

PROF. ROBERTINO ZANONI

ISI Refereed Papers with IF, Book Chapters, Patents, University Textbooks

- 1. F.A. Devillanova, C. Furlani, G. Mattogno, G. Verani, R. Zanoni**
"XPS characterization of the coordinative bond formed by imidazolidine-2-thione ligands"
Gazzetta Chimica Italiana, 110, 19 (1980)
IF: ??
- 2. M.V. Andreocci, F.A. Devillanova, C. Furlani, G. Mattogno, G. Verani, R. Zanoni**
"Structural characterization of some substituted azolidine molecules: UPS photoelectron spectroscopy studies"
Journal of Molecular Structure, 69, 151 (1980)
IF: 1.753
- 3. M.V. Andreocci, M. Bossa, F.A. Devillanova, C. Furlani, G. Mattogno, G. Verani, R. Zanoni**
"Structural characterization of some substituted azolidine molecules: XPS photoelectron spectroscopy results"
Journal of Molecular Structure, 71, 227 (1981)
IF: 1.753
- 4. M. Bossa, C. Furlani, G. Mattogno, R. Zanoni**
"XPS binding energies and net atomic charges: CNDO, EHT and ab-initio correlations for substituted azolidines"
Gazzetta Chimica Italiana, 111, 1 (1981)
IF: ???
- 5. M.V. Andreocci, C. Furlani, G. Mattogno, R. Zanoni, F.A. Devillanova, G. Verani**
"An XPS investigation on some Selenium-containing ligands: azolidine derivatives"
Inorganica Chimica Acta, 51, 99 (1981)
IF: 2.002
- 6. C. Battistoni, G. Mattogno, L. Naldini, R. Zanoni**
"Characterization of some gold clusters by X-ray photoelectron spectroscopy"
Journal of Electron Spectroscopy and Related Phenomena, 28, 23 (1982)
IF: 1.661
- 7. F.A. Devillanova, G. Mattogno, R. Zanoni, P. Giannoccaro, G. Vasapollo**
"Ni(II) chromophores with the 2,6-bis(diphenylphosphinometil) pyridine ligand: XPS characterization of the electronic structure"
Inorganica Chimica Acta, 63, 25 (1982)
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- 8. C. Cauletti, R. Zanoni, W. Seidel**
"Tetramesityl transition element complexes: photoelectron spectroscopic characterization of the electronic structure of the Molybdenum (IV) and (V) derivatives"

Zeitschrift für Anorganische und Allgemeine Chemie, 496, 143 (1983)

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9. **G. Mattogno, R. Zanoni, D. Giusto, G. Russo, L. Sisti**

"XPS evidence for the formation of Ni(II) complexes on treated activated carbon"

Inorganica Chimica Acta, 104, 9 (1985)

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10. **V. Di Castro, G. Polzonetti, R. Zanoni**

"Photoemission study of two model catalysts using synchrotron radiation"

Surface Science, 162, 348-353 (1985)

DOI: 10.1016/0039-6028(85)90919-7

IF: 2.062

11. **R. Zanoni, V. Carinci, H. Abu-Samn, R. Psaro, C. Dossi**

"Osmium carbonyl clusters: XPS characterization of some catalyst precursors"

Journal of Molecular Structure, 131, 363 (1985)

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12. **M.N. Piancastelli, R. Zanoni, M.K. Kelly, D.G. Kilday, Y. Chang, J.T.**

McKinley, G. Margaritondo, P. Perfetti, C. Quaresima, M. Capozzi

"Thiophene on Si(111)2x1: synchrotron radiation study of a desulphurization process"

Solid State Communications, 63, 85 (1987)

DOI:10.1016/0038-1098(87)91171-9

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13. **C. Dossi, R. Psaro, R. Zanoni, F.S. Stone**

"Spectroscopic studies on silica-supported $\text{Os}_3(\text{CO})_{12}$ "

Spectrochimica Acta, Part A, 43, 1507 (1987)

IF: 2.536

14. **R. Zanoni, R. Psaro**

"In-situ XPS characterization of the species derived from supported Os carbonyls"

Spectrochimica Acta, Part A, 43, 1497 (1987)

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15. **R. Zanoni, Y. Chang, M. Tang, Y. Hwu, M. Onellion, G. Margaritondo, P.A.**

Morris, W.A. Bonner, J.M. Tarascon

"Soft-X-ray photoemission study of the electronic structure of $\text{Bi}_4\text{Ca}_3\text{Sr}_3\text{Cu}_4\text{O}_{16+x}$ "

