



2000年国际刊物

1. Z.Q. Tian, B. Ren, *Infrared and Raman Spectroscopy in Analysis of Surfaces, A Chapter in Encyclopedia of Analytical Chemistry*, R.A.Meyers(Ed)? John Wiley & Sons Ltd, Chichester, 9162-9201 (2000).
2. C.J. Lin, X.D. Zhuo, T.Nguyen, *An Array Electrode Technique for Mapping Corrosion Potential at the Polymer/Metal Interface, A Chapter in Corrosion and Reliability of Electronic Materials and Devices*, Edited by R.B.Comizzoli, R.P.Frankenthal, J.D.Sinclair, The Electrochemical Society, INC, 282-285 (1999).
3. B. Ren, Q.J. Huang, Y. Xie, Z.Q. Tian, Analyzing the Adsorption Behavior of Thiocyanide on Pure Pt and Ni Electrode Surfaces by Confocal Microprobe Raman Spectroscopy, *Analytical Sciences*, 16(2), 225-230 (2000).
4. Y.Q. Yang, S.J. Dai, Y.Z. Yuan, R.C. Lin, D.L. Tang, H.B. Zhang, The Promoting Effects of La_2O_3 and CeO_2 on $\text{K}_2\text{MoS}_4/\text{SiO}_2$ Catalyst for Methanethiol Synthesis from Syngas Blending With H_2S , *Applied Catalysis A: General*, 192, 175-180 (2000).
5. W. Wang, H.B. Zhang, G.D. Lin, Z.T. Xiong, Study of $\text{Ag}/\text{La}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$ Catalysts for Complete Oxidation of Methanol and Ethanol at Low Concentrations, *Applied Catalysis B; Environmental*, 24, 219-232 (2000).
6. H. Chen, R.B. Huang, Z.C. Tang, L.S. Zheng, Single Titanium Crystals Encapsulated in Carbon Nanocages Obtained by Laser Vaporization of Sponge Titanium in Benzene Vapor, *Applied Physics Letters*, 77(3), 91-93 (2000).
7. C.H. Shi, X.W. Cai, Y.A. Chen, Y.X. Chen, Z.Q. Tian, B.W. Mao, Extending an in situ Scanning Tunneling Microscopic Study to Rough Electrode Surfaces-Iodine Adsorption at Silver Electrodes, *Applied Surface Science*, 158, 11-15 (2000).
8. W.Z. Weng, M.S. Chen, Q.G. Yan, T.H. Wu, Z.S. Chao, Y.Y. Liao, H.L. Wan, Mechanistic Study of Partial Oxidation of Methane to Synthesis Gas Over Supported Rhodium and Ruthenium Catalysts Using in situ Time-Resolved FTIR Spectroscopy, *Catalysis Today*, 63, 317-326 (2000).
9. J.L. Yao, X. Xu, D.Y. Wu, Y. Xie, B. Ren, Z.Q. Tian, G.P. Pan, D.M. Sun, K.H. Xue, Electronic Properties of Metal Nanorods Probed by Surface-Enhanced Raman Spectroscopy, *Chem. Commun.*, 1627-1628 (2000).
10. J.M. Galbraith, P.R. Schreiner, N. Harris, W. Wu, A. Wittkopp, S. Shaik, A Valence Bond Study of the Bergman Cyclization: Geometric Features, Resonance Energy, and Nucleus-Independent Chemical Shift (NICS) Values, *Chem. Eur.J.*, 6(8), 1446-1454 (2000).
11. P.G. Cao, J.L. Yao, B. Ren, B.W. Mao, R.A. Gu, Z.Q. Tian, Surface-Enhanced Raman Scattering from Bare Fe Electrode Surfaces, *Chemical Physics Letters*, 316, 1-5 (2000).
12. Z.X. Xie, X.W. Cai, J. Tang, Y.A. Chen, B.W. Mao, STM Tip-Induced Nanoscale Etching on the H-Terminated N-Si(111) Surfaces Under the Potential Control, *Chemical Physics Letters*, 322, 219-223 (2000).
