., „Elementary Processes in Excitations and Reaction on Solid Surfaces“,
25.01.1996, Kashikojima, Japan
-
198. "Moleküle auf komplexen Oberflächen"
Verb. Österr. Chem. Innsbruck
29.01.1996, Innsbruck, Austria
-
199. "Dynamische Prozesse an Oxidoberflächen"
Walter-Schottky-Institut
08.02.1996, München
-
200. "Dynamische Prozesse auf Oxidoberflächen"
Physikalisch-chemisches Kolloquium der drei Berliner Universitäten (FU, TU, HU)
12.02.1996, Berlin
-
201. "Moleküle auf komplexen Oberflächen"
GDCh-Vortrag
13.03.1996, Jena
-
202. "Elementarprozesse bei molekularer Adsorption auf Oxidoberflächen"
Jahrestreffen Deutscher Katalytiker
20.-22.03.1996, Friedrichroda
-
203. "Elektronenspinresonanz an Monolagen selbstorganisierender Filme unter Ultrahochvakuumbedingungen"
Analytica 96
23.-26.04.1996, München
-
204. "Moleküle auf Verbindungsoberflächen: Struktur und Dynamik"
GdCh-Vortrag
07.05.1996, Siegen
-
205. "Morphology, Electronic Structure and Reactivity of Small Metal Particles Deposited on Thin Oxide Films"
10.05.1996, Marseille, France
-
206. "Moleküle auf komplexen Oberflächen"
GdCh-Vortrag
20.05.1996, Saarbrücken
-
207. "Moleküle auf komplexen Oberflächen"
Physik-Kolloquium
06.06.1996, Halle/Saale
-

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208. "Modellstudien zur Katalyse: Möglichkeiten und Grenzen"
Physik-Kolloquium
11.06.1996, Kiel
-
209. „Ultradünne Oxidfilme“
Physik-Kolloquium der FUB, TUB und HUB
13.06.1996, Berlin
-
210. "Moleküle auf komplexen Oberflächen“
CDCh Vortrag
21.06.1996, Tübingen
-
211. "Moleküle auf komplexen Oberflächen“
GdCh-Vortrag
03.07.1996, Frankfurt
-
212. "3 Vorlesungen zu den Themen:
1. Structure and reactivity of clean and modified oxide surfaces.
2. Electronic Structure and Morphology at Metals on crystalline oxide.
3. Reactivity of oxide-supported metals"
Nato Advanced Study Institute on „Chemisorption and Reactivity on Supported Clusters and Thin Films: Towards an understanding of Microscopic Processes in Catalysis“
15.-27.07.1996, Erice, Italy
-
213. "Moleküle auf komplexen Oberflächen“
GdCh-Vortrag
15.10.1996, Aachen
-
214. "Laser Induced Processes in Alkali Covered Oxide Surfaces"
BRITE-Euram Meeting
30.10.1996, Cardiff, United Kingdom
-
215. "Molecules on Complex Surfaces: Structure and Dynamics"
Seminar, Laboratoire de Photophysique Moleculaire, CNRS
08.11.1996, Orsay, France
-
216. "Moleküle auf komplexen Oberflächen“
GdCh-Vortrag
28.11.1996, Leipzig
-
217. "Adsorption and Reactivity of Clean and Modified Oxide Surfaces“.
Faraday Discussion on „Exploring the Catalytic interface“
16.-18.12.1996, Reading, UK
-
218. "Molecules on Complex Surfaces: Structure and Dynamics"
Seminar, University of Electrocommunications
10.12.1996, Tokyo, Japan
-
219. "Moleküle auf komplexen Oberflächen“
GdCh-Vortrag
07.01.1997, München
-
220. "Moleküle auf komplexen Oberflächen“
GdCh-Vortrag
09.01.1997, Hannover
-
221. "Chemistry and Modified Polar Surfaces of Oxides as Models for Reactive Oxide Surfaces"
Centre de Physique Les Houches
13.-17.01.1997, Les Houches, France
-
222. "Moleküle auf komplexen Oberflächen: Struktur und Dynamik"
IGFAFA-Kollquien, Adlershof
06.02.1997, Berlin
-

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223. "Morphology, Structure and Reactivity of Small Metal Aggregates on Alumina Supports"
Gordon Research Conference "Chemical Reactions at Surfaces"
17.02.1997, Ventura, USA
-
224. "Structure and Reactivity of a Polar Cr₂O₃(0001) Surface"
Gordon Research Conference "Chemical Reactions at Surfaces"
19.02.1997, Ventura, USA
-
225. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"
University of California
16.02.-04.03.1997, Berkeley, USA
-
226. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"
University of Washington
24.02.1997, Seattle, USA
-
227. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"
Sandia National Laboratories
27.03.1997, Albuquerque, USA
-
228. "Photo-Induced Processes on Alkali Covered Surfaces"
DIET VII
08.-11.04.1997, Ambleside, United Kingdom
-
229. "Moleküle auf komplexen Oberflächen"
Universität Rostock, Physikcolloquium
22.05.1997, Rostock
-
230. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"
4th Nordic Conference on Surface Science
29.05.-10.6.1997, Ålesund, Norway
-
231. "Desorption Dynamics at Oxide Surfaces"
German-Japanese Workshop on Dynamics at Surfaces
16.-20.06.1997, Berlin
-
232. „Elektronenbeugung und -spektroskopie kleiner deponierter Metallaggregate“
Antrittsvorlesung Festkörperkolloquium, F.U. Berlin
04.07.1997, Berlin
-
233. "Molecules on Oxide Surfaces"
Seminar, Universität Turin,
22.07.1997, Torino, Italy
-
234. "CO₂- und Methan-Aktivierung an wohldefinierten Oberflächen"
Seminar, Celanese, Werk Ruhrchemie Oberhausen
12.08.1997, Oberhausen
-
235. 1. "Clean and Modified Oxide Surfaces: Geometry and Electronic Structure"
2. "Molecular Adsorption on Clean and Modified Oxide Surfaces"
4th European Summerschool in Surface Science
16.-22.08.1997, Copenhagen, Denmark
-
236. "Adsorption and Reaction of Small Molecules on Deposited Metal Particles as Studied by
Electron and Infrared Spectroscopy"
Inst. of Industrial Science, University of Tokyo
04.09.1997, Tokyo, Japan
-
237. "Molecules on Clean and Modified Oxide Surfaces"
Tokyo Inst. of Technology
05.09.1997, Tokyo, Japan
-
238. "Adsorption and Reaction on Small Deposited Metal Aggregates"
IUVSTA-Workshop on Surface Chemistry on the Nanoscopic Scale
11.-13.09.1997, Oegstgeest, The Netherlands
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239. "AFM/STM Studies of Rhodium Deposits on an Alumina Film"
ECOSS 17
16.-19.09.1997, Enschede, The Netherlands
-
240. "Infrared Study of CO Adsorption on Alumina Supported Palladium Particles"
ECOSS 17
16.-19.09.1997, Enschede, The Netherlands
-
241. "Molecules on Complex Surfaces: Structure and Reactivity"
Seminar, University of California
13.10.1997, Riverside, USA
-
242. "Molecules on Complex Surfaces: Structure and Reactivity"
Seminar, University of Southern California
16.10.1997, Los Angeles, USA
-
243. "Molecules on Complex Surfaces: Structure and Reactivity"
Seminar, University of California
17.10.1997, Irvine, USA
-
244. "Clean and Modified Oxide Surfaces: Structure and Reactivity"
AVS 44th National Meeting
20.-24.10.1997, San José, USA
-
245. "Particle Size Dependent CO Dissociation on Alumina Supported Rh:
A Model Study"
AVS 44th National Meeting
20.-24.10.1997, San José, USA
-
246. "Metal Aggregates on Oxide Surfaces: Models in Material Science and Catalysis"
1st Conf. on Mat. Science
01.-04.11.1997, Karak, Jordan
-
247. "Moleküle auf komplexen Oberflächen: Struktur und Reaktivität kleiner getragener
Metallteilchen"
Physikalisch-Chemisches Kolloquium
11.11.1997, Heidelberg
-
248. "Molecules on Complex Surfaces: Structure and Dynamics"
Universität Nijmegen
18.11.1997, Nijmegen, The Netherlands
-
249. "Kann man Katalysatoren modellieren? Physikalische Chemie komplexer Oberflächen"
GDCh-Vortrag, Universität Bielefeld
20.11.1997, Bielefeld
-
250. "Metals on Thin Oxide Films"
GDR-CNRS Meeting on Metals on Oxides
24.-26.11.1997, Marseille, France
-
251. "Electronic Structure of Thin Oxide Films"
Oxid-workshop
04.-05.12.1997, Halle
-
252. "Kann man Katalysatoren modellieren?"
GDCh-Vortrag
11.12.1997, Ulm
-
253. "Adsorption und Reaktion an komplexen Oberflächen: Kann man Katalysatoren modellieren?"
GDCh-Vortrag
12.12.1997, Konstanz
-
254. "Metalldeponate auf Oxidoberflächen: Physikalische Chemie komplexer Oberflächen"
Vortrag, Paul-Scherrer-Institut
15.01.1998, Switzerland
-

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255. "Influence of Defects on Adsorption of Molecules on Oxide Surfaces and Deposited Metal Aggregates"
GDR-CNRS ISIAM-Meeting
20.-23.01.1998, Dole, France
-
256. "UV-Laser Induced Desorption of NO from the Pure and Modified Cr₂O₃(0001) Surface: Spin Effects in Surface State Induced Desorption"
SPIE Conference
30.01.1998, San José, California, USA
-
257. "Thermal and Light Induced Chemistry on Oxide Surfaces and Small Deposited Metal Aggregates"
Surface Science and Catalysis Seminar, LBL Berkeley
26.01.1998, Berkeley, USA
-
258. "Molecules on Small Metal Aggregates: Physical Chemistry of Complex Surfaces"
College Station
03.02.1998, Texas, USA
-
259. "Kleine deponierte Metallaggregate auf Oxidoberflächen: Modellkatalysatoren"
GDCh-Vortrag
12.02.1998, Stuttgart
-
260. "Kleine deponierte Metallaggregate: Struktur, Adsorption und Reaktivität"
Physikzentrum Bad Honnef
26.02.1998, Bad Honnef
-
261. "CO₂ Reaction with Well Characterized Oxide Surfaces: Cr₂O₃(0001)"
Vortrag 30.03.1998, Symposium on CO₂ Conversions
29.03.-02.04.1998, Dallas/Texas, USA
-
262. "Adsorption and Reaction of Molecules on Size Selected Deposited Nanometal Particles"
3S'98, Park City, Vortrag 31.03.98
29.03.-04.04.1998, Park City/Utah, USA
-
263. "Moleküle auf komplexen Oberflächen: Struktur und Dynamik"
GDCh-Vortrag
08.04.1998, Halle
-
264. "Molecules on Complex Surfaces: Metal Deposits on Oxide Supports"
VIth European Conf. on Surface Crystallography
10.-13.05.1998, La Grande Motte, France
-
265. "Komplexe Oberflächen: Metalle in Wechselwirkung mit Oxiden"
Kolloquiumsvortrag, Max-Planck-Institut für Festkörperforschung
09.06.1998, Stuttgart
-
266. "Metals on Oxide Surfaces: Physics and Chemistry"
Physical Electronics Conference (PEC), Plenarvortrag, Penn State
14.-17.06.1998, College Park, USA
-
267. "Adsorption on Clean Oxide Surfaces"
Summerschool "Solid Films and Surfaces"
28.06.-05.07.1998, Copenhagen, Denmark
-
268. "Small Deposited Metal Aggregates: Structure and Reactivity"
Summerschool "Solid Films and Surfaces"
28.06.-05.07.1998, Copenhagen, Denmark
-
269. "Desorption Dynamics from Oxide Surfaces"
Summerschool "Solid Films and Surfaces"
28.06.-05.07.1998, Copenhagen, Denmark
-
270. "Molecules on Clean and Modified Oxide Surfaces: Models for Heterogeneous Catalysts"
ICSFS-9, Plenarvortrag
06.-10.07.1998, Copenhagen, Denmark
-

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271. "Photodesorption from Clean and Metal Modified Oxide Surfaces"
IVC-14, Hauptvortrag, 01.09.1998
31.08.-04.09.1998, Birmingham, United Kingdom
-
272. "Deposited Metal Aggregates as Models for Heterogeneous Catalysis"
NATO-ASI
01.09.-13.09.1998, Cetraro, Italy
-
273. "Desorption Dynamics of Molecules from Oxide Surfaces"
NATO-ASI
01.09.-13.09.1998, Cetraro, Italy
-
274. "Thin Film Oxide Surfaces"
45th IFES
12.09.-18.09.1998, Irbid, Jordan
-
275. "Oxid-getragene Metallteilchen: Modellsysteme für die heterogene Katalyse"
Hauptvortrag Österreichische Physikalische Gesellschaft
16.09.1998, Graz, Österreich
-
276. "Adsorption and Reaction on Well Characterized Oxide Surfaces: Cr₂O₃(0001)"
9th International Conference on Vibrations at Surfaces
12.10.-16.10.98; Hayama, Japan
-
277. "CO₂ Adsorption and Reaction on Well Characterized Oxide Surfaces: Cr₂O₃(0001)"
9th International Conference on Vibrations at Surfaces
12.10.-15.10.98, Hayama, Japan
-
278. "Photodesorption Dynamics of Molecules"
Symp. On "Surfaces, Fields and Reactions", Shonan Village Center
16.10.1998, Shonan, Japan
-
279. "Oxid-getragene Metallteilchen: Modellsysteme für die heterogene Katalyse"
GDCH-Vortrag, T.U. Braunschweig,
26.10.1998, Braunschweig
-
280. "Metal Aggregates on Oxide Surfaces: Structure and Adsorption"
Autum School Berlin 1998, "Metal Clusters"
01.11.1998, Berlin
-
281. "Molecules on Oxide Surfaces: Structure and Dynamics"