Physical Review B 38, 11832 (1988)

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16. **C. Cauletti, L. Sestili, R. Zanoni**

"An XPS investigation of pentatomic heterocyclic ligands containing N, O and S and their Cu complexes"

Inorganica Chimica Acta, 147, 237 (1988)

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17. **M.N. Piancastelli, R. Zanoni, M.K. Kelly, D.G. Kilday, Y. Chang, J.T.**

McKinley, G. Margaritondo, C. Quaresima, M. Capozzi, P. Perfetti

"Reactivity of organic molecules on amorphous Si and Ge films"
Journal of Vacuum Science and Technology, A6, 762 (1988)
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18. **C. Dossi, A. Fusi, E. Grilli, R. Psaro, R. Ugo, R. Zanoni**
"FTIR, XPS and TPD studies on the thermal decomposition of triosmiumdodecacarbonyl on silica: a multitechnique approach to the resolution of some controversial problems"
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19. **D.W. Niles, M. Tang, J.T. McKinley, R. Zanoni, G. Margaritondo**
"Schottky-like correction terms in heterojunctions band lineups"
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20. **R. Zanoni, T. Boschi, S. Licocchia, R. Paolesse, P. Tagliatesta**
"An XPS study of Rh and Co derivatives of tetrapyrrole macrocycles"
Inorganica Chimica Acta, 145, 175 (1988)
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21. **N.G. Stoffel, P.A. Morris, W.A. Bonner, Y. Chang, M. Tang, R. Zanoni, L. Döttl, Qi Biao Chen, R. Joynt, D.L. Huber, M. Onellion, G. Margaritondo**
"Cleaved single crystals of high-Tc superconductors: electron spectroscopy and electron diffraction studies"
Surface Science 211/212, 1123 (1989)
DOI:10.1016/0039-6028(89)90883-2
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22. **Y. Chang, M. Tang, R. Zanoni, M. Onellion, R. Joynt, D.L. Huber, G. Margaritondo, P.A. Morris, W.A. Bonner, J.M. Tarascon, N.G. Stoffel**
"Theoretical and experimental analysis of the superconducting transition effects on the Fermi edge photoemission spectra"
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23. **D.W. Niles, M. Tang, J. McKinley, R. Zanoni, G. Margaritondo**
"From heterojunctions to Schottky barriers"
Journal of Vacuum Science and Technology, A7, part II, 2464 (1989)
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24. **D.W. Niles, M. Tang, J. McKinley, R. Zanoni, G. Margaritondo**
"From heterojunction interfaces to metal-semiconductor interfaces"
Applied Surface Science, 41/42, 139 (1989)
[http://dx.doi.org/10.1016/0169-4332\(89\)90046-9](http://dx.doi.org/10.1016/0169-4332(89)90046-9)
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25. **D. Mao, K. Young, A. Kahn, R. Zanoni, J.T. McKinley, G. Margaritondo**

"Photoemission-study of CaF₂-GaAs(110) and SrF₂-GaAs(110) interfaces formed at room-temperature"
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26. **R. Zanoni, M.N. Piancastelli, J. McKinley, G. Margaritondo**
"Synchrotron-radiation-induced metal deposition on semiconductors: Mo(CO)₆ on Si(111)2x1"
Applied Physics Letters 55, 1020 (1989)
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27. **Y. Chang, M. Tang, R. Zanoni, M. Onellion, R. Joynt, D.L. Huber, G. Margaritondo**
Comment on "High resolution photoemission study of the low energy excitations reflecting the superconducting state of Bi-Sr-Ca-Cu-O single crystals"
Physical Review Letters, 63, 101 (1989)
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28. **M.N. Piancastelli, R. Zanoni, D.W. Niles, G. Margaritondo**
"Ethylene and acetylene adsorption on cleaved Si: a photoemission study with synchrotron radiation"
Solid State Communications, 72, 635 (1989)
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29. **G. Carturan, S. Enzo, R. Ganzerla, M. Lenarda, R. Zanoni**
"Role of solid state structure in propene hydrogenation with Nickel catalysts"
Journal of the Chemical Society, Faraday Transactions I, 86, 739 (1990)
IF: 4.123 (Phys Chem Chem Phys)

