

固体表面物理化学国家重点实验室

2012 年报论文目录

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2. "Computational Organometallic Chemistry" Chapter: Reactivity of Metal Carbene Clusters $Pt_nCH_2^+$ and $PtMCH_2^+$ (M = Cu, Ag, Au, Pt, Rh) Toward O_2 and NH_3 : A Computational Study
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主要研究论文

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2. Mesoporous Beta Zeolite-Supported Ruthenium Nanoparticles for Selective Conversion of Synthesis Gas to C_5 - C_{11} Isoparaffins
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3. Tetrahedral Pt Nanocrystal Catalysts Decorated with Ru Adatoms and Their Enhanced Activity in Methanol Electrooxidation
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4. Copper Can Still Be Epitaxially Deposited on Palladium Nanocrystals To Generate Core-Shell Nanocubes Despite Their Large Lattice Mismatch

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5. Hollow Mesoporous Aluminosilica Spheres with Perpendicular Pore Channels as Catalytic Nanoreactors
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CATALYSIS COMMUNICATIONS 21 (2012) 18-21172
40. CdS-Graphene and CdS-CNT Nanocomposites as Visible-Light Photocatalysts for Hydrogen Evolution and Organic Dye Degradation
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42. Development of Bifunctional Catalysts for the Conversions of Cellulose or Cellobiose into Polyols and Organic Acids in Water

- Deng WP, Wang YL, Zhang QH, Wang Y
CATALYSIS SURVEYS FROM ASIA 16(2) (2012) 91-105175
43. Electroless Deposition of Ultrathin Au Film for Surface Enhanced *in situ* Spectroelectrochemistry and Reaction-Driven Surface Reconstruction for Oxygen Reduction Reaction
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44. Improved Performance of Magnetically Recoverable Ce-Promoted Ni/Al₂O₃ Catalysts for Aqueous-Phase Hydrogenolysis of Sorbitol to Glycols
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91. Construction of Fullerocyclobutene Derivatives through Copper(I)-Mediated Radical Annulation of C ₆₀ Cl ₆ with Aryl Acetylenes Wang S, Yan P, Huang HY, Zhan ZP, Xie SY, Huang RB, Zheng LS	CHEMISTRY-AN ASIAN JOURNAL	7(11) (2012) 2531-2533270
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93. Statistical Two-Dimensional Correlation Spectroscopy of Urine and Serum from Metabolomics Data
 Xu JJ, Cai SH, Li XJ, Dong JY, Ding J, Chen Z
 CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS
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 33-40272
94. Non-Negative Principal Component Analysis for NMR-Based Metabolomic Data Analysis
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 CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS
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 51-61273
95. Theoretical Studies on the Photoinduced Rearrangement Mechanism of a-Santonin
 Chen X, Rinkevicius Z, Luo Y, Agren H, Cao ZX
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97. Significant Synergistic Effect between Supported Ruthenium and Copper Oxides for Propylene Epoxidation by Oxygen
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 COMPUTATIONAL MATERIALS SCIENCE 65 (2012) 165-169278
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 Liu H, Tan K
 COMPUTATIONAL AND THEORETICAL CHEMISTRY 991 (2012) 98-101279
101. Corrosion Behavior of Epoxy/Zinc Duplex Coated Rebar Embedded in Concrete in Ocean Environment
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 CONSTRUCTION AND BUILDING MATERIALS 28(1) (2012) 72-78280
102. Probing the Vertical Profiles of Potential in a Thin Layer of Solution Closed to Electrode Surface during Localized
 Corrosion of Stainless Steel

- Ye CQ, Hu RG, Li Y, Lin CJ, Pan JS
CORROSION SCIENCE 61 (2012) 242-245281
103. Anion-Controlled Assembly of Silver(I)/Aminobenzonitrile Compounds: Syntheses, Crystal Structures, and Photoluminescence Properties
Liu FJ, Sun D, Hao HJ, Huang RB, Zheng LS
CRYSTAL GROWTH & DESIGN 12(1) (2012) 354-361282
104. Syntheses, Structures, and Photoluminescences of Four Cd(II) Coordination Architectures Based on 1-(4-Pyridylmethyl)-2-methylimidazole and Aromatic Carboxylates: From One-Dimensional Chain to Three-Dimensional Coordination Architecture
Liu FJ, Hao HJ, Sun CJ, Lin XH, Chen HP, Huang RB, Zheng LS
CRYSTAL GROWTH & DESIGN 12(4) (2012) 2004-2012283
105. 3D → 3D Interpenetrated and 2D → 3D Polycatenated Ag(I) Networks Constructed from 1,4-Bis(2-Methylimidazol-1-Ylmethyl)Benzene and Dicarboxylates
Liu FJ, Sun D, Hao HJ, Huang RB, Zheng LS
CRYSTENGCOMM 14(2) (2012) 379-382284
106. Syntheses, Crystal Structures and Photoluminescent Properties of Two Novel Ag(I) Coordination Polymers with Benzoguanamine and Pyrazine-Carboxylate Ligands: From 1D Helix to 1D → 2D Interdigitation
Sun D, Hao HJ, Liu FJ, Su HF, Huang RB, Zheng LS
CRYSTENGCOMM 14(2) (2012) 480-487285
107. Effect of Ionic Radius on the Assemblies of First Row Transition Metal-5-*tert*-Butylisophthalates-(2,2'-Bipyridine or Phenanthroline) Coordination Compounds
Jin RF, Yang SY, Li HM, Long LS, Huang RB, Zheng LS
CRYSTENGCOMM 14(4) (2012) 1301-1316286
108. A Family of Lanthanide-Nitronyl Nitroxide Complexes: Syntheses, Crystal Structures and Magnetic Properties
Wang YL, Gao YY, Ma Y, Wang QL, Li LC, Liao DZ
CRYSTENGCOMM 14(14) (2012) 4706-4712287
109. Syntheses, Structures and Fluorescence of Two Coordination Complexes of Zn(II) and 1,3-Bis(2-Methylimidazolyl)Propane: Solvent Effect
Hao HJ, Liu FJ, Su HF, Wang ZH, Wang DF, Huang RB, Zheng LS
CRYSTENGCOMM 14(20) (2012) 6726-6731288
110. Synthesis and Shape-Dependent Catalytic Properties of CeO₂ Nanocubes and Truncated Octahedral
Wang X, Jiang ZY, Zheng BJ, Xie ZX, Zheng LS
CRYSTENGCOMM 14(22) (2012) 7579-7582289
111. Synthesis of Layered Protonated Titanate Hierarchical Microspheres with Extremely Large Surface Area for Selective Adsorption of Organic Dyes