13. B. Ren, X.Q. Li, D.Y. Wu, J.L. Yao, Y. Xie, Z.Q. Tian, Orientational Behavior of Cyanide on a Roughened Platinum Surface Investigated by Surface Enhanced Raman Spectroscopy, *Chemical Physics Letters*, 322, 561-566 (2000).
14. Z.X. Xie, X. Xu, J. Tang, B.W. Mao, Molecular Packing in Self-Assembled Monolayers of Normal Alkane on Au(111) Surfaces, *Chemical Physics Letters*, 323, 209-216 (2000).
15. M.D. Chen, R.B. Huang, L.S. Zheng, Q.E. Zhang, C.T. Au, A Theoretical Study for the Isomers of Neutral, Cationic and Anionic Phosphorus Clusters P_5 , P_7 , P_9 , *Chemical Physics Letters*, 325, 22-28 (2000).
16. H.P. Zhang, J. Luo, H.G. Huang, L.L. Wu, Z.H. Lin, Electrochemical Assembly of Nano-Organized Poly-O-

- Phenylenediamine Films, *Chemical Physics Letters*, 326, 169-174 (2000).
17. H. Xian, Z.X. Cao, X. Xu, X. Lu, Q.E. Zhang, Theoretical Study of Low-Lying Electronic States of CuO and CuO⁻, *Chemical Physics Letters*, 326, 485-493 (2000).
 18. B. Ren, Z.Q. Tian, C. Guo, D.L. Akins, Confocal Microprobe Raman Spectroscopy for Investigating the Aggregation Process at the Liquid/Air Interface, *Chemical Physics Letters*, 328, 17-22 (2000).
 19. J.X. Gao, H. Zhang, X.D. Yi, P.P. Xu, C.L. Tang, H.L. Wan, K.R. Tsai, T. Ikariya, New Chiral Catalysts for Reduction of Ketones, *Chirality*, 12, 383-388 (2000).
 20. C.J. Lin, R.G. Du, T. Nguyen, In-Situ Imaging of Chloride Ions at the Metal/Solution Interface by Scanning Combination Microelectrodes, *Corrosion*, 56(1), 41-47 (2000).
 21. Z.L. Li, K. Chen, Y. Zeng, S.Z. Yao, S.M. Zhou, A Novel Combined Electrochemical Oscillator from Cathode and Anode in The IO³⁻/Fe(CN)₆⁴⁻ System, *Electrochemistry Communications*, 2, 240-243 (2000).
 22. K. Ataka, G. Nishina, W.B. Cai, S.G. Sun, M. Osawa, Dynamics of the Dissolution of an Underpotentially Deposited Cu Layer on Au(111): a Combined Time-Resolved Surface-Enhanced Infrared and Chronoamperometric Study, *Electrochemistry Communications*, 2, 417-421 (2000).
 23. L.L. Wu, H.G. Huang, J.X. Li, J. Luo, Z.H. Lin, Time-Resolved UV-Vis Spectroelectrochemical Studies of the Electron Transfer Process of Cytochrome C, *Electrochimica Acta*, 45, 2877-2881 (2000).
 24. X.Y. Xiao, S.G. Sun, Electrosorption of P-Nitrobenzoic Acid at a Gold Electrode in Perchloric Acid Solutions Studied by Using Cyclic Voltammetry, EQCM, in Situ FTIRS and Raman Spectroscopy, *Electrochimica Acta*, 45, 2897-2902 (2000).
 25. L.L. Wu, J.Z. Zhou, J. Luo, Z.H. Lin, Oxidation and Adsorption of Deoxyribonucleic Acid at Highly Ordered Pyrolytic Graphite Electrode, *Electrochimica Acta*, 45, 2923-2927 (2000).