30. **R. Zanoni, M.N. Piancastelli, J. McKinley, G. Margaritondo**
"Mo(CO)₆ on Si(111)2x1: a synchrotron radiation-excited photoemission study"
Physica Scripta 41, 636 (1990)
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31. **C. Dossi, A. Fusi, E. Grilli, R. Psaro, R. Ugo, R. Zanoni**
"A molecular approach to heterogeneous catalysis. part 2. Isomerization at 115°C of but-1-ene catalyzed by silica-anchored osmium carbonyls"
Journal of Catalysis, 123, 181 (1990)
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32. **R. Thiel, M. Dirken, R. Zanoni**
"A reexamination of the I.S. results for the cluster compound Au₅₅(PPh₃)₁₂Cl₆"
Hyperfine Interactions, 56, 1729-1732 (1990)
DOI: 10.1007/BF02405503
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33. **R. Zanoni, J. Puga**
"Tetraosmium carbonyl clusters: an XPS study of valence and core levels"
Journal of Molecular Structure, 240, 89 (1990)

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34. **M.N. Piancastelli, R. Zanoni, G. Margaritondo**

"Reactivity of amorphous silicon with respect to organic molecules: a synchrotron radiation photoemission study"

Rendiconti Accademia Nazionale dei Lincei, Serie 9, Vol 1, fasc. 3, 291 (1990)

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35. **M.N. Piancastelli, R. Zanoni, J.T. McKinley, G. Margaritondo**

"Low-temperature pyridine adsorption on cleaved silicon: a synchrotron radiation photoemission study"

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36. **R. Zanoni, M. N. Piancastelli, M. Marsi, G. Margaritondo**

"Silicon metallization by synchrotron-radiation-induced $W(CO)_6$ surface reaction"

Solid State Communications, 76, 1239 (1990)

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37. **R. Zanoni, R. Psaro, C. Dossi, L. Garlaschelli, R Della Pergola**

" XPS characterization of SiO_2 -supported iridium produced *in situ* from $Ir_4(CO)_{12}$ "

Journal of Cluster Science, 1, 241-247 (1990)

DOI: 10.1007/BF00702743

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38. **R. Zanoni, M. N. Piancastelli, M. Marsi, G. Margaritondo**

"Synchrotron-radiation-stimulated tungsten deposition on silicon from $W(CO)_6$ "

Journal of Vacuum Science and Technology A9, 931-934 (1991)

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39. **M. N. Piancastelli, R. Zanoni, M. Marsi, G. Margaritondo**

"Chemisorption and physisorption of simple alcohols on cleaved silicon"

Solid State Communications 79, 13 (1991)

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40. **R. Zanoni, M. N. Piancastelli, M. Marsi, G. Margaritondo**

"Organometallics adsorption on semiconductors: a synchrotron radiation photoemission study of ferrocene and nickelocene on $Si(111)2 \times 1$ "

Journal of Electron Spectroscopy and Related Phenomena, 57, 199 (1991)

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41. **A. Filipponi, A. De Cicco, R. Zanoni, M. Bellatreccia, V. Sessa, C. Dossi, R. Psaro**

"Multiple-scattering analysis of the X-ray absorption spectrum of $Os_3(CO)_{12}$ carbonyl cluster"

Chemical Physics Letters, 184, 485 (1991)

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42. **R. Zanoni, M. N. Piancastelli, X. Jin, F. Sirotti, G. Rossi**

"A soft-X-ray photoemission study of iron deposition on Si(111)2x1 by synchrotron radiation-excited photodecomposition of adsorbed Fe(CO)₅"

Applied Surface Science, 56-58, 474 (1992)

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43. G. Gusmano, G. Montesperelli, E. Traversa, R. Zanoni

"Investigation into the relationship between the corrosion behaviour of CN 108 alloy in sea water and the chemical composition of its corrosion products"

Werkstoffe und Korrosion, 43, 154-160 (1992)

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"X-Ray Photoelectron-Spectroscopy Investigation of Corrosion Behavior Of ASTM C71640 Copper- Nickel Alloy In Seawater

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45. F. Bonomi, F. Cariati, G. Crisponi, F. Cristiani, A. Diaz, S. Pagani, A. Pozzi, R. Zanoni

"Synthesis and characterization of metal derivatives of dihydrolipoic acid and dihydrolipoamide"

Inorganica Chimica Acta, 192, 237 (1992)

IF: 2.002

46. F. Bonomi, F. Cariati, G. Crisponi, F. Cristiani, V. Nurchi, S. Pagani, A. Pozzi, V. Russo, R. Zanoni

"Synthesis and characterization of iron derivatives of dihydrolipoic acid and dihydrolipoamide"