- Xie SF, Zheng BJ, Kuang Q, Wang X, Xie ZX, Zheng LS
 CRYSTENGCOMM 14(22) (2012) 7715-7720290
112. Three Guest-Dependent Nitrate-Water Aggregations Encapsulated in Silver(I)-Bipyridine Supramolecular Frameworks
 Sun D, Liu FJ, Huang RB, Zheng LS
 CRYSTENGCOMM 14(23) (2012) 7872-7876291
113. Isolations and Characterization of Highly Water-Soluble Dimeric Lanthanide Citrate and Malate with
 Ethylenediaminetetraacetate
 Chen ML, Gao S, Zhou ZH
 DALTON TRANSACTIONS 41(4) (2012) 1202-1209292
114. Three Novel Organosilver(I) Coordination Networks Constructed from Diallylmelamine and Polycarboxylates
 Incorporating Silver-Vinyl Bonding
 Li YH, Sun D, Hao HJ, Zhao Y, Huang RB, Zheng LS
 DALTON TRANSACTIONS 41(8) (2012) 2289-2295293
115. Synthesis, Characterization and Photocatalytic Property of AgBr/BiPO₄ Heterojunction Photocatalyst
 Xu H, Xu YG, Li HM, Xia JX, Xiong J, Yin S, Huang CJ, Wan HL
 DALTON TRANSACTIONS 41(12) (2012) 3387-3394294
116. Study of the Coordination and Solution Structures for the Interaction Systems between Diperoxidovanadate Complexes
 and 4-(Pyridin-2-yl)Pyrimidine-Like Ligands
 Yu XY, Yi PG, Ji DH, Zeng BR, Li XF, Xu X
 DALTON TRANSACTIONS 41(13) (2012) 3684-3694295
117. Dynamic Chiral-at-Metal Stability of Tetrakis(*d/l*-hfc)Ln(III) Complexes Capped with an Alkali Metal Cation in Solution
 Lin YJ, Zou F, Wan SG, Ouyang J, Lin LR, Zhang H
 DALTON TRANSACTIONS 41(22) (2012) 6696-6706296
118. Polyoxometalates as Efficient Catalysts for Transformations of Cellulose into Platform Chemicals
 Deng WP, Zhang QH, Wang Y
 DALTON TRANSACTIONS 41(33) (2012) 9817-9831297
119. Assembly of an Undeca-Nuclear Nickel Substituted POM through Polycarboxylate Ligand
 Zheng YY, Wen R, Kong XJ, Long LS, Huang RB, Zheng LS
 DALTON TRANSACTIONS 41(33) (2012) 9871-9875298
120. Stepwise Assembly of Homochiral Coordination Polymers Based on the Precursor of an Enantiopure Yb₃Mn₆ Cluster
 Zheng Y, Long LS, Huang RB, Zheng LS
 DALTON TRANSACTIONS 41(35) (2012) 10518-10520299
121. Syntheses, Structure, and Magnetic Properties of Hexanuclear Mn^{III}₂M^{III}₄ (M = Y, Gd, Tb, Dy) Complexes
 Xie QW, Cui AL, Tao J, Kou HZ

DALTON TRANSACTIONS	41(35) (2012) 10589-10595	300
122. Single-Molecule Magnets Based on Rare Earth Complexes with Chelating Benzimidazole-Substituted Nitronyl Nitroxide Radicals		
Hu P, Zhu M, Mei XL, Tian HX, Ma Y, Li LC, Liao DZ		
DALTON TRANSACTIONS	41(48) (2012) 14651-14656	301
123. Electrophoresis Deposition of TiO ₂ Nanoparticles on Etched Aluminum Foil for Enhanced Specific Capacitance		
Sun L, Bu JF, Guo WX, Wang YY, Wang MY, Lin CJ		
ELECTROCHEMICAL AND SOLID STATE LETTERS	15(1) (2012) E1-E3	302
124. Shape Transformation from Pt Nanocubes to Tetrahexahedra with Size Near 10 nm		
Zhou ZY, Shang SJ, Tian N, Wu BH, Zheng NF, Xu BB, Chen C, Wang HH, Xiang DM, Sun SG		
ELECTROCHEMISTRY COMMUNICATIONS	22 (2012) 61-64	303
125. High Activity of PtBi Intermetallics Supported on Mesoporous Carbon Towards HCOOH Electro-Oxidation		
Zhang BW, He CL, Jiang YX, Chen MH, Li YY, Rao L, Sun SG		
ELECTROCHEMISTRY COMMUNICATIONS	25 (2012) 105-108	304
126. The Effects of N-Methyl-N-Butylpyrrolidinium Bis(Trifluoromethylsulfonyl)Imide-Based Electrolyte on the Electrochemical Performance of High Capacity Cathode Material Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂		
Zheng JM, Zhu DR, Yang Y, Fung YS		
ELECTROCHIMICA ACTA	59 (2012) 14-22	305
127. The Production of Self-Assembled Fe ₂ O ₃ -Graphene Hybrid Materials by a Hydrothermal Process for Improved Li-Cycling		
Tian LL, Zhuang QC, Li J, Wu C, Shi YL, Sun SG		
ELECTROCHIMICA ACTA	65 (2012) 153-158	306
128. Preparation of Pt Nanoparticles Supported on Ordered Mesoporous Carbon FDU-15 for Electrocatalytic Oxidation of CO and Methanol		
Lin DH, Jiang YX, Chen SR, Chen SP, Sun SG		
ELECTROCHIMICA ACTA	67 (2012) 127-132	307
129. Electrochemically Shape-Controlled Synthesis in Deep Eutectic Solvents of Pt Nanoflowers with Enhanced Activity for Ethanol Oxidation		
Wei L, Fan YJ, Wang HH, Tian N, Zhou ZY, Sun SG		
ELECTROCHIMICA ACTA	76 (2012) 468-474	308
130. Nanoarchitected Fe ₃ O ₄ Array Electrode and Its Excellent Lithium Storage Performance		
Ke FS, Huang L, Zhang B, Wei GZ, Xue LJ, Li JT, Sun SG		
ELECTROCHIMICA ACTA	78 (2012) 585-591	309
131. CdSe/CdS Quantum Dots co-Sensitized TiO ₂ Nanotube Array Photoelectrode for Highly Efficient Solar Cells		
Lai YK, Lin ZQ, Zheng DJ, Chi LF, Du RG, Lin CJ		

ELECTROCHIMICA ACTA	79 (2012) 175-181	310	
132. Highly Efficient CdSe/CdS co-Sensitized TiO ₂ Nanotube Films for Photocathodic Protection of Stainless Steel Zhang J, Du RG, Lin ZQ, Zhu YF, Guo Y, Qi HQ, Xu L, Lin CJ	ELECTROCHIMICA ACTA	83 (2012) 59-64	311
133. A Combined TiO ₂ Structure with Nanotubes and Nanoparticles for Improving Photoconversion Efficiency in Dye-Sensitized Solar Cells Zheng DJ, Lv MQ, Wang SP, Guo WX, Sun L, Lin CJ	ELECTROCHIMICA ACTA	83 (2012) 155-159	312
134. Selective Etching of ZnO Films on an ITO Substrate Using a Scanning Electrochemical Microscope Tang J, Zheng JJ, Yu YT, Chen LN, Zhang N, Tian ZW	ELECTROCHIMICA ACTA	83 (2012) 247-252	313
135. A High-Throughput Electrochemical Impedance Spectroscopy Evaluation of Bioresponsibility of the Titanium Microelectrode Array Integrated with Hydroxyapatite and Silver Zhang F, Lin LX, Wang GW, Hu R, Lin CJ, Chen Y	ELECTROCHIMICA ACTA	85 (2012) 152-161	314
136. Palladium Nanocrystals Enclosed by {100} and {111} Facets in Controlled Proportions and their Catalytic Activities for Formic Acid Oxidation Jin MS, Zhang H, Xie ZX, Xia YN	ENERGY & ENVIRONMENTAL SCIENCE	5(4) (2012) 6352-6357	315
137. A Graphene-Platinum Nanoparticles-Ionic Liquid Composite Catalyst for Methanol-Tolerant Oxygen Reduction Reaction Tan YM, Xu CF, Chen GX, Zheng NF, Xie QJ	ENERGY & ENVIRONMENTAL SCIENCE	5(5) (2012) 6923-6927	316
138. α -MnO ₂ Nanorods Grown <i>in situ</i> on Graphene as Catalysts for Li-O ₂ Batteries with Excellent Electrochemical Performance Cao Y, Wei ZK, He J, Zang J, Zhang Q, Zheng MS, Dong QF	ENERGY & ENVIRONMENTAL SCIENCE	5(12) (2012) 9765-9768	321
139. Differential Protein Profile in Zebrafish (<i>Danio rerio</i>) Brain under the Joint Exposure of Methyl Parathion and Cadmium Ling XP, Lu YH, Huang HQ	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	19(9)	(2012) 3925-3941
140. Hydrodemetallation (HDM) of Nickel-5,10,15,20-Tetraphenylporphyrin (Ni-TPP) over NiMo/ γ -Al ₂ O ₃ Catalyst Prepared by One-Pot Method with Controlled Precipitation of the Components Li JJ, Xia ZQ, Lai WK, Zheng JB, Chen BH, Yi XD, Fang WP	FUEL	97 (2012) 504-511	326