 26. Q.H. Wu, S.G. Sun, X.Y. Xiao, Y.Y. Yang, Z.Y. Zhou, An EQCM Study of Sb Adsorption and Coadsorption with CO on Pt Electrode in Perchloric Acid Solutions, *Electrochimica Acta*, 45, 3683-3690 (2000).
 27. B. Ren, X.Q. Li, C.X. She, D.Y. Wu, Z.Q. Tian, Surface Raman Spectroscopy as a Versatile Technique to Study Methanol Oxidation on Rough Pt Electrodes, *Electrochimica Acta*, 46, 193-205 (2000).
 28. J.L. Yao, H.C. Liu, P.G. Cao, B. Ren, B.W. Mao, R.A. Gu, Z.Q. Tian, In Situ Surface Raman Spectroscopic Studies on Benzotriazole and Thiourea as Corrosion Inhibitors for Bare Iron Surfaces, *Electrochemical Approach to Selected Corrosion and Corrosion Control Studies*, 38-46 (2000).
 29. R.B. Huang, H. Chen, Q. Zhang, L.S. Zheng, Sequential Dissociation Kinetics and Fragment Distribution of Cluster Ions, *European Journal Of Mass Spectrometry*, 6, 325-330 (2000).
 30. Z.H. Zhou, H.L. Wan, K.R. Tsai, Syntheses and Spectroscopic and Structural Characterization of Molybdenum(VI)Citrate Monomeric Raceme and Dimer, K₄[MoO₃(cit)]·2H₂O and K₄[(MoO₂)₂O(Hcit)₂]·4H₂O, *Inorg.Chem*, 39, 59-64 (2000).
 31. N. Harris, W. Wu, W.H. Saunders, Jr., S. Shaik, Origin of Nonperfect Synchronization in the Lowest-Energy Path of Identity Proton Transfer Reactions Leading to Delocalized Anions: a VBSCF Study, *J.Am.Chem.Soc.*, 122(28), 6754-6758 (2000).

32. Y.M. Dong, Q. Yuan, Y.S. Wu, M. Wang, Studies on the Effect of Substitution Degree on the Liquid Crystalline Behavior Of Cyanoethyl Chitosan, *Journal Of Applied Polymer Science*, 76, 2057-2061 (2000).
33. Z.C. Tang, J.J. BelBruno, R.B. Huang, L.S. Zheng, Collision-Induced Dissociation and Density Functional Study of the Structures and Energies of Cyclic $C_{2n}N_5^-$ Clusters, *J.Chem.Phys.*, 112(21), 9276-9281 (2000).
34. H. Chen, R.B. Huang, X. Lu, Z.C. Tang, X. Xu, L.S. Zheng, Studies on Carbon/Sulfur Cluster Anions Produced by Laser Vaporization: Experiment (Collision-Induced Dissociation) and Theory (ab Initio Calculation). $I.C_2S_m^-$ ($1 \leq m \leq 11$), *J.Chem.Phys.*, 112(21), 9310-9318 (2000).
35. S.F. Yang, G.B. Su, J. Tang, B.W. Mao, J.M. Wu, Z.D. Li, Surface Topography of Rapidly Grown KH_2PO_4 Crystals with Additives: Ex Situ Investigation by Atomic Force Microscopy, *Journal of Crystal Growth*, 203, 425-433 (1999).
36. J.X. Gao, X.D. Yi, P.P. Xu, C.L. Tang, H. Zhang, H.L. Wan, T. Ikariya, Cationic Rhodium Complexes with Chiral Tetradentate Ligands as Catalysts for Enantioselective Reduction of Simple Ketones, *Journal of Molecular Catalysis A: Chemical*, 159, 3-9 (2000).
37. M.D. Chen, R.B. Huang, L.S. Zheng, C.T. Au, The Prediction of Isomers for Phosphorus Clusters P_8 and P_9 , *Journal of Molecular Structure (Theochem)*, 499, 195-201 (2000).