Physikalisches Kolloquium, Universität Augsburg
09.11.1998, Augsburg
-
282. "Die Dynamik photochemischer Prozesse auf Oberflächen"
Physikalisches Kolloquium, Universität Cottbus
17.11.1998, Cottbus
-
283. "Bindungsbrüche auf Oberflächen: Moleküle in Bewegung"
Berlin-Brandenburgische Akademie der Wissenschaften
27.11.1998, Berlin
-
284. "Size Dependent Chemical Reactivity: Model Systems for Heterogeneous Catalysis"
Inorganic and Physical Chemistry Colloquium, University of Glasgow
04.12.1998, Glasgow, United Kingdom
-
285. "Photoinduced Bond Breaking on Oxide Surfaces"
University of Tokyo, Chemistry Department
12.02.1999, Tokyo, Japan
-
286. "Adsorption and Reaction on Small Deposited Metal Aggregates"
Symp. on "Frontiers in Electronically Induced Surface Processes"
Hayama Campus of the Graduate University of Advanced Studies
13.-14.02.99, Hayama, Japan
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287. "Model Systems in Heterogeneous Catalysis: A Surface Science Approach"
Symposium "Frontiers in Science", Hebräische Universität Jerusalem/T.U. Berlin
20.02.-26.02.1999, Berlin
-
288. "Molecules on Oxide and on Oxide Supported Metal Particles"
Gordon Conference
28.02.-05.03.1999, Ventura, USA
-
289. "Metal Clusters on Oxide Supports: Models to Study Size Selective Reactions"
Kolloquium, Harvard University
17.03.1999, Cambridge, USA
-
290. "Metal Aggregates on Ordered Oxide Surfaces: Structure, Adsorption and Reactivity"
ACS National Meeting and Exposition
21.-25.03.1999, Anaheim, California, USA
-
291. "Deposited Metal Aggregates, Models for Heterogeneous Catalysis"
Rideal Meeting
30.03.-01.04.1999, Rideal, United Kingdom
-
292. "Laser-induced Desorption from Oxide Surfaces: Experiment and Theory"
Seminar
26.04.1999, Ottawa, Canada
-
293. "Metal Aggregates on Oxide Supports: Structure and Reactivity"
Seminar
28.04.1999, Toronto, Canada
-
294. "Photochemistry at Surfaces: From Oxides to Metal Aggregates on Oxides"
Seminar
29.04.1999, Philadelphia, USA
-
295. "Size Dependent Reactivity of Deposited Metal Aggregates"
Workshop "Catalysis from first principles"
17.05.-19.05.1999, Copenhagen, Denmark
-
296. "Adsorption und Reaktion an kleinen deponierten Metallpartikeln"
07.06.1999, Innsbruck, Austria
-
297. "Die Dynamik der Molekül-Oberflächen-Bindung: Laserstimulierte Desorption von Oxidflächen"
GDCh-Vortrag, Gesamthochschule Wuppertal
09.06.1999, Wuppertal
-
298. "Molecules on Oxide Surfaces"
4th Paul Sabatier Conference,
05.07.-09.07.1999, Strasbourg, Belgium
-
299. "Dynamik desorbierender Moleküle"
Physik-Seminar, Universität Konstanz
09.07.1999, Konstanz
-
300. "Oxide Surfaces", Introductory Lecture
114. Faraday Discussion
01.09.-03.09.1999, Ambleside, United Kingdom
-
301. "Deposited Metal Aggregates: Models for Heterogeneous Catalysis"
ECOSS 18, Plenarvortrag
21.09.-24.09.1999, Vienna, Austria
-
302. "Deposited Nanoclusters: A model for Heterogeneous Catalysis"
Kolloquium "Frontiers in Nanoscale Chemistry and Biochemistry"
Forschungszentrum Karlsruhe
07.10.-08.10.1999, Karlsruhe
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303. "Modellsysteme für die Katalyse "
Ferienschule des Fritz-Haber-Instituts "Von der Einkristalloberfläche zum Katalysator"
11.10.-15.10.1999, Berlin
-
304. "Dynamik desorbierender Teilchen"
Physik-Kolloquium, Dortmund
12.10.1999, Dortmund
-
305. "Deposited Metal Aggregates: Models for Heterogeneous Catalysis"
Seminar, Leverhulme Centre for Innovative Catalysis
01.11.1999, Liverpool, United Kingdom
-
306. "Nanostrukturierte Metallteilchen: Von der Mikroskopie und Spektroskopie einzelner Cluster zur Katalyse"
Physikalisch-Chemisches Kolloquium, LMU München
24.11.1999, München
-
307. "Deposited Metal Clusters: Models for Heterogeneous Catalysis "
Kolloquium, Natal University
07.12.1999, Brazil
-
308. "Deposited Metal Clusters: Models for Heterogeneous Catalysis "
Seminar, Universidade Federal do Rio de Janeiro
09.12.1999, Rio de Janeiro, Brazil
-
309. "Electronic Structure and Chemistry at Complex Surfaces"
Search Conf. Mater. Science at the Volkswagen Foundation
14-16.12.1999, Schloß Etelsen
-
310. "Kleine getragene Metallpartikel auf Oxidoberflächen als Modellsysteme für heterogene Katalysatoren"
Kolloquium
14.01.2000, Hannover
-
311. "Wachstum und elektronische Struktur von Clustern auf Modellsubstraten"
Kolloquium
31.01.2000, Erlangen
-
312. "Deposited Metal Aggregates: Models for Heterogeneous Catalysts"
Seminar, RIKEN Institute
04.02.2000, Saitama, Japan
-
313. "Spectroscopy of Single Deposited Clusters and Cluster Ensembles in the near and far Fields: Photonemission STM and Cathode luminescence"
Surface Science Symposium
14.-18.03.2000, Kananaskis Valley, Canada
-
314. "Structure and Reactivity of Supported Metal Aggregates"
Special ACS-Symposium (Gabor Somorjai)
27.03.2000, San Francisco, USA
-
315. "Deposited Metal Clusters: Models for Heterogeneous Catalysts"
Univ. St. Andrews
05.04.2000, St. Andrews, Scotland
-
316. "Deposited Metal Aggregates: Well Defined Model Systems for Case Studies in Heterogeneous Catalysis"
Conference in honor of Jerzy Haber "Catalysis in XXI Century: From Quantum Chemistry to Industry"
04.05.-07.05.2000, Crakow, Poland
-
317. "Bridging the Materials and Pressure Gaps between Surface Science and Catalysis"
H. Topsøe
15.05.2000, Lyngby, Denmark
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318. "Modelle in der heterogenen Katalyse: Surface Science, Quo Vadis?"
GdCH-Kolloquiumsvortrag
25.05.2000, Oldenburg
-
319. "Bridging the Pressure and Materials Gaps between Catalysis and Surface Science: Clean and Modified Oxide Surfaces"
Symposium zum 70. Geburtstag von R. K. Grasselli
09.-10.06.2000, Irsee
-
320. "Deposited Metal Particles on Oxide Surfaces: Electronic Structure and Reactivity"
European Research Conference on Cluster Surface Interactions
24.06.-28.06.2000, Castelveccchio, Italy
-
321. "Brückenschlag in der Katalyse: Modellsysteme im Ultrahochvakuum und unter Druck"
GDCh-Vortrag
06.07.2000, Dresden
-
322. "Deposited Metal Aggregates: Bridging the Pressure and Materials Gap Between Surface Science and Catalysis"
CNRS
19.07.2000, Luminy, France
-
323. "Deposited Metal Aggregates: Electronic Structure and Reactivity"
Intern. Union of Mat. Res. Soc. 6th Intern. Conference in Asia
24.07.-26.07.2000, Hong Kong, China
-
324. "Model Catalysts Systems: What do we learn from Surface Science?"
Taylor Conference,
03.09.-07.09.2000, Liverpool, United Kingdom
-
325. "Small Deposited Metal Particles on Well-characterized Oxide Surfaces: Models for Heterogeneous Catalyst"
9. International Symposium on Heterogeneous Catalysis
23.09.-28.09.2000, Varna, Bulgaria
-
326. "Surface Science Experiments on Oxide Surfaces"
Workshop on „Oxide Based Systems at the Crossroads of Chemistry“
08.-11.10.2000, Como, Italy
-
327. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"
2000 Pauling Award Symposium, Western Washington University
21.10.-22.10.2000, Washington, Bellingham, USA
-
328. "Structure and Spectroscopy of Small Deposited Metal Particles: Model Systems for Heterogeneous Catalysis"
Asian Conference on X-rays and Related Techniques in Research and Industry
20.-22.11.2000, Kuala Lumpur, Malaysia
-
329. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"
Department of Chemistry, Universiti Malaya
23.11.2000, Kuala Lumpur, Malaysia
-
330. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"
School of Chemical Sciences, Universiti Kebangsaan Malaysia
28.11.2000, Bangi, Malaysia
-
331. "Model Catalyst Systems: What Do We Learn from Surface Science?"
General Colloquium, Arizona State University
14.12.2000, Tempe, USA
-
332. "Adsorption and Chemical Reactivity of Clean and Metal Modified Oxide Surfaces"
Invited Talk Symp. #108, Pacifichem 2000
14.-19.12.2000, Honolulu, Hawaii, USA
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333. "Electronic and Geometric Structure of Free and Adsorbate covered Deposited Clusters"
Invited Talk Symp. #215, Pacifichem 2000
14.-19.12.2000, Honolulu, Hawaii, USA
-
334. "Clusters on Oxide Surfaces: Electronic Structure and Reactivity"
Nonstructural Materials made from Self-assembled Molecules and Particles
08.-10.01.2001, Hindås, Sweden
-
335. "Vibrational Spectroscopy to Bridge the Pressure Gap Between Surface Science and Catalysis"
Kolloquium
12.01.2001, Torino, Italy
-
336. "Bridging the Materials and Pressure Gaps in Catalysis: Quo Vadis, Surface Science?"
IWOX2
15.-19.01.2001, Taos, New Mexico, USA
-
337. "Modellsysteme für den Brückenschlag: Von Oberflächen im Vakuum zur Katalyse"
GdCH-Vortrag (60. Geb. V. Staemmler)
25.01.2001, Bochum
-
338. "Inelastic Tunneling from Deposited Clusters"
27. IUVSTA Workshop on Dynamical Phenomena Related with Electrons at Surfaces
27.-31.01.2001, Kushiro, Japan
-
339. "Oxid-Oberflächen"
20. Rundgespräch
28.02.-02.03.2001, Bad Honnef
-
340. "Models in Heterogeneous Catalysis: Surface Science Quo vadis?"
3rd Brazilian-German Workshop on „Applied Surface Science“
05.03.-09.03.2001, Florianopolis, Brazil
-
341. "Models in Heterogeneous Catalysis: Surface Science Quo vadis?"
75th International Bunsen Discussion Meeting „Catalysis and Modelling of Heterogeneous Catalytic Processes“
12.03.-14.03.2001, Berlin
-
342. "Brückenschlag in der Katalyse: Modellsysteme unter Druck"
DECHEMA, Schwerpunkt-Kolloquium
15.03.2001, Frankfurt
-
343. "Surface Science and Catalysis: Quo Vadis?"
13th Interdisciplinary Surface Science Conference (ISSC-13)
02.04.-05.04.2001, London, United Kingdom
-
344. "Adsorption and Reaction on Gold Titania Model Systems"
Catalytic Gold - International Conference
02.-05.04.2001, Cape Town, South Africa
-
345. "Model Systems for Heterogeneous Catalysts: Bridging the Gaps Between Surface Science and Catalysis"
Ford Motor Company, Ford Research Laboratory
18.04.2001, Detroit, Michigan, USA
-
346. "Deposited Metal Particles as Models for Heterogeneous Catalysis From Individual Clusters to Cluster Ensembles"
Joint AVS-Michigan Catalysis Society Meeting
19.04.2001, Detroit, Michigan, USA
-
347. „Metals on Oxides“
Physics Department, Tulane University
20.04.01, New Orleans, USA
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348. "Bridging the Gaps from Basic Research to Applications: Surface Science vs. Catalysis"
Lecture, Academi Sains Malaysia
27.04.2001, Kuala Lumpur, Malaysia
-
349. "Fluorescence of Deposited Nanoclusters Using the STM"
Colloquium, National Academy of Science
19.05.2001, NAS Headquater, Washington D.C., USA
-
350. "Elektronische Struktur einzelner deponierter Metallcluster auf Oxidoberflächen"
Physik-Kolloquium zum 65. Geburtstag von Prof. H. Neddermeyer
07.06.2001, Halle
-
351. "Bridging the Gaps Between Catalysis and Surface Science"
3 Lectures under the General Title:
1. "General Concepts and Typical Results on Model Catalysts: Cluster on Oxide Surfaces"
2. "Properties of Cluster Ensembles and Individual Clusters"
3. "Studies of Reactivity of Model Catalysts in UHV and Under Ambient Conditions:
A Comparison Including Kinetic Studies"
Distinguished Visitor Lecture Series, UCI
12.06.2001, 14.06.2001, 20.06.2001, Irvine, USA
-
352. "Probing Physical and Chemical Properties of Deposited Clusters Using Single Cluster
Photon STM and Molecular Beams"
Seminar, Department of Chemistry, California Institute of Technology
22.06.2001, Pasadena, USA
-
353. "Model Systems for Catalysis: Quo vadis Surface Science?"