141. Hydrocracking of n-Decane over Non-Sulfided Ni-Cs_xH_{3-x}PW₁₂O₄₀/Al₂O₃ Catalysts
 Jin H, Yi XD, Sun SH, Liu J, Yang G, Zhu HH, Fang WP
 FUEL PROCESSING TECHNOLOGY 97 (2012) 52-59327
142. Oxidative Kinetic Resolution of Racemic Secondary Alcohols in Water with Chiral PNNP/Ir Catalyst
 Zhang JN, Yang XR, Zhou H, Li YY, Dong ZR, Gao JX
 GREEN CHEMISTRY 14(5) (2012) 1289-1292 328
143. Trigonal Bipyramidal Dy₅ Cluster Exhibiting Slow Magnetic Relaxation
 Peng JB, Kong XJ, Ren YP, Long LS, Huang RB, Zheng LS
 INORGANIC CHEMISTRY 51(4) (2012) 2186-2190329
144. Synthesis and Characterization of β -Diketimate Germanium(II) Compounds
 Yang Y, Zhao N, Wu YL, Zhu HP, Roesky HW
 INORGANIC CHEMISTRY 51(4) (2012) 2425-2431330
145. Magnetic Nanosized {M^{II}₂₄}-Wheel-Based (M = Co, Ni) Coordination Polymers
 Li J, Tao J, Huang RB, Zheng LS
 INORGANIC CHEMISTRY 51(11) (2012) 5988-5990331
146. Two Triazole-Based Metal-Organic Frameworks Constructed from Nanosized Cu₂₀ and Cu₃₀ Wheels
 Ruan CZ, Wen R, Liang MX, Kong XJ, Ren YP, Long LS, Huang RB, Zheng LS
 INORGANIC CHEMISTRY 51(14) (2012) 7587-7591332
147. β -Diketimate Germylene-Supported Pentafluorophenylcopper(I) and -silver(I) Complexes [LGe(Me)(CuC₆F₅)_n]₂ (n=1, 2), LGe[C(SiMe₃)N₂]AgC₆F₅, and {LGe[C(SiMe₃)N₂](AgC₆F₅)₂}₂ (L = HC[C(Me)N-2,6-*i*Pr₂C₆H₃]₂): Synthesis and Structural Characterization
 Zhao N, Zhang JY, Yang Y, Zhu HP, Li Y, Fu G
 INORGANIC CHEMISTRY 51(16) (2012) 8710-8718333
148. Chemical/Physical Pressure Tunable Spin-Transition Temperature and Hysteresis in a Two-Step Spin Crossover Porous Coordination Framework
 Lin JB, Xue W, Wang BY, Tao J, Zhang WX, Zhang JP, Chen XM
 INORGANIC CHEMISTRY 51(17) (2012) 9423-9430334
149. A Novel Photoluminescent Silver(I) Wire Supported by 4-*tert*-Butylbenzoate and Ligand-Unsupported Ag ...Ag Interactions
 Liu FJ, Sun D, Hao HJ, Huang RB, Zheng LS
 INORGANIC CHEMISTRY COMMUNICATIONS 15 (2012) 136-139335
150. Synthesis and Magnetic Property of a One-Dimensional 3d-4f Heterometallic Triple-Chain Complex
 Bai YL, Xing FF, Zhu SR, Tao J
 INORGANIC CHEMISTRY COMMUNICATIONS 20 (2012) 50-53336

151. Three Lanthanide-Radical Complexes: Synthesis, Structure and Magnetic Properties
Wang C, Wang YL, Qin ZX, Ma Y, Wang QL, Li LC, Liao DZ
INORGANIC CHEMISTRY COMMUNICATIONS 20 (2012) 112-116337
152. Ferro-/Antiferromagnetic Interactions in Two One-Dimensional Cu(II) Complexes: Syntheses, Crystal Structures and Magnetic Studies
Xu N, Wang C, Cheng P, Liao DZ
INORGANIC CHEMISTRY COMMUNICATIONS 23 (2012) 85-89338
153. Six Low-Dimensional Silver(I) Coordination Complexes Derived from 2-Aminobenzonitrile and Carboxylates
Sun D, Liu FJ, Hao HJ, Li YH, Huang RB, Zheng LS
INORGANICA CHIMICA ACTA 387 (2012) 271-276 339
154. Synthesis, Structure and Magnetic Properties of Trinuclear Transition Metal Complexes Based on Pyridine-2-Amidoxime
An GY, Yuan B, Tao J, Cui AL, Kou HZ
INORGANICA CHIMICA ACTA 387 (2012) 401-406 340
155. Hydrogen Bonding-Controlled Assemblies of Polymeric and Octanuclear Tungsten Citrates
Zhang RH, Zhou XW, Xiao SZ, Zhou ZH
INORGANICA CHIMICA ACTA 391 (2012) 224-228 341
156. Design and Fabrication of an MEA Microchip for Cell Culture Study
Yang Y, Liu JY, Zong C, Liu B, Zhang DX, Sun W, Wu YF, Lu M, Tian ZQ
INTEGRATED FERROELECTRICS 135 (2012) 71-76 342
157. Self-Organized TiO₂ Nanotube Arrays with Uniform Platinum Nanoparticles for Highly Efficient Water Splitting
Lai YK, Gong JJ, Lin CJ
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 37(8) (2012) 6438-6446343
158. Partial Oxidation of Methane into Syngas (H₂ + CO) over Effective High-Dispersed Ni/SiO₂ Catalysts Synthesized by a Sol-Gel Method
Xia WS, Hou YH, Chang G, Weng WZ, Han GB, Wan HL
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 37(10) (2012) 8343-8353344
159. Na⁺-Intercalated Carbon Nanotubes-Supported Platinum Nanoparticles as New Highly Effective Catalysts for Preferential CO Oxidation in H₂-Rich Stream
Wang C, Yi GQ, Lin HQ, Yuan YZ
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 37(19) (2012) 14124-14132 ..345
160. In Vitro and In Vivo Studies on Gelatin-Siloxane Nanoparticles Conjugated with SynB Peptide to Increase Drug Delivery to the Brain
Tian XH, Wei F, Wang TX, Wang P, Lin XN, Wang J, Wang D, Ren L
INTERNATIONAL JOURNAL OF NANOMEDICINE 7 (2012) 1031-1041346

161. High-Nuclearity 3d-4f Clusters as Enhanced Magnetic Coolers and Molecular Magnets
 Peng JB, Zhang QC, Kong XJ, Zheng YZ, Ren YP, Long LS, Huang RB, Zheng LS, Zheng ZP
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 134(7) (2012) 3314-3317347
162. Rectangular Bunched Rutile TiO₂ Nanorod Arrays Grown on Carbon Fiber for Dye-Sensitized Solar Cells
 Guo WX, Xu C, Wang X, Wang SH, Pan CF, Lin CJ, Wang ZL
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 134(9) (2012) 4437-4441351
163. Carbon Monoxide-Assisted Synthesis of Single-Crystalline Pd Tetrapod Nanocrystals through Hydride Formation
 Dai Y, Mu XL, Tan YM, Lin KQ, Yang ZL, Zheng NF, Fu G
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 134(16) (2012) 7073-7080356
164. Au₂₀ Nanocluster Protected by Hemilabile Phosphines
 Wan XK, Lin ZW, Wang QM
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 134(36) (2012) 14750-14752364
165. High-Efficiency Photoelectrocatalytic Hydrogen Generation Enabled by Palladium Quantum Dots-Sensitized TiO₂
 Nanotube Arrays
 Ye MD, Gong JJ, Lai YK, Lin CJ, Lin ZQ
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 134(38) (2012) 15720-15723367
166. L-DNA Molecular Beacon: A Safe, Stable, and Accurate Intracellular Nano-thermometer for Temperature Sensing in
 Living Cells
 Ke GL, Wang CM, Ge Y, Zheng NF, Zhu Z, Yang CYJ
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 134(46) (2012) 18908-18911371
167. Structure and Catalytic Performance of Alumina-Supported Copper-Cobalt Catalysts for Carbon Monoxide Hydrogenation
 Wang JJ, Chernavskii PA, Khodakov AY, Wang Y
 JOURNAL OF CATALYSIS 286 (2012) 51-61375
168. Fluoride-Treated H-ZSM-5 as a Highly Selective and Stable Catalyst for the Production of Propylene from Methyl Halides
 Xu T, Zhang QH, Song H, Wang Y
 JOURNAL OF CATALYSIS 295 (2012) 232-241376
169. Flat Pancake Distant Dipolar Fields for Enhancement of Intermolecular Multiple-Quantum Coherence Signals
 Cai CB, Lin YL, Cai SH, Sun HJ, Zhong JH, Chen Z
 JOURNAL OF CHEMICAL PHYSICS 136(9) (2012) 094503377