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IF: 2.002

47. M. Lenarda, R. Ganzerla, L. Storaro, A. Trovarelli, R. Zanoni, J. Kaspar

"Vapour phase hydroformylation of ethylene and propene catalyzed by a rhodium containing aluminum pillared smectite clay"

Journal of Molecular Catalysis, 72, 75-84 (1992)

DOI: 10.1016/0304-5102(92)80032-C

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48. R. Psaro, C. Dossi, A. Fusi, R. Della Pergola, L. Garlaschelli, D. Roberto, R. Ugo, R. Zanoni

"Surface organometallic chemistry: physisorption and thermal decomposition of Ir₄(CO)₁₂ on silica"

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49. M. Lenarda, R. Ganzerla, L. Storaro, R. Zanoni

"Catalysis by the Rh/B system. Part 1. Vapour phase hydroformylation of ethylene at atmospheric pressure on Rh/B on silica"

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50. **M. Lenarda, R. Ganzerla, L. Storaro, R. Zanoni**
"Catalysis by the Rh/B system. Part 2. Highly regioselective vapour phase hydroformylation of propene at atmospheric pressure on Rh/B on silica and silica-alumina"
Journal of Molecular Catalysis, 79, 243-251 (1993)
DOI:10.1016/0304-5102(93)85105-3
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51. **M. Lenarda, R. Ganzerla, S. Enzo, L. Storaro, R. Zanoni**
"Vapour phase propene hydroformylation catalyzed by the Rh/Al system on silica"
Journal of Molecular Catalysis, 80, 105 (1993)
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52. **R.C. Thiel, R.E. Benfield, R. Zanoni, H.H.A. Smit, M.W. Dirken**
"The physical properties of the metal cluster compound $\text{Au}_{55}(\text{PPh}_3)_{12}\text{Cl}_6$ "
Structure and Bonding, 81, 1 (1993)
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"Electronic structure and bonding of the metal cluster compound $\text{Au}_{55}(\text{PPh}_3)_{12}\text{Cl}_6$ "
Zeitschrift für Physik D 26, 162 (1993)
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54. **C. Dossi, R. Psaro, A. Fusi, A. Bartsch, L. Sordelli, R. Ugo, M. Bellatreccia, R. Zanoni, G. Vlaic**
"Chemical Vapour Deposition (CVD) of Pt hexafluoroacetylacetonate inside KL zeolite: a new route to non-acidic platinum-in-zeolite catalysts"
Journal of Catalysis, 145, 377 (1994)
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55. **R. Zanoni, M. N. Piancastelli, M. Marsi, G. Margaritondo**
"Organometallics on silicon: a synchrotron radiation photoemission study of the adsorption of iron pentacarbonyl on Si(111) surfaces with different reconstructions"
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56. **M. N. Piancastelli, R. Zanoni, J. Bonnet, K. Hricovini**
"Benzene adsorption on Silicon(111) surfaces with different reconstructions: a comparative study by synchrotron radiation photoemission"
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57. **R. Zanoni, G. Righini, A. Montenero, G. Gnappi, G. Montesperelli, E. Traversa, G. Gusmano**
"XPS analysis of sol-gel processed doped and undoped TiO_2 films for sensors"
Surface and Interface Analysis 22, 376 (1994)
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58. **M. Lenarda, R. Ganzerla, L. Storaro, S. Enzo, R. Zanoni**
"Bifunctional catalysts from pillared clays: vapour phase conversion of propene to acetone catalyzed by iron and ruthenium containing aluminum pillared bentonites"
Journal of Molecular Catalysis, 92, 201 (1994)

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59. D. Cauzzi, G. Predieri, A. Tiripicchio, R. Zanoni, C. Giori

"Formation of an anchored Copper(II) complex on a thiourea-functionalized silica gel by *in situ* modification of the tethered ligating function"

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60. R. Psaro, C. Dossi, R. Della Pergola, L. Garlaschelli, S. Calmotti, S. Marengo, M. Bellatreccia, R. Zanoni

"Methanol from synthesis gas over cluster-derived FeIr/MgO catalysts"

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61. D. Cauzzi, M. Lanfranchi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa, R. Zanoni

"Anchoring rhodium(I) on a benzoylthiourea-functionalized silica xerogel. Production of a recyclable hydroformylation catalyst and crystal structure of the model compound [Rh(cod)(Hbztu)Cl]"

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62. R. Zanoni, G. Righini, A. Montenero, G. Gnappi, Bearzotti, G. Montesperelli, E. Traversa

"Surface composition of alkali doped TiO₂ films for sensors investigated by XPS"