Kolloquium, Physics Department, Karls University
29.06.2001, Prag, Czech Republic
-
354. "Bridging the Materials and Pressure Gaps in Catalysis: Model Studies"
4th G.-M. Schwab Symposium, Dynamic Phenomena in Catalysis'
08.-12.07.2001, Berlin
-
355. "Modellsysteme für den Brückenschlag: Von Oberflächen im Vakuum zur Katalyse"
Universität Heidelberg,
17.07.2001, Heidelberg
-
356. "Metal Aggregates on Oxide Surfaces: From Cluster Ensembles to Single Clusters"
ASEVA Summer School Workshop 'Growth and Behaviour of Metal-Oxide Surfaces'
23.-26.07.2001, Avila, Spain
-
357. "Von Oberflächen im Vakuum zur Katalyse"
Kolloquium, MPI für Eisenforschung
21.08.2001, Düsseldorf
-
358. "Model Systems for Heterogeneous Catalysts"
American Chemical Society Meeting
26.08.-30.08.2001, Chicago, USA
-
359. "Bridging the Materials and Pressure Gaps Between Catalysis and Surface Science:
Clusters on Oxide Supports"
Europacat 5
02.-07.09.2001, Limerick, Irland
-
360. "Bridging the Gaps Between Catalysis and Surface Science"
3 Lectures under the General Title: in „Frontiers in Chemical Research“, Distinguished
Program 2000/2001, Texas A&M University
1. "General Concepts and Typical Results on Model Catalysts: Cluster on Oxide Surfaces"
2. "Chemical Reactions on Cluster Ensembles and Properties of Individual Clusters"
3. "Kinetic Studies on Model Catalysts in UHV and Ambient Conditions"
10.09.-13.09.2001, College Station, Texas, USA
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361. "Surface and Interface Analysis of Catalyst Model Systems in Ultrahigh Vacuum and under Pressure"
9th European Conference on Applications of Surface and Interface Analysis (ECASIA'01)
30.09.-05.10.2001, Avignon, France
-
362. "Deposited Metal Aggregates: Can Surface Science and Catalysis Merge?"
Invited talk, 450th Anniversary of the Universidad Nacional Autonoma de México
22.10.-23.10.2001, Mexico City, Mexico
-
363. "Deposited Metal Aggregates as Model Catalysts: Can Surface Science and Catalysis Merge?"
MESA-Colloquium, Twente University
06.11.2001, Twente, The Netherlands
-
364. "Model Systems for Catalysis: The Atomic Dimension"
Malaysian Conference on Catalysis, Universiti Putra Malaysia
12.11.-13.11.2001, Kuala Lumpur, Malaysia
-
365. "Modellsysteme für heterogene Katalysatoren: Die Brücke zu Surface Science"
GdCH-Vortrag, Universität Hamburg
22.11.2001, Hamburg
-
366. "Modellsysteme für die Katalyse: Die atomare Dimension"
GdCH-Vortrag, Universität Köln
23.11.2001, Köln
-
367. "Modelle für die Katalyse: Ethenhydrierung auf deponierten Pd-Nanoteilchen"
BASF Aktiengesellschaft Ludwigshafen
09.01.2002, Ludwigshafen
-
368. "Nanocluster auf Oberflächen: Struktur, Adsorption und Katalyse"
Ringvorlesung, TU Darmstadt
10.01.2002, Darmstadt
-
369. "Modelle für die Katalyse: Die atomare Dimension"
Hauptvortrag zum Tag der Chemie, RWTH Aachen
25.01.2002, Aachen
-
370. "Increasing Complexity: Oxide Clusters on Oxide Surfaces"
Workshop „Oxidic Interfaces“
15.02.-17.02.2002, Wittenberg
-
371. "Chemical Reactivity of Oxide Supported Metal Clusters"
Kick-off-Meeting of the COST D19/005/01 Working Group "Chemical Reactivity of Metal Oxide Nanoclusters"
15.03.-16.03.2002, Vienna, Austria
-
372. "Deposited Nanoclusters: Models for Heterogeneous Catalysts"
Seminar, Department Interfasechemie, Katholieke Universiteit Leuven
26.03.2002, Leuven, Belgium
-
373. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"
ACS National Meeting and Exposition, Symposium „Nanoscale Studies of Surface Science“
07.04.-11.04.2002, Orlando, USA
-
374. „Die Dynamik desorbierender Moleküle: Wie bricht eine Oberflächen-Molekül-Bindung?"
Festvortrag zum Abschied von G. Hohlneicher, Universität Köln
15.04.2002, Köln
-
375. "Basic Principles of X-ray Diffraction"
Lecture for COMBICAT-groups, University of Malaya
02.05.2002, Kuala Lumpur, Malaysia
-
376. "Basic Principles of Adsorption "
Lecture for COMBICAT-groups, University of Malaya
03.05.2002, Kuala Lumpur, Malaysia
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377. "Chemical Reactivity of Supported Metal Clusters"
Surface Science Canada 2002, University of Ottawa
13.05.-15.05.2002, Ottawa, Canada
-
378. "Reactivity of Clean and Metal Modified Oxide Surfaces: Model Systems for Heterogeneous Catalysis"
Euroconference „Fundamental Aspects of Surface Science“
01.06.-06.06.2002, Aquafredda di Maratea, Italy
-
379. "Oxide Clusters on Oxide Surfaces: Increasing Complexity in Model Systems"
Irsee II, Kloster Irsee
07.06.-09.06.2002, Irsee
-
380. "Model Systems for Catalysis: The Atomic Dimension"
Gordon Research Conference on Catalysis, Colby Sawyer College,
23.06.-28.06.2002, N.H., USA
-
381. "Catalysis and Surface Science: How to Bridge the Gap?"
4th Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT 4),
Plenary Lecture,
14.07.-19.07.2002, Tokyo, Japan
-
382. "Heterogenizing Homogeneous Catalysts: Ziegler-Natta-Catalysis of Ethene Polymerization as an Example of an in-situ Study"
National Institute of Advanced Industrial Science and Technology (AIST), Research Institute for Green Technology
18.07.2002, Tsukuba, Japan
-
383. "Nanostructures in Catalytic Environments"
1. "Heterogenizing Homogeneous Catalysts: Ziegler-Natta-Catalysis of Ethene Polymerization as an Example of an in-situ Study"
2. "Deposited Nanoclusters on Oxide Supports: The Atomic Dimension of Heterogeneous Catalysis"
2 Lectures under the General Title „Metal-Ligand-Interactions in Molecular, micro-, and macro-systems in complex environments“, NATO-Advanced Study Institute
01.09.-12.09.2002, Cetraro, Grand Hotel San Michele, Italy
-
384. "Complex Surfaces: From Clean Oxides to Nanomaterials and Real World Catalysts"
Advanced School on Material Science
01.09.-03.09.2002, Torino, Italy
-
385. "Modelsystems in Catalysis: The Atomic Dimension"
Perspectives and Prospects in Catalytic Sciences, The Royal Institution
03.09.-05.09.2002, London, United Kingdom
-
386. "Deposited Clusters on Oxide Supports: Catalysis and the Atomic Dimension"
International Symposium on Small Particles and Inorganic Clusters (ISSPIC) 11, Council of Europe
01.09.-13.09.2002, Strasbourg - Council of Europe, France
-
387. "Model Systems for Catalysis with Increasing Complexity"
Minerva School "Computational Quantum Chemistry", Schloß Blankensee
26.09.2002, Blankensee (Nähe Berlin)
-
388. "Chemical Reactivity of Metal Oxides and Deposited Nanostructures"
COST General Meeting, TU Wien
27.09.2002, Vienna, Austria
-
389. "Deposited Metal Nanoparticles as Model Catalysts: Can Surfaces Science and Catalysis Merge?"
William Draper Harkins Lecture, Department of Physics, University of Chicago
06.10.2002, Chicago, USA
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390. "Probing the Optical Properties of Individual Deposited Metal Particles with the Photon Emission STM"
Colloquium, James Frank Institute, University of Chicago
08.10.2002, Chicago, USA
-
391. "Model Systems for Catalysis with Increasing Complexity"
Workshop on "Interfacial Chemistry and Catalysis" (COST D15)
10.10.-13.10.2002, Ysermonde, Nieuwpoort, Belgium
-
392. "Deposited Clusters on Oxide Supports: Catalysis and the Atomic Dimension"
Kolloquium, Max-Born-Institut
16.10.2002, Berlin
-
393. "X-Ray Photoelectron Spectroscopy on Model Catalysts"
International Conference on X-Ray in Research and Industry (ICRXI-2002)
30.10.-31.10.2002, Kuala Lumpur, Malaysia
-
394. "Models for Heterogeneous Catalysts: The Atomic Dimension"
Symposium des Institut Universitaire de France
12.11.2002, Paris, France
-
395. Lectures at the Université Paul et Marie Curie, Laboratoire des Matériaux Microscopiques et Nanométriques
1. "Structure and Morphology of Deposited Metal Particles"
 2. "Electronic Structure of Ensembles and Individual Particles"
 3. "Adsorption and Reaction on Models for Heterogeneous Catalysis"
 4. "In-situ Experiments in Model Catalysts"
 5. "Towards Ultrafast Spectroscopy of Reactions at Surfaces"
- 13.-14.11.2002, Paris, France
-
396. "Model Systems in Catalysis: The Atomic Dimension"
Seminar, UF San Carlos
22.11.2002, San Carlos, Brazil
-
397. "Model Systems in Catalysis: The Atomic Dimension"
Colloquium, COPPE
26.11.2002, Rio de Janeiro, Brazil
-
398. "Deposited Metal Clusters: Models for Heterogeneous Catalysis"
Seminar, Institute of Physics, Lund University
04.12.2002, Lund, Sweden
-
399. "Modellsysteme für die Katalyse: Die atomare Dimension"
GdCh-Vortrag, Universität Kiel
05.12.2002, Kiel
-
400. "Vanadium Oxide Surfaces and Deposited Vanadium Oxide Clusters"
International Workshop on Oxide Surfaces (IWOX-3)
26.01.-31.01.2003, Sapporo, Japan
-
401. "Model Systems for Catalysis: The Atomic Dimension"
Surface Science Symposium, University of California at Riverside
13.02.-14.02.2003, Los Angeles, USA
-
402. "Adsorption and Reaction on Deposited Nanoclusters: Models for Heterogeneous Catalysts"
Inauguration of the Cracow Research Centre for Molecular Catalysis and Soft Matter Chemistry
31.03.-01.04.2003, Cracow, Poland
-
403. "STM and Photon-STM Investigations on Deposited Metal Aggregates"
2nd Latin American Symposium on Scanning Probe Microscopy
06.04.-09.04.2003, Buzios, Rio de Janeiro, Brazil
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404. "Surface Science and Catalysis: Quo Vadis?"
Workshop in honor of Prof. D. Menzel, TU München
28.04.2003, Garching
-
405. "Models for Heterogeneous Catalysts: Can Surface Science and Catalysis Merge?"