170. Efficient Conducting Channels Formed by the π - π Stacking in Single [2,2] Paracyclophane Molecules
 Bai ML, Liang JH, Xie LQ, Sanvito S, Mao BW, Hou SM
 JOURNAL OF CHEMICAL PHYSICS 136(10) (2012) 104701378
171. Theoretical Studies on Absorption, Emission, and Resonance Raman Spectra of Coumarin 343 Isomers
 Wu WP, Cao ZX, Zhao Y
 JOURNAL OF CHEMICAL PHYSICS 136(11) (2012) 114305379
172. Doubly Hybrid Density Functional xDH-PBE0 from a Parameter-Free Global Hybrid Model PBE0
 Zhang IY, Su NQ, Bremond EAG, Adamo C, Xu X
 JOURNAL OF CHEMICAL PHYSICS 136(17) (2012) 174103380
173. Free Energy Decomposition Analysis of Bonding and Nonbonding Interactions in Solution
 Su PF, Liu H, Wu W
 JOURNAL OF CHEMICAL PHYSICS 137(3) (2012) 034111381
174. Vibrationally Resolved Photoelectron Imaging of Platinum Carbonyl Anion $\text{Pt}(\text{CO})_n^-$ ($n=1-3$): Experiment and Theory
 Liu ZL, Xie H, Qin ZB, Cong R, Wu X, Tang ZC, Lu X, He J
 JOURNAL OF CHEMICAL PHYSICS 137(20) (2012) 204302382
175. Quantum Instanton Calculation of Rate Constant for $\text{CH}_4+\text{OH} \rightarrow \text{CH}_3+\text{H}_2\text{O}$ Reaction: Torsional Anharmonicity and Kinetic Isotope Effect
 Wang WJ, Zhao Y
 JOURNAL OF CHEMICAL PHYSICS 137(21) (2012) 214306383
176. Low-Lying Electronic States and Their Nonradiative Deactivation of Thieno[3,4-b]Pyrazine: An *ab initio* Study
 Guo XG, Cao ZX
 JOURNAL OF CHEMICAL PHYSICS 137(22) (2012) 224313384
177. Block-Localized Wavefunction (BLW) Based Two-State Approach for Charge Transfers between Phenyl Rings
 Mo YR, Song LC, Lin YC, Liu MH, Cao ZX, Wu W
 JOURNAL OF CHEMICAL THEORY AND COMPUTATION 8(3) (2012) 800-805385
178. DFVB: A Density-Functional-Based Valence Bond Method
 Ying FM, Su PF, Chen ZH, Shaik S, Wu W
 JOURNAL OF CHEMICAL THEORY AND COMPUTATION 8(5) (2012) 1608-1615386
179. The Third Dimension of a More O'Ferrall-Jencks Diagram for Hydrogen Atom Transfer in the Isoelectronic Hydrogen Exchange Reactions of $(\text{PhX})_2\text{H}^\cdot$ with $\text{X} = \text{O}, \text{NH},$ and CH_2
 Cembran A, Provorse MR, Wang CW, Wu W, Gao JL
 JOURNAL OF CHEMICAL THEORY AND COMPUTATION 8(11) (2012) 4347-4358387
180. Reply to Comment on the Paper "An Efficient Algorithm for Energy Gradients and Orbital Optimization in Valence Bond

- Theory"
Wu W, Mo YR
JOURNAL OF COMPUTATIONAL CHEMISTRY 33(8) (2012) 914-915388
181. DCMB that Combines Divide-and-Conquer and Mixed-Basis Set Methods for Accurate Geometry Optimizations, Total Energies, and Vibrational Frequencies of Large Molecules
Wu AA, Xu X
JOURNAL OF COMPUTATIONAL CHEMISTRY 33(16) (2012) 1421-1432389
182. XO: An Extended ONIOM Method for Accurate and Efficient Modeling of Large Systems
Guo WP, Wu AA, Zhang IY, Xu X
JOURNAL OF COMPUTATIONAL CHEMISTRY 33(27) (2012) 2142-2160390
183. Two New Lanthanide-Radical Complexes: Synthesis Structure and Magnetic Properties
Wang C, Wang YL, Ma Y, Wang QL, Li LC, Liao DZ
JOURNAL OF COORDINATION CHEMISTRY 65(16) (2012) 2830-2838391
184. A SERS Study of Thiocyanate Adsorption on Au-Core Pd-Shell Nanoparticle Film Electrodes
Fang PP, Li JF, Lin XD, Anema JR, Wu DY, Ren B, Tian ZQ
JOURNAL OF ELECTROANALYTICAL CHEMISTRY 665 (2012) 70-75392
185. Investigation of Layered $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Cathode of Lithium Ion Battery by Electrochemical Impedance Spectroscopy
Qiu XY, Zhuang QC, Zhang QQ, Cao R, Qiang YH, Ying PZ, Sun SG
JOURNAL OF ELECTROANALYTICAL CHEMISTRY 687 (2012) 35-44393
186. Influence of Grain Boundaries on Dissolution Behavior of a Biomedical CoCrMo Alloy: *In-Situ* Electrochemical-Optical, AFM and SEM/TEM Studies
Bettini E, Leygraf C, Lin CJ, Liu P, Pan JS
JOURNAL OF THE ELECTROCHEMICAL SOCIETY 159(9) (2012) C422-C427394
187. Two-Step Hydrothermal Method for Synthesis of Sulfur-Graphene Hybrid and its Application in Lithium Sulfur Batteries
Wei ZK, Chen JJ, Qin LL, Namage AW, Zheng MS, Dong QF
JOURNAL OF THE ELECTROCHEMICAL SOCIETY 159(8) (2012) A1236-A1239395
188. Ultrasound-Assisted Synthesis and Visible-Light-Driven Photocatalytic Activity of Fe-Incorporated TiO_2 Nanotube Array Photocatalysts
Wu Q, Ouyang JJ, Xie KP, Sun L, Wang MY, Lin CJ
JOURNAL OF HAZARDOUS MATERIALS 199 (2012) 410-417396
189. Coordination of Bi^{3+} to Metal-Free Metallothionein: Spectroscopy and Density Functional Calculation of Structure, Coordination, and Electronic Excitations
He YH, Chen S, Liu YN, Liang YZ, Xiang J, Wu DY, Zhou FM
JOURNAL OF INORGANIC BIOCHEMISTRY 113 (2012) 9-14397