38. J. Luo, H.G. Huang, H.P. Zhang, L.L. Wu, Z.H. Lin, M. Hepel, Studies on Photoelectrochemistry of Nano-Particulate $TiO_2/PANI/PATP$ Film on Au Electrodes, *Journal of New Materials For Electrochemical Systems*, 3, 249-252 (2000).
39. Z.W. Fu, L.N. Zhang, Q.Z. Qin, Y.H. Zhang, X.K. Zeng, H. Cheng, R.B. Huang, L.S. Zheng, An Experimental and ab Initio Study of Hypervalent $LiOZn$, *J.Phys. Chem.A*, 104, 2980-2984 (2000).
40. T.J. Zhou, A.M. Liu, Y.R. Mo, H.B. Zhang, Sequential Mechanism of Methane Dehydrogenation over Metal (Mo or W) Oxide and Carbide Catalysts, *J.Phys. Chem. A*, 104, 4505-4513 (2000).
41. S.Y. Xie, R.B. Huang, J. Ding, L.J. Yu, Y.H. Wang, L.S. Zheng, Formation of Buckminsterfullerene and Its Perchlorinated Fragments by Laser Ablation of Perchloroacenaphthylene, *J.Phys. Chem. A*, 104, 7161-7164 (2000).
42. W. Wu, D. Danovich, A. Shurki, S. Shaik, Using Valence Bond Theory to Understand Electronic Excited States: Application to the Hidden Excited State ($21A_g$) of $C_{2n}H_{2n+2}$ ($n=2-14$) Polyenes, *J.Phys. Chem.A*, 104, 8744-8758 (2000).
43. X. Lu, X. Xu, N.Q. Wang, Q.E. Zhang, Chemisorption of CO at Strongly Basic of MgO Solid: A Theoretical Study, *J.Phys.Chem. B*, 104, 10024-10031 (2000).
44. Z.X. Xie, X. Xu, J. Tang, B.W. Mao, Reconstruction-Dependent Self-Assembly of N-Alkanes on Au(111) Surfaces, *J.Phys. Chem. B*, 104, 11719-11722 (2000).
45. Y.M. Dong, Q. Yuan, Y. Huang, Textures and Disclinations in the Cholesteric Liquid-Crystalline Phase of a Cyanoethyl Chitosan Solution, *J.Polym.Sci.Part B: Polymer Physics*, 38, 980-986 (2000).
46. H.Q. Huang, Q.M. Lin, Z.B. Lou, Construction of a Ferritin Reactor: an Efficient Means for Trapping Various Heavy Metal Ions in Flowing Seawater, *Journal Of Protein Chemistry*, 19(6), 441-447 (2000).
47. G.Q. Lu, S.G. Sun, L.R. Cai, S.P. Chen, Z.W. Tian, K.K. Shiu, In Situ FTIR Spectroscopic Studies of Adsorption of CO, SCN^- , and Poly(O-Phenylenediamine) on Electrodes of Nanometer Thin Films of Pt, Pd, and Rh: Abnormal Infrared Effects (AIREs), *Langmuir*, 16, 778-786 (2000).
48. C.T. Williams, Y. Yang, C.D. Bain, Total Internal Reflection Sum-Frequency Spectroscopy: A Strategy For Studying Molecular Adsorption on Metal Surfaces, *Langmuir*, 16, 2343-2350 (2000).
49. Y.S. Zou, J. Lin, R.C. Zhuang, J.L. Ye, L.Z. Dai, L.S. Zheng, Synthesis Of Block Copolymer From Dissimilar Vinyl Monomer By Stable Free Radical Polymerization, *Macromolecules*, 33, 4745-4749 (2000).
50. Z. Chen, Scott.D. Kemmedy, J.H. Zhong, Quantitation of Intermolecular Dipolar Effects in NMR Spectroscopy and High Order MSE MR Imaging, Magnetic Resonance Materials in Physics, *Biology and Medicine*, 11, 122-128 (2000).