Kolloquium der Chemisch-Physikalischen Gesellschaft Wien
13.05.2003, Vienna, Austria
-
406. "Sites, Edges and Corners on Nanoclusters Deposited on Oxide Surfaces: Selectivity in Model Catalysis. - Models of Metal-oxide Catalysts and Inverse Catalysts -"
ESF Workshop
16.05.-18.05.2003, Brixen, Italy
-
407. "Chemistry on Deposited Nanostructures in Relation to Heterogeneous Catalysis"
Gordon Research Conference on Clusters, Nanocrystals and Nanostructures,
Connecticut College
03.08.-08.08.2003, New London, Connecticut, USA
-
408. "Atomic-scale Description and Control of Complex Surface Structures"
Symposium on "Molecular Design of New Catalysts and Nanoporous Materials by Self-Assembling & Combinatorial Methods", II. International ASTATPHYS-MEX-2003 Conference, Plenary Lecture, 25.08.-29.08.2003
29.08.2003, Puerto Vallarta, Mexico
-
409. "Selectivity and Sites of Reactions on Supported Nanoparticles"
COST Chemistry Working Group Meeting, Charles University
04.09.-06.09.2003, Prague, Czech Republic
-
410. "Clusters, Facets and Edges: Site Dependent Selective Chemistry on Model Catalysts"
ACS New York, Annual Meeting of the American Chemical Society, Symposium on "Chemistry on Size Selected Metal Clusters"
07.09.-11.09.2003, New York, USA
-
411. "Model Catalysts for Selective Oxidation: Preparation and Characterization"
ACS New York, Annual Meeting of the American Chemical Society, Symposium on "Selective Catalytic Oxidation: Fundamentals, Applications and Environmental Impact"
07.09.-11.09.2003, New York, USA
-
412. "Atomic Scale Description and Control of Complex Surface Structures"
1st Nanocat Summerschool "Highlights in Nanoscale Catalyst Design and Engineering"
14.09.-21.09.2003, Torino, Italy
-
413. "The Surface Chemistry of Catalysis by Gold"
Gold 2003
28.09.-01.10.2003, Vancouver, Canada
-
414. "Model Catalysts: Chemistry of Nanostructures at the Atomic Scale"
Opening Ceremony of the "Hebrew University Center for Nanoscience and Nanotechnology (HUCNN)", Hebrew University
03.11.-05.11.2003, Jerusalem, Israel
-
415. "Clusters, Facets and Edges: Site Dependent Selective Chemistry on Model Catalysts"
Symposium zu Ehren von Rudolf Zahradnik "Uncovering Elementary Steps in Catalysis. From the Isolated Molecule to the Bulk", Berlin-Brandenburgische Akademie der Wissenschaften
21.11.2003, Berlin
-
416. "NO Photodesorption from Oxides and Ag Nanoparticles Deposited on Oxides: REMPI and 2PPE Studies"
Symposium on Non-adiabatic Processes on Surfaces
11.01.-15.01.2004, Ein Gedi, Israel
-
417. "Deposited Nanoclusters and Catalysis"
Symposium zu Ehren von Klaus Heinz' 60. Geburtstag
16.01.2004, Erlangen
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418. "Ecken und Kanten: Nanoteilchen als Modellsysteme für die Katalyse"
Universität Magdeburg, GdCh-Vortrag
12.02.2004, Magdeburg
-
419. "Deposited Nanoparticles: Models for Heterogeneous Catalysts"
DPG-Tagung, Symp. „Functional Nanoparticles“
09.03.2004, Regensburg
-
420. "Model Catalytic Systems Under in-situ Conditions"
3rd San Louis Symposium on Surfaces, Interfaces and Catalysis
15.03.-19.03.2004, Mérida, Venezuela
-
421. "Model Catalysts for Selective Oxidations. Preparation and Characterization"
Symposium of the Collaborative Research Center 546 "Transition metal oxides - clusters, surfaces and solids - structure, dynamics and reactivity"
21.03.-24.03.2004, Berlin-Schmöckwitz
-
422. "Oxidation Catalysts: Model Studies"
Seminar, Nanocenter, University of Åarhus
25.04.2004, Åarhus, Denmark
-
423. "Nanoteilchen als Modellsysteme in der Katalyse"
Universität Rostock, Physikalisches Kolloquium
06.05.2004, Rostock
-
424. "Oxidation Catalysts: Model Studies"
COST-Meeting
13.05.2004, Magdeburg
-
425. "Model Catalysts: An Atomic View"
27th Annual Meeting of the Sociedade Brasileira de Quimica and the XXVI Congresso Latinoamericano de Quimica
30.05.-02.06.2004, Salvador, Brazil
-
426. "Clusters, Facets, Edges, and Corners: Chemistry on Nanoparticles"
I-ICTAC
25.06.-30.06.2004, Tropea, Italy
-
427. "Model Studies in Heterogeneous Catalysis"
Seminar, TU Berlin
21.06.2004, Berlin
-
428. "Clusters, Facets, Edges, and Corners: Chemistry on Nanoparticles"
228th ACS National Meeting and Exposition
22.08.-26.08.2004, Philadelphia, USA
-
429. "X-ray Photoelectron Spectroscopy of Model Systems for Heterogeneous Catalysis"
IXCRI-2004
15.09.-16.09.2004, Penang, Malaysia
-
430. "Deposited Nanoparticles: Structure and Chemistry"
Nordic Conference on Surface Science 5
22.09.-25.09.2004, Tampere, Finland
-
431. "Model Studies in Heterogeneous Catalysis at the Atomic Scale"
Magister Conference Series organized by the Research Center for Theoretical Chemistry (CeRQT) of the University of Barcelona
05.11.2004, Barcelona, Spain
-
432. "Ecken, Kanten und Facetten: Nanopartikel als Modellsysteme für die heterogene Katalyse"
GdCh-Vortrag in Erlangen zum 75 Geburtstag von G. Wedler
11.11.2004, Erlangen
-
433. "Transition Metal Oxide Surfaces and Deposited Oxide Clusters"
IWOX 4
03.01.-08.01.2005, Aussois, France
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434. "Ecken und Kanten: Ein atomarer Einblick in Nanoteilchen als Modellsysteme für die Katalyse"
GdCh-Vortrag, Universität Regensburg
10.01.2005, Regensburg
-
435. "Nanoparticles as Models for Heterogeneous Catalysts"
Gordon Research Conference on "Chemical Reactions at Surfaces"
13.02.-18.02.2005, Ventura, USA
-
436. "Model Catalysts: An Atomic View"
Winterschule über Verfahren zur Charakterisierung von Materialoberflächen
28.02.-01.03.2005, Bremen
-
437. "Modelcatalysts: An Attempt to Merge Surface Science and Catalysis"
Netherlands Catalysis and Chemistry Conference
07.03.-09.03.2005, Noorwijkerhout, The Netherlands
-
438. "Supported Metal Aggregates: Growth, Structure and Chemistry"
229th ACS National Meeting and Exposition, Symposium on "Growth and Catalysis of Metal Overlayers"
13.03.-17.03.2005, San Diego, USA
-
439. "Model Catalyst Studies on Fischer-Tropsch Materials"
229th ACS National Meeting and Exposition, Symposium on "Chemistry of Petroleum and Emerging Technologies"
13.03.-17.03.2005, San Diego, USA
-
440. "Model Studies in Heterogeneous Catalysis at the Atomic Level"
Rideal Conference on Chemistry and Catalysis
21.03.-23.03.2005, Glasgow, United Kingdom
-
441. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"
Instituto de Quimica, UNAM
13.04.2005, Mexico-City, Mexico
-
442. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"
Instituto de Investigaciones en Materiales, UNAM
12.04.-17.04.2005, Mexico-City, Mexico
-
443. "Clusters, Facets, Edges, and Corners: Chemistry on Nanoparticles"
Colloquium Cambridge University
03.05.-04.05.2005, Cambridge, United Kingdom
-
444. "Surfaces of Niobia and Vanadia"
Group 5 Meeting
19.05.-21.05.2005, Hancock/MA, USA
-
445. "Vibrational Spectra of Alumina and Silica Supported Vanadia Revisited: An Experimental and Theoretical Model Catalyst Study"
Irsee III, Kloster Irsee
10.06.-11.06.2005, Irsee
-
446. "Oxide Surfaces and Deposited Nanoparticles: Model catalysts at the Atomic Level"
Physical Chemistry Division of the Italian Chemical Society,
34th National Congress on Chemistry
22.06.-24.06.2005, Sienna, Italy
-
447. "Model Studies in Heterogeneous Catalysis"
ISSC 15
27.06.-30.06.2005, Cardiff, United Kingdom
-
448. Malcolm Dole Summer Lectures, Northwestern University
1. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"
2. "Oxide Surfaces"
3. "Photochemistry at Oxide Surfaces and on Nanoparticles"
26.07.-28.07.2005, Evanston, USA
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449. "Model Studies in Heterogeneous Catalysis at the Atomic Scale"
Langmuir Lecture, 230th ACS National Meeting and Exposition
30.08.-01.09.2005, Washington, USA
-
450. "Nanoparticles and Supports as Imaged with the STM"
EMAG-Nanoconference
31.08.-02.09.2005, Leeds, United Kingdom
-
451. "Models in Heterogeneous Catalysis at the Atomic Level"
11. International Conference on the Applications of Density Functional Theory in Chemistry and Physics
11.09.-15.09.2005, Genf, Switzerland
-
452. "Nanoparticles on Thin Film Oxides"
International Symposium on Nanoscale
24.09.-25.09.2005, Tokyo, Japan
-
453. "Model Studies on Oxidation Catalysts: Characterization and Reaction"
5th World Congress on Oxidation Catalysis: Plenary Talk
25.09.-30.09.2005, Sapporo, Japan
-
454. "Model Studies in Heterogeneous Catalysis"
National Meeting on Nano and Surface Science and Technologies
28.09.-30.09.2005, Beijing, China
-
455. "Atom-scale Description and Control of Complex Surface Studies"
Nanocat Summerschool "Highlights in Nano-Scale Catalyst Design and Engineering"
25.10.-27.10.2005, Villeurbanne, France
-
456. "Structure and Reactivity of Metal Clusters"
52nd AVS Meeting "Structure and Reactivity of Metal Clusters"
30.10.-04.11.2005, Boston, USA
-
457. "Investigation of Supported Nanoparticles at the Atomic Level"
Seminar, Physic Department, Helsinki Technical University
07.12.2005, Helsinki, Finland
-
458. "Metal Cluster on Oxides: From a Few Atoms to Big Naked and Ligand Stabilized Clusters"
2005 Pacifichem Conference
15.12.-20.12.2005, Hawaii, USA
-
459. "Catalytic Control at the Atomic Level: Deposited Nanoparticles"
2005 Pacifichem Conference
15.12.-20.12.2005, Hawaii, USA
-
460. "Model Catalysts"
Lecture Series in Heterogeneous Catalysis
06.01.2006, Berlin
-
461. "Nanoparticles on Oxides as Models for Heterogeneous Catalysts: An Atomic View"
10th International Symposium on Catalyst Deactivation
05.02.-08.02.2006, Berlin
-
462. "Investigation of Supported Nanoparticles at the Atomic Level"
4th Annual University of California Symposium on Surface Science and Its Applications
09.02.-10.02.2006, Berkeley, USA
-
463. „Modelle für die Heterogene Katalyse aus atomarer Sicht“
Graduiertenkolleg 894
24.02.2006, Freyburg an der Unstrut
-
464. "Electron Spin Resonance and Low Temperature-STM of Metal Atoms and Clusters on Single Crystal Surfaces"
Symposium on Surface Science 2006
05.03.-11.03. 2006, St. Christoph am Arlberg, Austria
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465. "Defects on Magnesium Oxide Surfaces: An STM and ESR Study"
APS March Meeting
13.03.-17.03. 2006, Baltimore, USA
-
466. "Modelle für heterogene Katalysatoren auf atomarer Basis: Kohlenwasserstoffhydrierung an Palladium und Palladiumhydrierungsnanoteilchen"
Kolloquium, BASF
29.03.2006, Ludwigshafen
-
467. "Catalytic Control at the Atomic Level: Deposited Nanoparticles"
VIIth National Chemical Physics Meeting
19.05.-20.05. 2006, Isparta, Turkey
-
468. "Die Entwicklung eines Europäischen Forschungsrats: Konzepte und Tendenzen"
Bundestagung zur EU-Forschungsförderung
21.06.-22.06.2006, Weimar
-
469. "Model Catalysts: An Atomic View"
Microscience 2006
27.06.-29.06.2006, London, United Kingdom
-
470. "Oxidgetragene Metallatome und Nanopartikel"
Vortrag an der Martin-Luther-Universität Halle-Wittenberg
06.07.2006, Halle/Saale
-
471. "Defects as Centers for Chemical Reactivity on Oxide Surfaces"
EURODIM 2006,
10.07.-14.07.2006, Milano, Italy
-
472. "From Atoms to Clusters as Models in Heterogeneous Catalysts"
Fifth Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT5)
23.07.-28.07.2006, Tokyo, Japan
-
473. "Atomare Einblicke in die Katalyse: Oxidgetragene Nanopartikel"
Geburtstagskolloquium Ibach-Lüth, FZ Jülich
11.08.06, Jülich
-
474. "Catalysis at the atomic scale"
Symposium to honor Bill Salaneck on the occasion of his 65th birthday
17.08.-19.08.2006, Linköping, Sweden
-
475. "Oxide Supported Nanoparticles: Models in Catalysis at Atomic Resolution"
XV International Material Research Congress
20.08.-24.08.2006, Cancun, Mexico
-
476. "Model Systems for Heterogeneous Catalysts at the Atomic Scale"
Symposium für Theoretische Chemie 2006
03.09.-06.09.2006, Erkner
-
477. "Deposited Nanoparticles as Model Systems for Heterogeneous Catalysts: Control at the Atomic Level"
ECOSS 24, Plenary
04.09.-08.09.2006, Paris, France
-
478. "Nanoparticles Supported on Thin Oxide Films"
ACS National Meeting and Exposition
10.09.-14.09.2006, San Francisco, USA
-
479. "Metal Atoms and Metal Nanoparticles on Oxide Surfaces"
Symposium honoring Gabor Somorjai at the ACS National Meeting and Exposition
10.09.-14.09.2006, San Francisco, USA
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480. "Models in Heterogeneous Catalysis: An Atomic View"
Seminar, Department of Chemistry, UFRGS
18.09.2006, Porto Alegre, Brazil
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481. "Oxide supported Nanoparticles: Models in Catalysis at Atomic Resolution"
XX SICat
17.09.-22.09.2006, Gramado, Brazil
-
482. "From Atoms to Particles: Metals on Oxide Films"
10th ISSP International Symposium on Nanoscience at Surfaces
09.10.-13.10.2006, Tokyo, Japan
-
483. "Model Systems in Heterogeneous Catalysis: An Atomic View"
5th International Conference on PEEM/LEEM
15.10.-19.10.2006, Himeji, Japan
-