190. High-Resolution Absorptive Intermolecular Multiple-Quantum Coherence NMR Spectroscopy under Inhomogeneous Fields
Lin MJ, Lin YQ, Chen X, Cai SH, Chen Z
JOURNAL OF MAGNETIC RESONANCE 214 (2012) 289-295398
191. Solid-State STRAFI NMR Probe for Material Imaging of Quadrupolar Nuclei
Tang JA, Zhong GM, Dugar S, Kitchen JA, Yang Y, Fu RQ
JOURNAL OF MAGNETIC RESONANCE 225 (2012) 93-101399
192. Au-Cu Alloy Bridged Synthesis and Optoelectronic Properties of Au@CuInSe₂ Core-Shell Hybrid Nanostructures
Zhang QF, Wang JJ, Jiang ZY, Guo YG, Wan LJ, Xie ZX, Zheng LS
JOURNAL OF MATERIALS CHEMISTRY 22(5) (2012) 1765-1769 400
193. Hydrothermal Synthesis of Hierarchical SnO₂ Microspheres for Gas Sensing and Lithium-Ion Batteries Applications: Fluoride-Mediated Formation of Solid and Hollow Structures
Wang HK, Fu F, Zhang FH, Wang HE, Kershaw SV, Xu JQ, Sun SG, Rogach AL
JOURNAL OF MATERIALS CHEMISTRY 22(5) (2012) 2140-2148 401
194. Facile Synthesis of a Interleaved Expanded Graphite-Embedded Sulphur Nanocomposite as Cathode of Li-S Batteries with Excellent Lithium Storage Performance
Wang YX, Huang L, Sun LC, Xie SY, Xu GL, Chen SR, Xu YF, Li JT, Chou SL, Dou SX, Sun SG
JOURNAL OF MATERIALS CHEMISTRY 22(11) (2012) 4744-4750402
195. Origin of the Current Peak of Negative Scan in the Cyclic Voltammetry of Methanol Electro-Oxidation on Pt-Based Electrocatalysts: a Revisit to the Current Ratio Criterion
Hofstead-Duffy AM, Chen DJ, Sun SG, Tong YYJ
JOURNAL OF MATERIALS CHEMISTRY 22(11) (2012) 5205-5208403
196. Enhanced Thermal Stability of Au@Pt Nanoparticles by Tuning Shell Thickness: Insights from Atomistic Simulations
Wen YH, Huang R, Li C, Zhu ZZ, Sun SG
JOURNAL OF MATERIALS CHEMISTRY 22(15) (2012) 7380-7386404
197. Transparent Superhydrophobic/Superhydrophilic TiO₂-Based Coatings for Self-Cleaning and Anti-Fogging
Lai YK, Tang YX, Gong JJ, Gong DG, Chi LF, Lin CJ, Chen Z
JOURNAL OF MATERIALS CHEMISTRY 22(15) (2012) 7420-7426405
198. Metathesis of Alkali-Metal Amidoborane and FeCl₃ in THF
He T, Wang JH, Chen Z, Wu AA, Wu GT, Yin J, Chu HL, Xiong ZT, Zhang T, Chen P
JOURNAL OF MATERIALS CHEMISTRY 22(15) (2012) 7478-7483406
199. The Preparation of Spiral ZnO Nanostructures by Top-Down Wet-Chemical Etching and Their Related Properties
Han XG, Zhou X, Jiang YQ, Xie ZX
JOURNAL OF MATERIALS CHEMISTRY 22(21) (2012) 10924-10928407

200. Nanostructured 0.8Li₂FeSiO₄/0.4Li₂SiO₃/C Composite Cathode Material with Enhanced Electrochemical Performance for Lithium-Ion Batteries
Bai JY, Gong ZL, Lv DP, Li YX, Zou H, Yang Y
JOURNAL OF MATERIALS CHEMISTRY 22(24) (2012) 12128-12132 408
201. Sulfated Mesoporous Au/TiO₂ Spheres as a Highly Active and Stable Solid Acid Catalyst
Li CC, Zheng YP, Wang TH
JOURNAL OF MATERIALS CHEMISTRY 22(26) (2012) 13216-13222 409
202. Magnetite Nanoparticles as Smart Carriers to Manipulate the Cytotoxicity of Anticancer Drugs: Magnetic Control and pH-Responsive Release
Zhao ZH, Huang DT, Yin ZY, Chi XQ, Wang XM, Gao JH
JOURNAL OF MATERIALS CHEMISTRY 22(31) (2012) 15717-15725 410
203. Three-Dimensional Nanoarchitecture of Sn-Sb-Co Alloy as an Anode of Lithium-Ion Batteries with Excellent Lithium Storage Performance
Ke FS, Huang L, Solomon BC, Wei GZ, Xue LJ, Zhang B, Li JT, Zhou XD, Sun SG
JOURNAL OF MATERIALS CHEMISTRY 22(34) (2012) 17511-17517 411
204. Cu-Au Alloy Nanotubes with Five-Fold Twinned Structure and Their Application in Surface-Enhanced Raman Scattering
Jiang ZY, Zhang QF, Zong C, Liu BJ, Ren B, Xie ZX, Zheng LS
JOURNAL OF MATERIALS CHEMISTRY 22(35) (2012) 18192-18197 412
205. Synthesis and Characterization of *in situ* Fe₂O₃-Coated FeF₃ Cathode Materials for Rechargeable Lithium Batteries
Zhang W, Ma L, Yue HJ, Yang Y
JOURNAL OF MATERIALS CHEMISTRY 22(47) (2012) 24769-24775 413
206. The Preparation of a Novel Anion-Exchange Membrane and Its Application in All-Vanadium Redox Batteries
Zhang Q, Dong QF, Zheng MS, Tian ZW
JOURNAL OF MEMBRANE SCIENCE 421 (2012) 232-237 414
207. Carboxylate-Modulated Two Novel Ag(I) Coordination Compounds with Benzoguanamine Ligand: Syntheses, Structures, Thermal Stability and Photoluminescent Properties
Hao HJ, Sun D, Liu FJ, Huang RB, Zheng LS
JOURNAL OF MOLECULAR STRUCTURE 1011 (2012) 105-110 415
208. Dicarboxylate-Controlled Three Zn(II) Coordination Polymers Incorporating Flexible 1,2-bis(imidazol-1'-yl)Ethane Ligand: Syntheses, Structures, Thermal Stabilities and Photoluminescent Properties
Hao HJ, Sun D, Liu FJ, Huang RB, Zheng LS
JOURNAL OF MOLECULAR STRUCTURE 1012 (2012) 131-136 416
209. A Novel One-Dimensional Mixed Ligands Silver(I) Coordination Polymer Containing Two Different Chains
Liu FJ, Sun D, Hao HJ, Huang RB, Zheng LS
JOURNAL OF MOLECULAR STRUCTURE 1014 (2012) 70-73 417