51. M.D. Chen, H.B. Luo, Z.J. Qiu, Q.E. Zhang, C.T. Au, A Theoretical Study on the Structures of Phosphorus Clusters P₁₂, *Main Grop Metal*, 23(5), 291-297 (2000).
52. M.D. Chen, H.B. Luo, M.H. Liu, Q.E. Zhang, C.T. Au, A Theoretical Study of The Isomers of Phosphorus Clusters P₁₁, P₁₁⁺ and P₁₁⁻, *Main Grop Metal*, 23(7), 361-367 (2000).
53. Y.M. Dong, Q. Yuan, Y.S. Wu, M. Wang, Fine Structure in Cholesteric Fingerprint Texture Observed by Scanning Electron Microscopy, *Polymer Bulletin*, 44, 85-91 (2000).
54. Y.M. Dong, Q. Yuan, Y.S. Wu, J.W. Wang, M. Wang, Crystalline Morphology Developing from Cholesteric Mesophase in Cyanoethyl Chitosan Solutions, *Polymer Journal*, 32(4), 326-329 (2000).
55. J.L. Yao, G.P. Pan, K.H. Xue, D.Y. Wu, B. Ren, D.M. Sun, J. Tang, X. Xu, Z.Q. Tian, A Complementary Study of Surface-Enhanced Raman Scattering and Metal Nanorod Arrays, *Pure Appl.Chem*, 72(1), 221-228 (2000).
56. H.B. Zhang, W. Wang, Z.T. Xiong, G.D. Lin, Ag/La_{0.6}Sr_{0.4}MnO₃/γ-Al₂O₃ Catalysts for Complete Oxidation of Methanol at Low Concentration, *Studies in Surface Science and Catalysis*, 130, 1547-1552 (2000).
57. H.Q. Lin, Z.S. Chao, T.H. Wu, G.Z. Chen, F.X. Zhang, H.L. Wan, K.R. Tsai, Novel Method of Preparing Zeolite Membranes from Colloidal Zeolite Nay, *Studies in Surface Science and Catalysis*, 130, 2897-2902 (2000).
58. Q.G. Yan, Z.S. Chao, T.H. Wu, W.Z. Weng, M.S. Chen, H.L. Wan, Carbon Deposition on Ni/Al₂O₃ Catalyst during Partial Oxidation of Methane to Syngas, *Studies in Surface Science and Catalysis*, 130, 3549-3554 (2000).
59. Z.S. Chao, Q.G. Tan, T.H. Wu, W.Z. Weng, H.Q. Lin, L.F. Yang, J.L. Ye, M.S. Chen, H.L. Wan, K.R. Tsai, Mechanistic Studies of Methane Partial Oxidation to Synthesis Gas over SiO₂-Supported Rhodium Catalyst, *Studies in Surface Science and Catalysis*, 130, 3555-3560 (2000).
60. H.B. Zhang, Y. Zhang, G.D. Lin, Y.Z. Yuan, K.R. Tsai, Carbon Nanotubes-Supported Rh-Phosphine Complex Catalysts for Propene Hydroformylation, *Studies in Surface Science and Catalysis*, 130, 3885-3890 (2000).
61. A. Marchenko, Z.X. Xie, J. Cousty, L. Pham Van, Structures of Self-Assembled Monolayer of Alkanes Adsorbed on Au(111)Surfaces, *Surf.Interface Anal*, 30, 167-169 (2000).
62. J. Charlier, J. Cousty, Z.X. Xie, C. Vasset-Le Poulennec, C. Bureau, Adsorption of Substituted Pyrrolidone Molecules on Au(111): an STM And XPS Study, *Surf. Interface Anal*, 30, 283-287 (2000).
63. W.L. Dai, Y. Cao, J.F. Deng, Y.Y. Liao, B.F. Hong, The Role of Iodide Promoter in Selective Oxidation of Methanol to Formaldehyde, *Catalysis Letters*, 63, 49-57 (1999).