484. "Die Entwicklung eines Europäischen Forschungsrats: Konzepte und Tendenzen"
Dies Academicus
04.11.2006, Erlangen
-
485. "Metal Atoms and Clusters on Oxide Surfaces: Recent Advances"
GRI Symposium on Cluster Science; Breakthrough Advances in Cluster Science
07.11.-09.11.2006, Nagoya, Japan
-
486. "Ultra-thin Film Oxides: Materials with Tailored Properties"
IXCRI 2006
29.11.06, Kuala Lumpur, Malaysia
-
487. "Model Systems for Heterogeneous Catalysts Based on Thin Oxide Films"
Workshop on Catalysis and Surface Science
13.12.-15.12.2006, Santa Barbara, USA
-
488. "Models for Heterogeneous Catalysts at the Atomic Level"
Centenary Lecture Tour, University College London
15. 01.2007, London, United Kingdom
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489. "Models for Heterogeneous Catalysts at the Atomic Scale"
Centenary Lecture Tour,
17.01.2007, Cardiff, United Kingdom
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490. "Oxide Supported Nanoclusters"
Centenary Lecture Tour,
19.01.2007, Nottingham, United Kingdom
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491. "Oxide Supported Nanoclusters"
Centenary Lecture Tour,
22.01.2007, Aberdeen, United Kingdom
-
492. "Oxide Supported Nanoclusters"
Centenary Lecture Tour,
24.01.2007, Manchester, United Kingdom
-
493. "Modelle für heterogene Katalysatoren: Atomare Einblicke"
GdCH-Kolloquium, Universität Köln
02.02.2007, Köln
-
494. "Thin Oxide Films as Model Supports for Heterogeneous Catalysts: An Atomic View"
Seminar, Chemistry Department, Lehigh University,
20.03.2007, Bethlehem, USA
-
495. „Oxide Supported Nanoclusters“
Spring Symposium of the Catalysis Society of New York,
21.03.2007, ExxonMobile Research Facility, New York, USA
-
496. „Model Systems in Heterogeneous Catalysis at the Atomic Level“
Seminar, Physics Department, Rutgers University,
22.03.2007, Piscataway, USA
-
497. "Bulk and Supported Catalysts: Selectivity at the Atomic Scale"
ACS National Meeting and Exposition, Symposium „Nanoscale Inorganic Catalysis“
25.03.-29.03.2007, Chicago, USA
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498. "The Surface Science of Metal and Oxide Catalysts: Model Systems at the Atomic Level", ACS National Meeting and Exposition, Gabor A. Somorjai Award Lecture
25.03.-29.03.2007, Chicago, USA
-
499. "Atom-Scale Description and Control of Complex Surface Structures"
Meeting in Honor of Prof. Francisco Nart
11.04.-13.04.2007, Sao Carlos, Brazil
-
500. "Models for Heterogeneous Catalysts: Preparation and Characterization"
4th San Luis Summer School on Surface, Interfaces and Catalysis
14.04.-16.04.2007, Cuernavaca, Mexico
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501. "From Atoms to Clusters: Models for Heterogeneous Catalysts"
4th San Luis Conference on Surface, Interfaces and Catalysis
16.04.-21.04.2007, Cuernavaca, Mexico
-
502. "Models for Heterogeneous Catalysts: Preparation and Characterization"
4th San Luis Conference and Summer School on Surface, Interfaces and Catalysis
14.04.-23.04.2007, Cuernavaca, Mexico
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503. "Deposited Nanoparticles: Models for Heterogeneous Catalysts at the Atomic Dimension"
Gastvortrag, Leopold-Franzens-Universität Innsbruck
30.04.2007, Innsbruck, Austria
-
504. "Deposited Nanoparticles: Models for Heterogeneous Catalysts at the Atomic Dimension"
Nanocatalysis Summer School
31.05.2007, Les Houche, France
-
505. "Models for Heterogeneous Catalysts: Preparation and Characterization"
Nanocatalysis Summer School
31.05.2007, Les Houche, France
-
506. "Model Systems in Heterogeneous Catalysis: Selectivity Studied at the Atomic Level"
Irsee IV
07.06.-10.06.2007, Irsee
-
507. "Models for Heterogeneous Catalysts: Preparation and Characterization"
NSF-PASI Workshop
Electronic States and Excitations on Nanostructures
11.06.-22.06.2007, Zacatecas, Mexico
-
508. "Models in Heterogeneous Catalysis at the Atomic Level"
NSF-PASI Workshop
Electronic States and Excitations on Nanostructures
11.06.-22.06.2007, Zacatecas, Mexico
-
509. "Modelle für die Heterogene Katalyse: atomare Einblicke"
Verleihung der Ehrendoktorwürde K. Wandelt, Universität Leipzig
Electronic States and Excitations on Nanostructures
15.06.2007, Leipzig
-
510. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"
International Bunsen Discussion Meeting
29.06.-30.06.2007, Heidelberg
-
511. "Metal Atoms and Model Clusters on Oxide Surfaces: Electronic Structure and Reactivity"
IVC17/ICSS13 and ICN+T 2007 Congress
02.07.-06.07.2007, Stockholm, Sweden
-
512. "Model Systems in Heterogeneous Catalysis: Selectivity Studied at the Atomic Level"
International Symposium on Relations Between Homogeneous and Heterogeneous Catalysis (ISHHC XIII)
16.07.-20.07.2007, Berkeley, USA
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513. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"
Colloquium, Department of Chemistry, University of California, Irvine
24.07.2007, Irvine, USA
-
514. "Models for Heterogeneous Catalysts: Preparation and Characterization"
Colloquium, Department of Chemistry, University of California, Irvine
03.08.07, Irvine, USA
-
515. "Photochemistry at Metal Nanoparticles"
Colloquium, Department of Chemistry, University of California, Irvine
09.08.07, Irvine USA
-
516. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"
Seminar, University of North Texas
27.07.2007, Denton, USA
-
517. "Reactions on Oxide-supported Nanoparticles"
Elementary Reactive Processes at Surfaces Conference, Donostia International Physics Center
31.08.-01.09.2007, Donostia-San Sebastian, Spain
-
518. "Structural and Reaction Studies on Transition Metal Oxide Aggregates"
Sfb Symposium "From Clusters to Catalysts – Transition Metals and Transition Metal Oxides"
18.10.-21.10.2007, Erkner
-
519. "Metal Atoms and Clusters on Oxide Surfaces: Electronic Structure and Reactivity"
Jyvaskyla Nanoscience Days
25.10.-26.10.2007, Jyvaskyla, Finland
-
520. "Models for Heterogeneous Catalysts at the Atomic Scale"
Centenary Lecture Tour, University of Southampton
21.11.2007, Southampton, United Kingdom
-
521. "Atome und Cluster auf Oxidoberflächen: Atomare Einblicke in die Katalyse"
GDCh Vortrag, Karlsruher Chemische Gesellschaft
29.11.2007, Karlsruhe
-
522. 1. "Nanoparticles on Oxide Surfaces: an Atomic View"
2. "Reactions on Model Systems for Heterogeneous Catalysts"
Kuwait University
18.02.-22.02.2008, Kuwait City, Kuwait
-
523. "Gold Atoms, Chains and Islands on Oxide Films: Looking at Orbitals and Counting Electrons"
APS March Meeting "Fundamental Issues in Catalysis"
10.03.-14.03.2008, New Orleans, USA
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524. 1. "Metal Atoms, Clusters, and Nanoparticles on Oxide Supports"
2. "Ultra-thin Film Oxides: Materials with Tailored Properties"
3. "Optical Properties and Photochemistry of Nanoparticles"
V. N. Ipatieff Lectureship 1, Northwestern University
15.03. – 28.03.2008, Chicago, USA
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525. "Supported Metal Clusters as Model for Heterogeneous Catalysts at the Atomic Scale"
2008 Invitational Lecture Series at UOP Technical Community Organization Honeywell Technology
18.03.2008, Des Plaines, USA
-
526. "Ultra-thin Oxide Films as Designable Model Catalysts"
Seminar
25.03.2008, Argonne National Laboratory, USA
-
527. "Interaction and Reaction of Hydrocarbons with Supported Nanoparticles"
Francisco Zaera's Arthur W. Adamson Award for Distinguished Service in the Advancement of Surface Chemistry
ACS National Meeting and Exposition
06.04.-10.04.2008, New Orleans, USA
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528. "Model Studies on Bulk Vanadia Surfaces and on Supported Vanadia Nanoscale Systems"
George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Symposium in Honor of Israel E. Wachs
ACS National Meeting and Exposition
06.04.-10.04.2008, New Orleans, USA
-
529. "Metallatome und Nanoteilchen auf dünnen Oxidfilmen: Systeme mit einstellbaren Eigenschaften"
Physikkolloquium, Universität Ilmenau
15.04.2008, Ilmenau
-
530. "Metal Atoms and Clusters on Thin Oxide Films: Systems with Designable Properties"
Physikalisches Institut Köln
22.04.2008, Köln
-
531. "Atomare Einblicke in die Katalyse"
Festveranstaltung aus Anlass des 60. Geburtstags von E. Umbach
09.05.2008, Karlsruhe
-
532. "Metal Atoms and Clusters as Model Systems with Designable Properties"
"Catalysis for Society"
11.05.-15.05.2008, Cracow, Poland
-
533. "From Atoms to Nanoparticles on Oxide Supports: An Atomic View at Structure-Chemistry Relations"
CERC3 Workshop "Surface Chemistry of Nanomaterials"
15.05.-16.05.2008, Vienna, Austria
-
534. "Metal Atoms and Clusters on Thin Oxide Films: Systems with Designable Properties"
Hassel Lecture
20.05.2008, Oslo, Norway
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535. "Chemistry on Supported Nanoparticles: Model Studies"
Hassel Seminar
21.05.2008, Oslo, Norway
-
536. "Atome und Cluster auf Oxidoberflächen: Atomare Einblicke in die Katalyse"
Universität Hannover, GDCh-Vortrag
22.05.2008, Hannover
-
537. "Ultra-thin Oxide Films as Designable Model Catalyst System"
Symposium in honour of Wyn Roberts
27.05.2008, Cardiff, United Kingdom
-
538. "Der wissenschaftliche Forschungsrat: Ein neues Instrument europäischer Forschungsförderung"
11. Steinheimer Gespräche des Fonds für den Hochschullehrernachwuchs
30.05.2008, Frankfurt am Main
-
539. "Hydrogen on and in Nanoparticles: Key to Catalytic Activity"
4th International Conference on X-rays and Related Techniques in Research and Industry (ICXRI 2008)
02.06.-06.06.2008, Kota Kinabalu, Sabah, Malaysia
-
540. "Metal Atoms and Clusters as Model Systems with Designable Properties"
Seminar, Department of Chemistry, Universiti Kebangsaan Malaysia
Research and Industry (ICXRI 2008)
05.06.-08.06.2008, Kuala Lumpur, Malaysia
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541. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"
NATO ARW "Self-Organization of Molecular Systems in Micro-, Nano, and Macro-Dimensions: From Water to Nanoparticles, to Nanotubes, to DNA and Proteins"
08.06.-12.06.2008, Kiev, Ukraine
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542. "From Atoms to Clusters: Models for Heterogeneous Catalysts"
3. Workshop on Nanoscale Physics and Devices, Yunnan University
03.07.-06.07.08, Kunming, China
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543. "Basic Research in Catalysis to sustain Energy Supply for the Future"
Catalysis Summit
07.07.2008, Sapporo, Japan
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544. "An Atomic View of Model Catalysts"
International Symposium on Creation and Control of Advanced Selective Catalysis as Celebration of the 50th Anniversary of Catalysis Society in Japan
08.07.-12.07.2008, Kyoto, Japan
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545. "Metal Atoms and Clusters on Oxide Surfaces with Designable Electronic Properties: Model Systems for Catalysis"
Catalysis as the Pivotal Technology for the Future Society , COEX Convention Center
14th International Congress on Catalysis
13.07.-18.07.2008, Seoul, South Korea
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546. "From Metal Atoms and Clusters to Nanoparticles on Oxide Surfaces: Model Systems for Heterogeneous Catalysis"
Lecture, University of Science and Technology of Hefei
19.07.-22.07.2008, Hefei, China
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547. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"
ECOSS-25
27.07.-01.08.2008, Liverpool, United Kingdom
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548. "From Supported Atoms to Nanoclusters: Surface Chemistry at the Nanoscale"
Grand Challenge for Catalysis Workshop
11.08.-15.08.2008, Santa Barbara, USA
-
549. "From Atoms to Nanoparticles Supported on Oxide Surfaces"
Annual Scientific Meeting, Center for Catalysis and Surface Science, Northwestern University
26.08.2008, Evanston, USA
-
550. "Catalytic Chemistry on and in Nanoparticles: Oxide Supported Model Systems"
Seminar Talk, Department of Chem. Engineering, University of Wisconsin
22.08.2008, Madison, USA
-
551. "Metal Atoms and Clusters on Oxide Surfaces"
"Free, coordinated and supported clusters: Bridging experiment and theory"
Conacyt – DFG Workshop
01.09.-07.09.2008, Mexico-City, Mexico
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552. "Surfaces of Functional Materials at the Atomic Level: Catalysis, a Case Study"
6th German-Brazilian Workshop
15.09.-19.09.2008, Titi-See, Neustadt
-
553. "Surface Science Models in Catalysis: An View at the Atomic Level"
Gallei Workshop, BASF Katalysetag
22.09.-23.09.2008, Ludwigshafen
-
554. "Reactivity Studies on Oxide Supported Metal Nanoparticles"
AVS 55th International Symposium
19.10.-24.10.2008, Boston, USA
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555. "The European Perspective: A Report from the ERC."