210. VBEPF: A Valence Bond Approach That Incorporates Effective Fragment Potential Method
Ying FM, Chang X, Su PF, Wu W
JOURNAL OF PHYSICAL CHEMISTRY A 116(7) (2012) 1846-1853 418
211. Theoretical Investigations of Spin Orbit Coupling and Kinetics in Reaction $W + NH_3 \rightarrow NWH_3$
Si YB, Zhang WW, Zhao Y
JOURNAL OF PHYSICAL CHEMISTRY A 116(10) (2012) 2583-2590 419
212. Electron Mobilities of n-Type Organic Semiconductors from Time-Dependent Wavepacket Diffusion Method:
Pentacenequinone Derivatives
Zhang WW, Zhong XX, Zhao Y
JOURNAL OF PHYSICAL CHEMISTRY A 116(46) (2012) 11075-11082 420
213. QM/MM Molecular Dynamics Study of Purine-Specific Nucleoside Hydrolase
Wu RB, Gong WJ, Ting L, Zhang YK, Cao ZX
JOURNAL OF PHYSICAL CHEMISTRY B 116(6) (2012) 1984-1991 421
214. Single-Molecule Force Spectroscopic Studies on Intra- and Intermolecular Interactions of G-Quadruplex Aptamer with
Target Shp2 Protein
Zhao XQ, Wu J, Liang JH, Yan JW, Zhu Z, Yang CYJ, Mao BW
JOURNAL OF PHYSICAL CHEMISTRY B 116(37) (2012) 11397-11404 422
215. Intramolecular Electronic Couplings in Class II/III Organic Mixed-Valence Systems of Bis(1,4-dimethoxybenzene)
Yang JH, Zhang WW, Si YB, Zhao Y
JOURNAL OF PHYSICAL CHEMISTRY B 116(48) (2012) 14126-14135 423
216. Electrochemically Shape-Controlled Synthesis in Deep Eutectic Solvents-A New Route to Prepare Pt Nanocrystals
Enclosed by High-Index Facets with High Catalytic Activity
Wei L, Fan YJ, Tian N, Zhou ZY, Zhao XQ, Mao BW, Sun SG
JOURNAL OF PHYSICAL CHEMISTRY C 116(2) (2012) 2040-2044 424
217. Distinctive Enhanced and Tunable Plasmon Resonant Absorption from Controllable Au@Cu₂O Nanoparticles:
Experimental and Theoretical Modeling
Liu DY, Ding SY, Lin HX, Liu BJ, Ye ZZ, Fan FR, Ren B, Tian ZQ
JOURNAL OF PHYSICAL CHEMISTRY C 116(7) (2012) 4477-4483 425
218. Photosynthetic Bacterial Light-Harvesting Antenna Complexes Adsorbed on Silica Nanoparticles Revealed by Silica
Shell-Isolated Au Nanoparticle-Enhanced Raman Spectroscopy
Du LC, Huang YF, Ren B, Weng YX
JOURNAL OF PHYSICAL CHEMISTRY C 116(12) (2012) 6993-6999 426
219. Pt-Pd Bimetallic Catalysts: Structural and Thermal Stabilities of Core-Shell and Alloyed Nanoparticles
Huang R, Wen YH, Zhu ZZ, Sun SG

- JOURNAL OF PHYSICAL CHEMISTRY C 116(15) (2012) 8664-8671427
220. Adsorption and Dissociation of Ammonia on Graphene Oxides: A First-Principles Study
Tang SB, Cao ZX
JOURNAL OF PHYSICAL CHEMISTRY C 116(15) (2012) 8778-8791428
221. Ligand-Mediated Electrocatalytic Activity of Pt Nanoparticles for Oxygen Reduction Reactions
Zhou ZY, Kang XW, Song Y, Chen SW
JOURNAL OF PHYSICAL CHEMISTRY C 116(19) (2012) 10592-10598429
222. Two-Stage Melting in Core-Shell Nanoparticles: An Atomic-Scale Perspective
Huang R, Wen YH, Zhu ZZ, Sun SG
JOURNAL OF PHYSICAL CHEMISTRY C 116(21) (2012) 11837-11841430
223. Theoretical Prediction of Triplet-Triplet Energy Transfer Rates in a Benzophenone-Fluorene-Naphthalene System
Si YB, Liang WZ, Zhao Y
JOURNAL OF PHYSICAL CHEMISTRY C 116(23) (2012) 12499-12507431
224. High Dielectric Constant and Relaxation Mechanism of Water with Hydrated Copper(II) Ions in a Cucurbit[8]uril-Based Supramolecular Architecture
Zhao HX, Liu JX, Long LS, Bokov AA, Ye ZG, Huang RB, Zheng LS
JOURNAL OF PHYSICAL CHEMISTRY C 116(27) (2012) 14199-14204432
225. The Structure-Sensitivity of n-Heptane Dehydrocyclization on Pt/SiO₂ Model Catalysts
Lundwall MJ, McClure SM, Wang X, Wang ZJ, Chen MS, Goodman DW
JOURNAL OF PHYSICAL CHEMISTRY C 116(34) (2012) 18155-18159433
226. Electronic and Magnetic Properties of Fluorinated Graphene with Different Coverage of Fluorine
Liu HY, Hou ZF, Hu CH, Yang Y, Zhu ZZ
JOURNAL OF PHYSICAL CHEMISTRY C 116(34) (2012) 18193-18201434
227. Single Molecule Conductance of Carboxylic Acids Contacting Ag and Cu Electrodes
Peng ZL, Chen ZB, Zhou XY, Sun YY, Liang JH, Niu ZJ, Zhou XS, Mao BW
JOURNAL OF PHYSICAL CHEMISTRY C 116(41) (2012) 21699-21705435
228. Effects of Salinity on Metabolic Profiles, Gene Expressions, and Antioxidant Enzymes in Halophyte *Suaeda salsa*
Wu HF, Liu XL, You LP, Zhang LB, Zhou D, Feng JH, Zhao JM, Yu JB
JOURNAL OF PLANT GROWTH REGULATION 31(3) (2012) 332-341436
229. Carbon Nanotube-Supported Pt-Co Bimetallic Catalysts for Preferential Oxidation of CO in a H₂-Rich Stream with CO₂ and H₂O Vapor
Wang C, Li BD, Lin HQ, Yuan YZ
JOURNAL OF POWER SOURCES 202 (2012) 200-208437
230. Synthesis of LiCoMnO₄ via a Sol-Gel Method and Its Application in High Power LiCoMnO₄/Li₄Ti₅O₁₂ Lithium-Ion

Batteries

- Huang XK, Lin M, Tong QS, Li XH, Ruan Y, Yang Y
JOURNAL OF POWER SOURCES 202 (2012) 352-356438
231. Sol-Gel Synthesis of $\text{Li}_2\text{CoPO}_4\text{F}/\text{C}$ Nanocomposite as a High Power Cathode Material for Lithium Ion Batteries
Wu XB, Gong ZL, Tan S, Yang Y
JOURNAL OF POWER SOURCES 220 (2012) 122-129439
232. Synthesis of Ultrathin and Compact $\text{Au}@\text{MnO}_2$ Nanoparticles for Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy (SHINERS)
Lin XD, Uzayisenga V, Li JF, Fang PP, Wu DY, Ren B, Tian ZQ
JOURNAL OF RAMAN SPECTROSCOPY 43(1) (2012) 40-45440
233. Adsorption and Reduction Reactions of Anthraquinone Derivatives on Gold Electrodes Studied with Electrochemical Surface-Enhanced Raman Spectroscopy
Dai K, Huang R, Jiang R, Ke HX, Li F, Jin S, Wu DY, Tian ZQ
JOURNAL OF RAMAN SPECTROSCOPY 43(10) (2012) 1367-1373441
234. Controllable Synthesis, Magnetic and Biocompatible Properties of Fe_3O_4 and $\alpha\text{-Fe}_2\text{O}_3$ Nanocrystals
Zhou X, Shi YF, Ren L, Bao SX, Han Y, Wu SC, Zhang HG, Zhong LB, Zhang QQ
JOURNAL OF SOLID STATE CHEMISTRY 196 (2012) 138-144442
235. Step-by-Step Assembly of 4d-4f-3d Complex Based on Heptamolybdate Anion
Wu ST, Deng BB, Jiang XL, Li RH, Guo JB, Lai FL, Huang XH, Huang CC
JOURNAL OF SOLID STATE CHEMISTRY 196 (2012) 451-457443
236. Titanium Phosphates as Positive Electrode in Lithium-Ion Batteries: Composition, Phase Purity and Electrochemical Performance
Attia A, Wang Q, Huang XK, Yang Y
JOURNAL OF SOLID STATE ELECTROCHEMISTRY 16(4) (2012) 1461-1471444
237. Chameleon Ground State and Excited States of EDT-TTF-IM- F_4TCNQ Radical Dyad in Different Environments
Zhou YH, Tan K, Lu X
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY
11(3) (2012) 505-525445
238. Insights into the Solvato-/Thermo-Promoted Intramolecular Electron Transfer in a TTF- σ -TCNQ DYAD with an Extremely Low HOMO-LUMO Gap
Zhou YH, Tan K, Lu X
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY
11(3) (2012) 599-609446