Sensors and Actuators B25, 886 (1995)

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63. M. Bellatreccia, R. Zanoni, C. Dossi, R. Psaro, S. Recchia, G. Vlaic

"In situ EXAFS investigation of non acidic CVD-based Pt/KL catalyst under oxidation-reduction cycles"

Journal of the Chemical Society, Faraday Transactions 91, 2045 (1995)

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64. L. Storaro, R. Ganzerla, M. Lenarda, R. Zanoni

"Vapour phase deep oxidation of chlorinated hydrocarbons catalyzed by pillared bentonites"

Journal of Molecular Catalysis, 97, 139 (1995)

IF: 4.211

65. D. Cauzzi, G. Marzolini, G. Predieri, A. Tiripicchio, M. Costa, G. Salviati, A. Armigliato, L. Basini, R. Zanoni

"Sulfur ligand stabilized palladium aggregates produced on the surface of benzoylthiourea-functionalized silica xerogels"

Journal of Materials Chemistry, 5, 1375 (1995)

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66. M. Carbone, R. Zanoni, M.N. Piancastelli, G. Comtet, G. Dujardin, L. Hellner, A. Mayne

"Adsorption of ethylene on Si(111)7x7 by synchrotron radiation photoemission"

Journal of Electron Spectroscopy and Related Phenomena, 76, 271 (1995)

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67. **R. Zanoni, M.N. Piancastelli, M. De Santis, F. Sirotti, G. Rossi**
"Synchrotron radiation-induced Fe deposition on Si from organometallic precursors: comparison with Fe silicides obtained by solid-phase epitaxy"
Journal of Electron Spectroscopy and Related Phenomena, 76, 437 (1995)
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68. **D. van der Putten and R. Zanoni**
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69. **D. van der Putten, D. Olevano, R. Zanoni, H. Krautscheid and D. Fenske**
"Photoemission from large-nuclearity copper-selenide clusters"
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70. **D. van der Putten, D. Olevano, R. Zanoni, H. Krautscheid and D. Fenske**
"Copper-selenide nanoparticles and Cu₂Se bulk phase studied by X-ray photoemission spectroscopy"
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71. **D. van der Putten and R. Zanoni**
"Angle-resolved XPS on small metal particles: local polarization and valence hole-state localization in the cluster compound Au₅₅(PR₃)₁₂Cl₆"
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72. **D. van der Putten and R. Zanoni**
"From molecular copper-selenide clusters to bulk Cu₂Se: evidence for hole-state localization obtained from XPS"
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74. **Maurizio Lenarda, Renzo Ganzerla, Stefano Paganelli, Loretta Storaro, Roberto Zanoni**
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"Chemical Vapor Deposition of platinum hexafluoroacetylacetonate inside HL zeolite: role of metal-proton interactions"
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"Angle-resolved XPS experiments on the full series of molecular Au₅₅(PR₃)₁₂Cl₆ clusters"
Journal of the Chemical Society, Dalton Transactions, 1721 (1996)
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77. **M. Carbone, R. Zanoni, M.N. Piancastelli, G. Comtet, G. Dujardin, L.Hellner**
"Synchrotron radiation photoemission and photostimulated desorption of deuterated methanol on Si(100)2x1 and Si(111)7x7"
Surface Science, v. 352-354, 391-395 (1996)
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"Highly selective vapor phase propene hydroformilation catalyzed by Rh/B and Rh-Co/B systems on silica"
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79. **M. Carbone, M.N. Piancastelli, R. Zanoni, G. Comtet, G. Dujardin, L.Hellner**
"Methanol adsorption on Si(111)-(7x7), investigated by core-line photoemission and mass spectrometry of photodesorbed ions"
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"Catalytic behavior of chromia and chromium-doped alumina pillared clay materials for the vapor phase deep oxidation of chlorinated hydrocarbons"
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81. **D. Cauzzi, M. Costa, L. Gonsalvi, M.A. Pellinghelli, G. Predieri, A. Tiripicchio, R. Zanoni**
"Anchoring rhodium(I) on thiourea-functionalized silica xerogels and silsequioxanes. Part II. Matrix effects on the selectivity in the hydroformilation of styrene"
Journal of Organometallic Chemistry, 541, 377 (1997)
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82. **M. Carbone, M.N. Piancastelli, R. Zanoni, G. Comtet, G. Dujardin,**

L.Hellner

"Photon-stimulated desorption of methanol on Si(111)7x7 and Si(100)2x1 at the C 1s and O 1s thresholds"

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