2nd Forum of the AvH International Advisory Board:
Strategies to Win the Best: German Approaches in International Perspectives
06.12.2008, Berlin
-
556. "Metal Atoms and Clusters on Oxide Surfaces: Surface Science Quo Vadis?"
Helmut Schwarz Birthday Symposium, GDCh
14.12.-16.12.2008, Stiftung Kloster Eberbach, Eltville
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557. "Heterogeneous Catalysis and Nanostructures"
Universite Libre de Bruxelles: Outstanding PhD formation day
20.01.2009, Bruxelles, Switzerland
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558. "Metal Nanoparticles on Oxide Surfaces: Models for Heterogeneous Catalysts at the Atomic Level"
Paul Scherrer Institut
22.01.2009, Villingen, Switzerland
-
559. "Surfaces of Functional Materials at the Atomic Level: Catalysis, a Case Study"
25th Annual Meeting of the Swiss User Group Surfaces and Interfaces
23.01.2009, Fribourg, Switzerland
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560. "Supported Metal and Oxide Nanoclusters: From Electronic Structure to Reactivity"
Max Planck-University of British Columbia Workshop, MPI for Solid State Research
17.02.-18.02.2009, Stuttgart
-
561. "Photoemission and Related Techniques"
COST Winter School "Methods to Characterize Oxide Surfaces"
23.02.-27.02.2009, Berlin
-
562. "From Atoms to Nanoparticles on Oxide Surfaces: Model Systems for Heterogeneous Catalysis"
WPI-AIMR 2009 Annual Workshop
02.03.-06.03.2009, Miyagi, Japan
-
563. "Methanol Oxidation over Vanadia: A Combined STM, TDS, XPS, IRAS Study"
22nd Symposium on Surface Science (3S)
08.03.-14.03.2009, St. Moritz, Switzerland
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564. "From Adsorbed Atoms to Supported Clusters: Experiments vs. Theory"
ACS National Meeting and Exposition, Symposium "The Convergence Between Theory and Experiment in Surface Chemistry and Heterogeneous Catalysis"
22.03.-26.03.2009, Salt Lake City, USA
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565. "Reactivity Studies on Oxide Supported Metal Nanoparticles"
CATL Symposium
22.03.2009, Salt Lake City, USA
-
566. "Heterogeneous Catalysis and Nanostructures"
Ehrenkolloquium Klaus Heinz, Universität Erlangen
15.05.2009, Erlangen
-
567. "Engineering Materials Surfaces at the Atomic Level: Catalysis, as a Case Study"
Bunsentagung
21.05.-23.05.2009, Köln
-
568. "Engineering Surfaces at the Atomic Level"
Lecture, Radboud University
08.06.2009, Nijmegen, The Netherlands
-
569. "Models for Heterogeneous Catalysts: Supported Nanoparticles at the Atomic Scale"
inGAP-NANOCAT summer school: "Nano designed-catalysts: from molecules to industrial processes"
21.06.-29.06.2009, Trondheim, Norway
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570. "Engineering Surfaces at the Atomic Level"
223rd ZhongGuanCun Forum of the Institute of Physics and The Chinese Physical Society
04.07.-08.07.2009, Beijing, China
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571. "Reactivity of Oxide Supported Nanoparticles at the Atomic Scale"
CINF Summer School 2009, Sandberg Gods (Estate)
23.08.-28.08.2009, Sønderborg, Denmark
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572. "Au Nanostructures and Their Interaction with Molecules"
ChinaNANO 2009
01.09.-03.09.2009, Peking, China
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573. "Oxide Supported Nanoparticles and its Reaction to Reactivity"
Conference "Nanostructures at Surfaces - Spectroscopy at the Atomic and Molecular Scale"
20.09.-25.09.2009, Monte Verità, Switzerland
-
574. "Effects of Plasmon Excitation on Photodesorption of Small Molecules from Supported Silver Nanoparticles"
11th International Conference on Electronic Spectroscopy and Structure (ICESS11)
06.10.-10.10.2009, Nara, Japan
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575. "The Electronic Structure of the Nanoparticle-oxide Interface"
ECASIA
19.10.-23.10.2009, Antalya, Turkey
-
576. "Nanostructure Materials Characterization Techniques and its Applications"
Course on Nanoscience and Nanotechnology of Nanostructural Materials, Chemical Engineering Department, Nucleo de Catálise, COPPE Univ. Federal Rio de Janeiro
09.11.-14.11.2009, Rio de Janeiro, Brazil
-
577. "Electronic Structure – Reaction Relations of Oxide Supported Nanoparticles at the Atomic Level"
7th International Symposium on Atomic Level Characterizations for New Materials and Devices '09
06.12.-11.12.2009, Maui, Hawaii, USA
-
578. "Engineering Surfaces at the Atomic Level"
Department of Physics and Astronomy, University of Hawai at Manoa
03.12.2009, Manoa, Hawaii, USA
-
579. "Cluster, Oxides, and Thin Films: Studies at the Atomic Level"
Meeting of the UCL Catalysis Centre
03.02.2010, London, United Kingdom
-
580. "Chemistry and Physics of Catalytic Surfaces"
Principles and Applications of Catalysis Meeting
17.02.-19.02.2010, Bad Honnef
-
581. "Controlling Chemical Reactivity Via Thin Oxide Films"
SFB 762 "Functionality of Oxide Interfaces", Kloster Irsee
01.03.-05.03.2010, Irsee
-
582. "Oxide Nanoparticles Supported on Oxide Supports: Structure-reactivity Relationship"
239 ACS National Meeting, Gabor A. Somorjai Award for Creative Research in Catalysis, Symposium in Honor of Robert J. Madix: "From Surface Science to Heterogeneous Catalysis"
21.03.-25.03.2010, San Francisco, USA
-
583. "Electronic Structure Relations of Oxide Supported nanoparticles at the Atomic Level"
FHI-CRC Joint Symposium
01.04. – 02.04.10, Sapporo, Japan
-
584. "Atom-Scale Description and Control of Complex Surface Structures"
San Louis V Summer School
09.-11.04.2010, São Pedro, Brazil
-
585. "Electronic Structure Relations of Oxide Supported Nanoparticles at the Atomic Level"
San Louis V Symposium
09.-11.04.2010, São Pedro, Brazil
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586. "Structure and Reactivity of Metal Particles Supported on Thin Oxide Films: Catalyst Model Systems at the Atomic Level"
Physikalisch-chemisches Kolloquium, Freie Universität Berlin
05.05.2010, Berlin
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587. "Elektronische Struktur und Reaktivität von getragenen Metallteilchen auf ultradünnen Oxidfilmen: Katalysator-Modellsysteme auf atomarem Niveau"
Physikalisch-Chemisches Kolloquium, FU Berlin
05.05.-06.05.2010, Berlin
-
588. "Can monolayer Oxide Films Promote Reactivity?"
5th Irsee Symposium on New Insights into Selective Heterogeneous Oxidation Catalysis, Kloster Irsee
10.06.-13.06.2010, Irsee
-
589. "Begutachtungs- und Entscheidungsprozesse im ERC"
IFG-Jahrestagung "Evaluation: New Balance of Power?"
15.06.2010, Berlin
-
590. "Supported Metal Particles: Electronic Structure, Reaction and Photochemistry"
SPIE Symposium
01.08.-05.08.2010, San Diego, USA
-
591. "Electronic Structure and Reactivity of Metals Supported on Thin Oxid Films: Catalyst Model Systems at the Atomic Level"
18th International Vacuum Congress
23.08.-27.08.2010, Beijing, China
-
592. "Atom-Scale Description and Control of Complex Surface Structures"
Lecture, Physical Chemistry Forum, College of Chemistry and Molecular Engineering
Beijing University
25.08.2010, Beijing, China
-
593. "Model Catalyst Design: A Perspective at the Atomic Level"
Plenary Lecture, 3rd EuCheMS Chemistry Congress
29.08.-02.09.2010, Nürnberg
-
594. "System Flexibility in Catalysis"
Workshop "Energy" und "Catalysis", 3rd EuCheMS Chemistry Congress
29.08.-02.09.2010, Nürnberg
-
595. "Funding of Chemistry within the European Research Council"
ERA-Chemistry Symposium
30.08.2010, Nürnberg
-
596. "Nanostructures in Catalysis at the Atomic Level"
Karlsruher Chemie Kongress
03.09. -04.09.2010, Karlsruhe
-
597. "Thin Oxide Films, Supported Oxide Nanoparticles and Their Reactivity"
Final Meeting COST Action D41
07.09.-09.09.2010, Torino, Italy
-
598. "From Atoms to Clusters Supported on Oxide Surfaces"
XV. ISSPIC
19.09.-24.09.2010, Oaxaca City, Mexico
-
599. "Electronic Structure Relations of Oxide Metal Interfaces at the Atomic Level"
Workshop "Passion for Interfaces"
27.09.-01.10.2010, Donostia-San Sebastian, Spain
-
600. "Electronic Structure and Reactivity of Metals Supported on Thin Oxide Films: Catalyst Model Systems at the Atomic Level"
University of Science and Technology
12.11.2010, Hefei, China
-
601. "Can Monolayer Oxide Films Promote Reactivity?"
Lecture, Dalian Institute of Chemical Physics, The Chinese Academy of Sciences
13.11.2010, Dalian, China
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602. "Model Catalyst Design and Characterization"
Evaluation Visit, Kuwait University
17.01.-19.01.2011, Kuwait-City, Kuwait
-
603. "Atom-scale Description and Control of Complex Surface Structures"
SFB 546-UniCat Workshop
20.02.-23.02.2011, Erkner
-
604. "Thin Oxide Films, Charge Transfer and Catalysis!"
G. B. Kistiakowsky Lecture, Harvard University
01.03.2011, Harvard, USA
-
605. "Models for Catalysts: Is There Anything New?"
"Ultrathin Films as Electronically Designable Catalyst Systems"
A.D. Little Lectures in Physical Chemistry, MIT, Cambridge
07.03.-08.03.2011, Cambridge, USA
-
606. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"
Symposium on Size Selected Clusters 2011, S3C
20.03.-25.03.2011, Davos, Switzerland
-
607. "Model Studies in Heterogeneous Catalysis: An Atomic View"
Frühjahrssymposium des GDCh, JungChemikerForum
23.03.-26.03.2011, Erlangen
-
608. "Structure-Activity Relations in Thin Oxide Film Systems"
141. ACS National Meeting and Exposition
FUEL, Division of Fuel Chemistry
27.03.-31.03.2011, Anaheim, USA
-
609. "Electronic States of Au on Oxide Surfaces"
CATL, Division of Catalysis Science and Technology
141. ACS National Meeting and Exposition
27.03.-31.03.2011, Anaheim, USA
-
610. "Metal Atoms and Clusters as Model Systems with Designable Properties"
Brazilian-German Workshop
03.04.-09.04.2011, Armacao de Buzios, Brazil
-
611. "Model Catalyst Design: A Perspective at the Atomic Level"
17th Rideal Conference
19.04.-21.04.2011, Cardiff, United Kingdom
-
612. "In-situ and Ex-situ Investigation of Ultrathin Oxide Films and their Chemical Reactivity"
2011 MRS Spring Meeting
25.04.-29.04.2011, San Francisco, USA
-
613. "Ultrathin Oxide Films in Catalysis: An Old Misconception?"
Wiener Physikalisches Kolloquium
02.05.2011, Vienna, Austria
-
614. "Der Europäische Forschungsrat: Fakten und Perspektiven"
Vortrag am Freiburg Institute for Advanced Studies (FRIAS)
12.05.2011, Freiburg
-
615. "Ultra-thin Film Oxides: Materials with Tailored Properties"
8th International Symposium on Atomic Level Characterization for New Materials
and Devices '11
22.05.-27.05.2011, Seoul, South Korea
-
616. "Model Cataly Design: A Perspective at the Atomic Level"
GdCh-Vortrag
07.07.2011, Konstanz
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617. "Photochemistry and Photodesorption from Oxide Supported Metal Nanoparticles"
Symposium on the Fundamentals of Photocatalysis
11.07.-13.07.2011, Hefei, China
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618. "Reactivity of Ultrathin Oxide Films"
University of Beijing
20.07.-23.07.2011, Beijing, China
-
619. "Adsorption and Reactivity of Molecules and Atoms on and in Supported Nanoparticles and Nanocrystals"
Gordon Research Conference 2011,
24.07.-29.07.2011, South Hadley, USA
-
620. "Oxide Surfaces: Geometric and Electronic Structure"
Goldschmidt Meeting
14.08.-19.08.2011, Prague, Czech Republic
-
621. "Ultrathin Oxide Films: The "Physics of Catalysis"
Seminar, School of Physics and Astronomy, University of Birmingham
05.10.2011, Birmingham, United Kingdom
-
622. "Die Zukunft des ERC aus der Sicht des Wissenschaftlichen Rates"
HRK Workshop
10.10.2011, Frankfurt
-
623. "From Adsorbed Atoms to Supported Clusters: Experiment vs. Theory"
International Symposium On Clusters and Nanostructures (ISCAN)
07.11.-10.11.2011, Richmond, Virginia, USA
-
624. "Thin Oxide films: The Expected and the Unexpected"
IWOX-VIII
15.01.-20.01.2012, Baqueira-Beret, Spain
-
625. "Model Catalysts: From Supports to Supported Nanoparticles"
Toyota Technology Institute
31.01.2012, Nagoya, Japan
-
626. "Electronics, Thermodynamics, and Kinetics of Supported Clusters"
3rd GRI Symposium on Cluster Science 'Functionality of Clusters' (GRIS III)
01.02.-03.02.2012, Nagoya, Japan
-
627. "Ultradünne Oxidschichten: Die "Physik" der Katalyse"
Wacker Chemie AG
17.02.2012, Burghausen
-
628. "Ultrathin Oxide Films Grown on Metals: New Thoughts on Catalytic Materials"
International Workshop on Advanced Materials (IWAM-2012)
19.02.-21.02.2012, Ras Al Khaimah, United Arab Emirates
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629. "Thin Oxides Films and the "Physics" of Catalysis: The Expected and the Unexpected"
University of California, Irvine
22.04.-24.03.2012, Irvine, USA
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630. "Ultra-thin Film Oxides: Materials with Tailored Properties"
ACS 2012 National Spring Meeting
24.03.-29.03.2012, San Diego, USA
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631. "Models in Catalysis: The Expected and the Unexpected"
Robert Bunsen-lecture
22.05.2012, Zurich, Switzerland
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632. "Model Catalyst Design: A Perspective at the Atomic Level"
Physikalisch Chemisches Kolloquium, Ludwig-Maximilians-Universität München
06.06.2012, Munich
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633. "Model in Heterogeneous Catalysis: What has been Learned?"
15. International Conference on Catalysis 2012, ICC 15
01.07.-06.07.2012, Munich
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634. "Model Catalyst Studies based on Thin Oxide Films"
16. International Conference on Solid Films and Surfaces, ICSFS 16
01.07.-06.07.2012, Genoa, Italy
-
635. "Ultrathin oxide films: the "physics" of catalysis"
2012 International Workshop on Nanomaterials and Nanodevices
09.07.-12.07.2012, Beijing, China
-
636. "Nanoparticles as models for heterogeneous catalysts: An atomic view"
2012 International Workshop on Nanomaterials and Nanodevices
09.07.-12.07.2012, Xining, China
-
637. "Modelle für heterogene Katalysatoren: Wie viel Komplexität ist notwendig?"
Klassensitzung Nordrhein-Westfälische Akademie der Wissenschaften und der Künste
25.07.2012, Düsseldorf
-
638. "Thin Films as Model Materials in Catalysis: A Perspective at the Atomic Level"
Faculty of Chemistry and Biochemistry, RUB
26.07.2012, Bochum
-
639. "Ultra-thin Film Oxides: Grown on Metals: Materials with Tailored Properties"
Symposium "Spectroscopy and Microscopy in Catalysis: The In Situ Age"
ACS National Meeting and Exposition
19.08.-23.08.2012, Philadelphia, USA
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640. "Three-dimensional Silicolites and Zeolites: A New Field for Surface Science"
Symposium "Progress in Electronic and Vibrational Spectroscopy of Catalytic Materials and Catalytic Reactions"
ACS National Meeting and Exposition
19.08.-23.08.2012, Philadelphia, USA
-
641. "Models in Catalysis: Synergy Between Experiment and Theory"
International Conference on Theory and Applications of Computational Chemistry, TACC 2012
02.09.-07.09.2012, Pavia, Italy
-
642. "The Surface Science of Supported Au Nanoparticles and its Relation to Catalysis"
The 6th International Conference on Gold Science Technology and its Application, Gold 2012
05.09.-08.09.2012, Tokyo, Japan
-
643. "Ultrathin Oxide Films: The Expected and the Unexpected"
Dinesh O. Shah Annual Lectureship in Surface Science, University of Florida, Chemical Engineering Department
11.10.2012, Gainesville, USA
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644. "Ultrathin Oxide Films: The Expected and the Unexpected"
Blaise Pascal Medal Award Ceremony, European Academy of Sciences
26.10.2012, Liege, Belgium
-
645. "Oxide Supported Nanoclusters"
Seminar, Particles and Catalysis Research Group, School of Chemical Sciences and Engineering, The University of New South Wales
29.01.2013, Sydney, Australia
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646. "Model Catalyst Design: A Material Science Perspective at the Atomic level"
Monash Chemical Society Lecture, Monash University
05.02.2013, Melbourne, Australia
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647. "Photochemistry and Photodesorption from oxide supported metal nanoparticles"
Seminar, Department of Chemistry, Otago University
07.02.2013, Dunedin, New Zealand
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648. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"
AMN-6 Conference
11.02.-15.02.2013 Auckland, New Zealand
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649. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"
Temple University
28.02.-28.02.2013, Philadelphia, USA
-
650. "Model Catalysts for Oxidation Reactions: Are Dopants in Simple Oxides relevant?"
Joint Meeting of UniCat and Northwestern University
18.-19.03.2013, Berlin, Germany
-
651. "Fundamental studies using surface science techniques"
Wilhelm und Else Heraeus-Seminar
24.03.-27.03.2013, Bad Honnef, Germany
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652. "Thin Films as Model Materials in Catalysis: A Perspective at the Atomic Level"
245th ACS National Meeting and Exposition
, Symposium in honor of Prof. Alex Bell
07.04.-11.04.2013, New Orleans, USA
-
653. "Ultra-thin Oxide Films as Designable Model Catalysts"
245th ACS National Meeting and Exposition, "Arthur W. Adamson Award"
07.04.-11.04.2013, New Orleans, USA
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654. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"
Cardiff Chemistry Conference 2013
13.05.-14.05.2013, Cardiff, United Kingdom
-
655. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"
10 Years CeNTech, CeNTech Day
05.06.-06.06.2013 Münster, Germany
-
656. "Oxygen activation on oxide surfaces"
7th World Congress on Oxidation Catalysis
08.06.-12.06.2013, Saint Louis, USA
-
657. "Model Catalysts Design: A Material Science Perspective at the Atomic Level"
NIMS Conference 2013
01.07.-03.07.2013, Tsukuba City, Japan
-
658. "Model Catalysts Design: A Material Science Perspective at the Atomic Level"
International Workshop on Nanomaterials and Nanodevices
02.07.-08.07.2013, Beijing, China
-
659. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"
Hayashi Conference: Next decades of Surface Science
16.07.-20.07.2013, Hayama, Japan
-
660. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"
Meeting on Catalysis
29.07.-02.08.2013, Telluride, USA
-
661. "Model Studies on Heterogeneous Catalysis at the Atomic Scale"
The 16th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis
04.08.-09.08.2013, Sapporo, Japan
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662. "From pure metal supported oxide films to two-dimensional zeolite films"
8. German-Brazilian Workshop
15.09.-20.09.2013, Bamberg, Germany
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663. "Model Catalyst Design: A Material Science Perspective at the Atomic level"
Lecture, University of Szeged, Institute of Chemistry
18.11.2013, Szeged, Hungary
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664. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"
ALC '13, 9th International Symposium on Atomic Level Characterizations for New Materials and Devices '13,
02.12.-06.12.2013, Kona, Hawaii, USA
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665. "Ultra-thin Oxide Films as Designable Model Catalysts"
Cardiff Catalysis Institute's Annual Conference,
06.01.-07.01.2014, Cardiff, United Kingdom
-
666. "Thin Oxide Films and the "Physics" of Catalysis: The Expected and the Unexpected"
Festkolloquium, 60. Geburtstag von Prof. Bernhard Dick, Universität Regensburg
17.01.2014, Regensburg, Germany
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667. "Model Catalyst Studies: From Supports to supported Nanoparticles"
Seminar, Department of Chemical Engineering, Carnegie Mellon University
23.01.2014, Pittsburgh, USA
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668. "Model Catalyst Design: A Materials Science Perspective at the Atomic Level"
47. Jahrestreffen Deutscher Katalytiker
12.03.-14.03.2014, Weimar, Germany
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669. "Structure and Spectroscopy of Clean and Modified CeO₂(111) surfaces"
ACS National Meeting and Exposition, Symposium "Thermodynamics, Reactivity, and Spectroscopy of the Heavy Elements"
16.03.-20.03.2014, Dallas, USA
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670. "Metal and Oxide Nanoparticles on Thin Oxide Film Supports"
ACS National Meeting and Exposition, Symposium "Clusters in Catalysis"
16.03.-20.03.2014, Dallas, USA
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671. "Influence of Buried Dopants on Surface Chemistry"
ACS National Meeting and Exposition, Symposium "Surface and Catalytic Reaction for Energy Efficiency"
16.03.-20.03.2014, Dallas, USA
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672. "From Supported Nanoparticles on Thin Oxide Films to Thin Glass and Thin Zeolites"
ACS National Meeting and Exposition, Symposium in Honor of Prof. Ted Oyama
16.03.-20.03.2014, Dallas, USA
-
673. "Model Systems for Heterogeneous Catalysts at the Atomic Level"
The Richard B. Bernstein Lectures, Department of Chemistry, University of Wisconsin-Madison, Chicago, IL, USA 24.03.-25.03.2014, Madison, USA
-
674. "Thin Oxide Films and the "Physics" of Catalysis"
The Richard B. Bernstein Lectures, Department of Chemistry, University of Wisconsin-Madison, Chicago, IL, USA 24.03.-25.03.2014, Madison, USA
-
675. "Spectroscopic Techniques in Surface Science"
Lecture, Centro Brasileiro de Pesquisas Físicas (CBPF)
22.04.2014, Rio de Janeiro, Brazil
-
676. "Model Systems in Heterogeneous Catalysis at the Atomic Level"
Colloquium, Centro Brasileiro de Pesquisas Físicas (CBPF)
24.04.2014, Rio de Janeiro, Brazil
-
677. "Thin Oxide Films and the "Physics" of Catalysis"
Colloquium, COPPE UFRJ
25.04.2014, Rio de Janeiro, Brazil
-
678. "Model Systems for Heterogeneous Catalysts at the Atomic Level"
Symposium "Functional Interfaces in Catalysis and Nanotechnology", Institut de Science et d'Ingénierie Supramoléculaires (ISIS)
12.05.2014, Strasbourg, France
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679. "Model Catalyst Design: an approach at the atomic level"
Centennial Shell Catalysis Conference 2014
20.-22.05.2014, Amsterdam, The Netherlands
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680. "A Fresh Look at an Old Nano-Technology: Catalysis"
113th General Assembly of the German Bunsen Society for Physical Chemistry
29.05.-31.05.2014, Hamburg, Germany
-
681. "Two dimensional silica: from crystal to glass"
ISOS XVII Berlin 2014, The 17th International Symposium on Silicon Chemistry
03.08.-08.08.2014, Berlin, Germany
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682. "Thin Oxide Films and the "Physics" of Catalysis"
ECOSS-30, 30th European Conference on Surface Science
31.08.-05.09.2014, Antalya, Turkey
-
683. "Silica thin films: from crystal to glass in two dimensions"
13th European Vacuum Conference
08.09.-12.09.2014, Aveiro, Portugal
-
684. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
25th anniversary of the Debye Institute for Nanomaterials Science
17.10.2014, Utrecht, The Netherlands
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685. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"
Inaugural Lecture, Chemical Section, Hungarian Academy of Sciences
21.10.2014, Budapest, Hungary
-
686. "Model Catalandyst Design: A Material Science Perspective at the Atomic Level"
CRC-SU Joint International Symposium on Chemical Theory for Complex Systems, Catalysis Research Center, Hokkaido University and Stockholm University
30.10.-31.10.2014, Stockholm, Sweden
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687. "Model catalysts: almost 20 years of fruitful exchange between theory and experiment"
Materials Science: Theory and Practice, Symposium in Honor of the 60th Birthday of Francesc Illas and Gianfranco Pacchioni
14.11.2014, Barcelona, Spain
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688. "Thin Oxide Films and the "Physics" of Catalysis"
Nanoscience Days of the University of Jyväskylä
20.11.-21.11.2014, Jyväskylä, Finland
-
689. "Model Systems in Catalysis for Energy Economy"
3rd International Symposium on Chemistry for Energy Conversion and Storage (ChemEner2015)
18.01.-21.01.2015, Berlin, Germany
-
690. "Modellstudien an Heterogen-Katalysator-Systemen auf atomarem Niveau"
10. LeLa-Jahrestagung „MINT in Schülerlaboren“
09.03.2015, Berlin, Germany
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691. "Model catalyst design: a material science perspective at the atomic level"
249th ACS National Meeting and Exposition, Symposium "Surface Chemistry and Catalysis on Oxides"
22.03.-26.03.2015, Denver, USA
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692. "Silica thin films: from crystals to glass in two dimensions"
249th ACS National Meeting and Exposition, Symposium in honor of Don Truhlar
22.03.-26.03.2015, Denver, USA
-
693. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"
Interdisciplinary Surface Science Conference (ISSC-20)
30.03.-02.04.2015, Birmingham, United Kingdom
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694. "Model Catalyst Support Design: Oxide Surfaces at the Atomic Level"
CECAM Workshop "Emergent structural and electronic phenomena at interfaces of nanoscale oxides"
08.-10.04.2015, Lausanne, Switzerland
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695. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
International FOXSI Workshop
11.-13.05.2015, Vienna, Austria
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696. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
24th North American Meeting (NAM) of the Catalysis Society
14.-19.06.2015, Pittsburgh, USA
-
697. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
Theory and Practice of Catalysis Workshop
06.-10.07.2015, Telluride, USA
-
698. "Structure and spectroscopy of clean and modified ceria surfaces"
250th ACS National Meeting and Exposition, Symposium "Advances in Ceria Based Catalysis: Structural, Electronic and Chemical Properties Tailored for Chemical Conversion"
16.-20.08.2015, Boston, USA
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699. "Structure-reactivity relationship in mixed metal oxides"
250th ACS National Meeting and Exposition, Symposium "Catalysis by Mixed Oxides"
16.-20.08.2015, Boston, USA
-
700. "Metal-Insulator-Metal (MIM) structures for CO₂ activation"
2015 UniCat / CCSS Joint Scientific Meeting
24.-25.08.2015, Evanston, USA
-
701. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
EuropaCat-XII: "Catalysis: Balancing the use of fossil and renewable resources"
30.08.-04.09.2015, Kazan, Russia
-
702. "Two dimensional silica: from crystal to glass"
Workshop on Layered Materials
15.-19.09.2015, Trest, Czech Republic
-
703. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
1st International Symposium of Institute for Catalysis - Global Collaboration in Catalysis Science toward Sustainable Society, Hokkaido University,
13.10.2015, Sapporo, Japan
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704. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
AVS 62nd International Symposium and Exhibition
18.-23.10.2015, San Jose, USA
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705. "Model Systems in Catalysis for Energy Economy"
10th International Symposium on Atomic Level Characterizations for New Materials and Devices '15, ALC'15
25.-30.10.2015, Matsue, Shimane, Japan
-
706. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
Seminar, Institute of Chemistry, The Hebrew University of Jerusalem
11.11.2015, Jerusalem, Israel
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707. "Model systems in catalysis for energy economy"
The International Chemical Congress of Pacific Basin Societies „Chemical Networking: Building Bridges Across the Pacific“ (Pacifichem)
15.-20.12.2015, Honolulu, USA
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708. "Doped oxides and the oxide-metal interfaces: reactivity at the molecular level"
10th International Workshop on Oxide Surface (IWOX-X)
10.-15.01.2016, Dalian, China
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709. "Models for Heterogeneous Catalysts: Surface and Subsurface Chemistry"
281st ZhongGuanCun Forum of the Institute of Physics and The Chinese Physical Society
12.01.2016, Beijing, China
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710. "Adsorption: Thermodynamics and Dynamics"
Lecture, Advanced Graduate School, Catalysis Research Center, Hokkaido University
13.-16.01.2016, Sapporo, Japan
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711. "Surface Characterization: Electron and Optical (IR) Spectroscopy"
Lecture, Advanced Graduate School, Catalysis Research Center, Hokkaido University
13.-16.01.2016, Sapporo, Japan
-
712. "Model Catalysts at the Atomic Level: from Structure (Geometric and Electronic) to Reactivity"
Lecture, Advanced Graduate School, Catalysis Research Center, Hokkaido University
13.-18.01.2016, Sapporo, Japan
-
713. "Models for Heterogeneous Catalysts: Surface and Subsurface Chemistry"
Lecture, School of Engineering, The University of Tokyo
18.01.2016, Tokyo, Japan
-
714. "Models for heterogeneous catalysts: an approach at the atomic level"
International Conference on „Concepts in catalysis: from heterogeneous to homogeneous and enzymatic catalysts"
25.-26.02.2016, Rome, Italy
-
715. "Oxide surface chemistry: from single crystals to supported particles"
Symposium Surface chemistry and catalysis of transition metal oxides, 251st American Chemical Society National Meeting & Exposition
13.-17.03.2016, San Diego, USA
-
716. "Metal-Insulator-Metal (MIM) structures for CO₂ activation"
Symposium on Novel Materials for Energy and Fuels, 251st American Chemical Society National Meeting & Exposition
13.-17.03.2016, San Diego, USA
-
717. "Thin film oxide systems for electron transfer control"
Symposium on Computational and Experimental Advances Towards Design of Energy Efficient Catalysts, 251st American Chemical Society National Meeting & Exposition
13.-17.03.2016, San Diego, USA
-
718. "Models for Heterogeneous Catalysts: an Approach at the Atomic Level"
Designing New Heterogeneous Catalysis, Faraday Discussion Meeting
04.-06.04.2016, London, United Kingdom
-
719. "A Metal-Insulator-Metal Electron Shuttle for CO₂ Activation"
9th Brazilian German Workshop
10.-15.04.2016, Maresias, Brazil
-
720. "Oxide surface chemistry: from single crystals to supported particles"
Lecture, CBPF
15.04.2016, Rio de Janeiro, Brazil
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721. "Models for Heterogeneous Catalysts: An Approach at the Atomic level"
Lecture, Universidade de São Paulo
20.04.2016, Sa Paulo, Brazil
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722. "Scanning Probe Investigations on Model Catalysts: Henning Neddermeyer's Legacy from our time in Bochum"
80 Years Anniversary of Henning Neddermeyer
07.06.2016, Halle, Germany
-
723. "Model Catalysts: Characterization and Function at the Atomic Scale"
Gordon Research Conference "Catalysis - From Theory to Commercialization"
12.-17.06.2016, New London, USA
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724. "Oxide film based metal-insulator-metal systems to control charge transfer and chemical reactivity"
IUVSTA Workshop "Structure of Ultra-Thin Films of Oxides on Metal Surfaces"
27.-30.06. 2016, Avila, Spain
-
725. "Oxide Surface Chemistry: From Single Crystals to Thin Films"
Special Seminar, Department of Chemistry, University of California, Irvine
11.08.2016, Irvine, USA
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726. "Model Systems in Catalysis at the Atomic Level: the Role of the Oxide-Metal Interface"
Special Seminar, Department of Chemistry, University of California, Berkeley
16.08.2016, Berkeley, USA
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727. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
Special Seminar, Department of Chemistry, University of California, Irvine
18.08.2016, Irvine, USA
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728. "Two Dimensional Silica: From Crystal to Glass"
Special Seminar, Department of Chemistry, University of California, Irvine
25.08.2016, Irvine, USA
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729. "Models for Heterogeneous Catalysts: Surface and Subsurface Chemistry"
20th International Vacuum Congress (IVC-20),
21.-26.08.2016, Busan, Korea
-
730. "The structure of oxide surfaces and its interaction with water"
4th Ertl Symposium on Chemical Processes on Solid Surfaces: "Water at Interfaces"
11.-13.10.2016, Berlin, Germany
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731. "Structure-reactivity relations through charge control at the atomic level in heterogeneous catalysis"
24th Solvay Conference on Chemistry: "Catalysis in Chemistry and Biology"
18.-22.10.2016, Brussels, Belgium
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732. "Model Systems in Heterogeneous Catalysis at the Atomic Scale"
Hamburg Photon Science Colloquium
04.11.2016, Hamburg, Germany
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733. "Surface science influenced by dopants"
AVS 63rd International Symposium and Exhibition, Celebrating a Life in Surface Science: A Symposium in Honor of John T. Yates, Jr.
06.-11.11.2016, Nashville, USA
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734. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"
GDCh Lecture
15.11.2016, Mülheim an der Ruhr, Germany
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735. "Models for heterogeneous catalysts: an approach at the atomic level"
Fundamental Research in Energy & Sustainability (FRESH) Colloquium
02.02.2017, Leiden Institute of Chemistry, The Netherlands
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736. "Developing concepts for reactive surface systems at the atomic scale in the realm of catalysis"
Gordon Research Conference "Defining the Next Generation Challenges in Surface Chemistry and Surface Science"
05.-10.02.2017, Lucca (Barga), Italy
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737. "Iron oxide, silica and modified silica and its interaction with water"
CRC 1109 Conference
19.-22.02.2017, Erkner, Germany
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738. "Model Systems in Heterogeneous Catalysis at the Atomic Level"
Annual Spring Conference of the German Physical Society (DPG)
19.-24.03.2017, Dresden, Germany
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739. "Structure-Reactivity Relations through Charge Control at the Atomic Level in Heterogeneous Catalysis"
Award Symposium in Honor of Prof. Cynthia Friend, 253rd ACS National Meeting & Exposition
02.-06.04.2017, San Francisco, USA
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740. "Model Systems in Heterogeneous Catalysis at the Atomic Scale"
Symposium "Elucidation of Mechanisms and Kinetics on Surfaces", 253rd ACS National Meeting & Exposition
02.-06.04.2017, San Francisco, USA
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741. "Controlling Silica in its Crystalline and Amorphous States: a Problem in Surface Science"
Presidential Symposium on "Holy Grails in Chemistry", 253rd ACS National Meeting & Exposition
02.-06.04.2017, San Francisco, USA
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742. "Model Systems in Heterogeneous Catalysis at the Atomic Level"
Seminar at Pacific Northwest National Laboratory
07.04.2017, Richland, USA
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743. "Model Systems in Heterogeneous Catalysis at the Atomic Level"
PSI Catalysis Seminar
18.05.2017, Villingen, Switzerland
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744. "The Surface Science of Catalysis and More: Using Ultrathin Oxide Films as Templates"
The Theory and Practice of Catalysis
10.06.2017, Telluride, USA
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745. "Model Systems in Heterogeneous Catalysis at the Atomic Level"
Hefei Forum of Great Minds
27.06.2017, Hefei, China
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746. "Charge Control in Model Catalysis: The decisive role of the Oxide - Nanoparticle Interface"
International Workshop on Nanomaterials and Nanodevices (IWNN)
04.07.2017, Beijing, China
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747. "The Surface Science of Catalysis and More: Using Ultrathin Oxide Films as Templates"
International Workshop on Nanomaterials and Nanodevices (IWNN)
07.07.2017, Xi'an, China
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748. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
XXV International Materials Research Congress
20.-25.08.2017, Cancun, Mexico
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749. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
XVI. Brazilian MRS Meeting
10.09.2017, Gramado, Brazil
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750. "Thin Oxide Films as Templates in Catalysis"
Workshop Surface Science Rio (WS2Rio)
06.11.2017, Rio de Janeiro, Brazil
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751. "The Surface Science of Catalysis and More, Using Ultrathin Oxide Films as Templates: A Perspective"
11th International Symposium on Atomic Level Characterizations for New Materials and Devices '17 (ALC'17)
03.12.2017, Hawaii, USA
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752. "Can single crystal model catalyst tell us about real powder catalysts?"
Workshop on Surface Science and Catalysis
23.01.2018, Hefei, China
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753. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
International Conference on Catalysis and Surface Chemistry
18.-23.03.2018, Kraków, Poland
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754. "Model Systems for Heterogeneous Catalysts at the Atomic Level"
Seminar, Institute of Physics
24.04.2018, Prague, Czech Republic
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755. "Engineering Surfaces at the Atomic Level"
43rd David M. Mason Lectures
07.05.2018, Stanford, USA
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756. "Adsorption on Oxide Surfaces and Supported Metal Particles"
Summer School, 6th San Luis Conference on Surfaces, Interfaces and Catalysis
02.-05.06.2018, Santa Fe, Argentina
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757. "Development of Instrumentation for, and Novel Concepts in Model Catalysis"
6th San Luis Conference on Surfaces, Interfaces and Catalysis
05.-08.06.2018, Santa Fe, Argentina
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758. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"
Lecture at Institute of Physics, University of Graz
19.06.2018, Graz, Austria
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