239. Theoretical Study of Photo-Physical Processes in 2-Aryl Substituted Indoles
 Zheng ZL, Zhao Y, Nanbu S
 JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY
 11(06)
 (2012)1311-1322447
240. Highly Sensitive and Quantitative Detection of Rare Pathogens through Agarose Droplet Microfluidic Emulsion PCR at the Single-Cell Level
 Zhu Z, Zhang WH, Leng XF, Zhang MX, Guan ZC, Lu JQ, Yang CYJ
 LAB ON A CHIP 12(20) (2012) 3907-3913448
241. Synthesis, Characterization, and 3D-FDTD Simulation of Ag@SiO₂ Nanoparticles for Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy
 Uzayisenga V, Lin XD, Li LM, Anema JR, Yang ZL, Huang YF, Lin HX, Li SB, Li JF, Tian ZQ
 LANGMUIR 28(24) (2012) 9140-9146449
242. Electrochemical Impedance Spectroscopy and Atomic Force Microscopic Studies of Electrical and Mechanical Properties of Nano-Black Lipid Membranes and Size Dependence
 Zhu ZW, Wang Y, Zhang X, Sun CF, Li MG, Yan JW, Mao BW
 LANGMUIR 28(41) (2012) 14739-14746450
243. Structural Investigations and Growth Mechanism of Well-Defined Ag Dendrites Prepared by Conventional Redox Displacement
 Jiang ZY, Lin Y, Xie ZX
 MATERIALS CHEMISTRY AND PHYSICS 134(2-3) (2012) 762-767451
244. Synthesis of Zn₂SnO₄ Nanoplate-Built Hierarchical Cube-Like Structures with Enhanced Gas-Sensing Property
 Jiang YQ, He CX, Sun R, Xie ZX, Zheng LS
 MATERIALS CHEMISTRY AND PHYSICS 136(2-3) (2012) 698-704452
245. Blood-Brain Barrier Transport of Tat Peptide and Polyethylene Glycol Decorated Gelatin-Siloxane Nanoparticle
 Tian XH, Wei F, Wang TX, Wang D, Wang J, Lin XN, Wang P, Ren L
 MATERIALS LETTERS 68 (2012) 94-96453
246. Optical-Fiber/TiO₂-Nanowire-Arrays Hybrid Structures with Tubular Counterelectrode for Dye-Sensitized Solar Cell
 Guo WX, Xu C, Zhu G, Pan CF, Lin CJ, Wang ZL
 NANO ENERGY 1(1) (2012) 176-182454
247. Flexible Triboelectric Generator
 Fan FR, Tian ZQ, Wang ZL
 NANO ENERGY 1(2) (2012) 328-334455
248. A Novel Clinically Translatable Fluorescent Nanoparticle for Targeted Molecular Imaging of Tumors in Living Subjects
 Gao JH, Chen K, Luong R, Bouley DM, Mao H, Qiao TC, Gambhir SS, Cheng Z

NANO LETTERS	12(1) (2012) 281-286	456
249. An Integrated Power Pack of Dye-Sensitized Solar Cell and Li Battery Based on Double-Sided TiO ₂ Nanotube Arrays Guo WX, Xue XY, Wang SH, Lin CJ, Wang ZL	NANO LETTERS 12(5) (2012) 2520-2523	462
250. Transparent Triboelectric Nanogenerators and Self-Powered Pressure Sensors Based on Micropatterned Plastic Films Fan FR, Lin L, Zhu G, Wu WZ, Zhang R, Wang ZL	NANO LETTERS 12(6) (2012) 3109-3114	463
251. Synergistic Effects of Cell-Penetrating Peptide Tat and Fusogenic Peptide HA2-Enhanced Cellular Internalization and Gene Transduction of Organosilica Nanoparticles Ye SF, Tian MM, Wang TX, Ren L, Wang D, Shen LH, Shang T	NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE 8(6)	(2012) 833-841
252. Facile Syntheses and Enhanced Electrocatalytic Activities of Pt Nanocrystals with <i>{hkk}</i> High-Index Surfaces Zhang L, Chen DQ, Jiang ZY, Zhang JW, Xie SF, Kuang Q, Xie ZX, Zheng LS	NANO RESEARCH 5(3) (2012) 181-189	465
253. Synthesis of Spatially Uniform Metal Alloys Nanocrystals via a Diffusion Controlled Growth Strategy: The Case of Au-Pd Alloy Trisoctahedral Nanocrystals with Tunable Composition Zhang JW, Zhang L, Jia YY, Chen GX, Wang X, Kuang Q, Xie ZX, Zheng LS	NANO RESEARCH 5(9) (2012) 618-629	466
254. A Composite Material of Uniformly Dispersed Sulfur on Reduced Graphene Oxide: Aqueous One-Pot Synthesis, Characterization and Excellent Performance as the Cathode in Rechargeable Lithium-Sulfur Batteries Sun H, Xu GL, Xu YF, Sun SG, Zhang XF, Qiu YC, Yang SH	NANO RESEARCH 5(10) (2012) 726-738	467
255. Hierarchical WO ₃ Flowers Comprising Porous Single-Crystalline Nanoplates Show Enhanced Lithium Storage and Photocatalysis Qiu YC, Xu GL, Kuang Q, Sun SG, Yang SH	NANO RESEARCH 5(11) (2012) 826-832	468
256. Densely Aligned Rutile TiO ₂ Nanorod Arrays with High Surface Area for Efficient Dye-Sensitized Solar Cells Lv MQ, Zheng DJ, Ye MD, Sun L, Xiao J, Guo WX, Lin CJ	NANOSCALE 4(19) (2012) 5872-5879	469
257. Rational Design of Oriented Assembly of Gold Nanospheres with Nanorods by Biotin-Streptavidin Connectors Zhou X, Wang Y, Zhong LB, Bao SX, Han Y, Ren L, Zhang QQ	NANOSCALE 4(20) (2012) 6256-6259	470

258. Synthesis of Size-Controlled Monodisperse Pd Nanoparticles via a Non-Aqueous Seed-Mediated Growth
Zhang L, Wang L, Jiang ZY, Xie ZX
NANOSCALE RESEARCH LETTERS 7 (2012) 312471
259. Activation of Boron Nitride Nanotubes and Their Polymer Composites for Improving Mechanical Performance
Zhou SJ, Ma CY, Meng YY, Su HF, Zhu Z, Deng SL, Xie SY
NANOTECHNOLOGY 23(5) (2012) 055708472
260. Rapid Microwave-Enhanced Hydrothermal Synthesis and Shape Evolution of Uniform NaGdF₄:Yb, Er (Tm/Ho) Nanocrystals with Upconversion and Paramagnetic Properties
Wang D, Ren L, Zhou X, Wang XZ, Zhou J, Han Y, Kang N
NANOTECHNOLOGY 23(22) (2012) 225705473
261. Quadruple Bonding in C₂ and Analogous Eight-Valence Electron Species
Shaik S, Danovich D, Wu W, Su PF, Rzepa HS, Hiberty PC
NATURE CHEMISTRY 4(3) (2012) 195-200474
262. High-Resolution NMR Spectroscopy in Inhomogeneous Fields via Hadamard-Encoded Intermolecular Double-Quantum Coherences
Chen YS, Cai SH, Cai CB, Cui XH, Chen Z
NMR IN BIOMEDICINE 25(9) (2012) 1088-1094475
263. A Bis-Bisurea Receptor with the RR-Cyclohexane-1,2-Diamino Spacer for Phosphate and Sulfate Ions
Wei MY, Wu B, Zhao L, Zhang H, Li SG, Zhao YX, Yang XJ
ORGANIC & BIOMOLECULAR CHEMISTRY 10(44) (2012) 8758-8761476
264. Theoretical Studies on Grignard Reagent Formation: Radical Mechanism versus Non-Radical Mechanism
Chen ZN, Fu G, Xu X
ORGANIC & BIOMOLECULAR CHEMISTRY 10(47) (2012) 9491-9500477
265. Syntheses and Reactions of Derivatives of (Pyrrolylaldiminato)germanium(II) and -Aluminum(III)
Yang Y, Zhao N, Zhu HP, Roesky HW
ORGANOMETALLICS 31(5) (2012) 1958-1964478
266. Butylphenyl-Functionalized Pt Nanoparticles as CO-Resistant Electrocatalysts for Formic Acid Oxidation
Zhou ZY, Ren J, Kang XW, Song Y, Sun SG, Chen SW
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(4) (2012) 1412-1417479
267. Electrochemical and Electronic Properties of LiCoO₂ Cathode Investigated by Galvanostatic Cycling and EIS
Qiu XY, Zhuang QC, Zhang QQ, Cao R, Ying PZ, Qiang YH, Sun SG
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(8) (2012) 2617-2630480
268. Theoretical Study of Photo-Physical Properties of Indolylmaleimide Derivatives
Zheng ZL, Zhao Y, Nakazono M, Nanbu S

- PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(9) (2012) 3017-3024 481
269. A Hierarchical Architecture S/MWCNT Nanomicrosphere with Large Pores for Lithium Sulfur Batteries
Chen JJ, Zhang Q, Shi YN, Qin LL, Cao Y, Zheng MS, Dong QF
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(16) (2012) 5376-5382 482
270. Mechanistic Aspects of Photo-Induced Formation of Peroxide Ions on the Surface of Cubic Ln_2O_3 (Ln = Nd, Sm, Gd) under Oxygen
Jing XL, Chen QC, He C, Zhu XQ, Weng WZ, Xia WS, Wan HL
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(19) (2012) 6898-6904 483
271. Structural Properties and Energetics of $\text{Li}_2\text{FeSiO}_4$ Polymorphs and Their Delithiated Products from First-Principles
Zhang P, Hu CH, Wu SQ, Zhu ZZ, Yang Y
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(20) (2012) 7346-7351 484
272. Surface-Enhanced Raman Spectroscopic Study of *p*-Aminothiophenol
Huang YF, Wu DY, Zhu HP, Zhao LB, Liu GK, Ren B, Tian ZQ
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(24) (2012) 8485-8497 485
273. A Theoretical Exploration of Unexpected Amine $\cdots\pi$ Interactions
Yang T, An JJ, Wang X, Wu DY, Chen WB, Fossey JS
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(30) (2012) 10747-10753 486
274. XYG3 and XYGJ-OS Performances for Noncovalent Binding Energies Relevant to Biomolecular Structures
Zhang IY, Xu X
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(36) (2012) 12554-12570 487
275. Significant Effect of Spin Flip on the Oxygen Atom Transfer Reaction from (oxo)manganese(v) Corroles to Thioanisole: Insights from Density Functional Calculations
Zhu C, Liang JX, Wang BJ, Zhu J, Cao ZX
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(37) (2012) 12800-12806 488
276. A DFT Study on Photoinduced Surface Catalytic Coupling Reactions on Nanostructured Silver: Selective Formation of Azobenzene Derivatives from Para-Substituted Nitrobenzene and Aniline
Zhao LB, Huang YF, Liu XM, Anema JR, Wu DY, Ren B, Tian ZQ
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(37) (2012) 12919-12929 489
277. Is C_{60} Buckminsterfullerene Aromatic?
Chen ZF, Wu JI, Corminboeuf C, Bohmann J, Lu X, Hirsch A, Schleyer PV
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 14(43) (2012) 14886-14891 490
278. Enhancing the Activity and Tuning the Mechanism of Formic Acid Oxidation at Tetrahedral Pt Nanocrystals by Au Decoration
Liu HX, Tian N, Brandon MP, Pei J, Huangfu ZC, Zhan C, Zhou ZY, Hardacre C, Lin WF, Sun SG

PHYSICAL CHEMISTRY CHEMICAL PHYSICS	14(47) (2012) 16415-16423	491
279. Facile Synthesis of a Platinum-Lead Oxide Nanocomposite Catalyst with High Activity and Durability for Ethanol Electrooxidation Yang WH, Wang HH, Chen DH, Zhou ZY, Sun SG	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	14(47) (2012) 16424-16432
		492
280. Site-Dependent Catalytic Activity of Graphene Oxides towards Oxidative Dehydrogenation of Propane Tang SB, Cao ZX	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	14(48) (2012) 16558-16565
		493
281. A New Insight into the Initial Step in the Fischer-Tropsch Synthesis: CO Dissociation on Ru Surfaces Li HP, Fu G, Xu X	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	14(48) (2012) 16686-16694
		494
282. Hybrid Molecular Dynamics and First-Principles Study on the Work Function of a Pt(111) Electrode Immersed in Aqueous Solution at Room Temperature Duan S, Xu X, Tian ZQ, Luo Y	PHYSICAL REVIEW B	86(4) (2012) 045450
		495
283. Salinity-Induced Effects in the Halophyte <i>Suaeda salsa</i> Using NMR-Based Metabolomics Wu HF, Liu XL, You LP, Zhang LB, Yu JB, Zhou D, Zhao JM, Feng JH	PLANT MOLECULAR BIOLOGY REPORTER	30(3) (2012) 590-598
		496
284. Identification, Characterization and Application of a G-Quadruplex Structured DNA Aptamer against Cancer Biomarker Protein Anterior Gradient Homolog 2 Wu J, Wang C, Li XL, Song YL, Wang W, Li C, Hu J, Zhu Z, Li JX, Zhang WY, Lu ZX, Yang CYJ	PLOS ONE	7(9) (2012) e46393
		497
285. Selection of DNA Aptamers against Glioblastoma Cells with High Affinity and Specificity Kang DZ, Wang JJ, Zhang WY, Song YL, Li XL, Zou Y, Zhu MT, Zhu Z, Chen FY, Yang CYJ	PLOS ONE	7(10) (2012) e42731
		498
286. Monomeric Peroxo Titanate Coordinated with Cyclohexanediaminetetraacetate: Towards the Active Oxygen Species of the Ti(IV) Site Hosted in the Titanium Silicalite Catalyst TS-1 Liu QX, Zhou ZH	POLYHEDRON	35(1) (2012) 1-6
		499
287. Conversion of a Highly Water-Soluble Acidic Coordination Polymer Constructed by 1,3-Propanediaminetetraacetato Zinc Nitrate to Its Bromide and Isothiocyanate Derivatives Chen ML, Yang F, Zhou ZH	POLYHEDRON	47(1) (2012) 60-64
		500
288. Recent Progress in Corrosion Protection of Magnesium Alloys by Organic Coatings		

- Hu RG, Zhang S, Bu JF, Lin CJ, Song GL
 PROGRESS IN ORGANIC COATINGS 73(2-3) (2012) 129-141501
289. Study of Hydrogen Spillover on Double-Function Hydrocracking Catalysts
 Yuan SH, Jin H, Xia WS, Yi XD, Fang WP
 REACTION KINETICS MECHANISMS AND CATALYSIS
 106(2) (2012)
 475-484502
290. Carbonate Ions-Assisted Syntheses of Anatase TiO₂ Nanoparticles Exposed with High Energy (001) Facets
 Han XG, Wang X, Xie SF, Kuang Q, Ouyang JJ, Xie ZX, Zheng LS
 RSC ADVANCES 2(8) (2012) 3251-3253503
291. Functionalization of Graphene by Tetraphenylethylene Using Nitrene Chemistry
 Xu XJ, Lv W, Huang J, Li JJ, Tang RL, Yan JW, Yang QH, Qin JG, Li Z
 RSC ADVANCES 2(18) (2012) 7042-7047504
292. Thermal and Photoinduced Valence Tautomerism of a Chain Compound
 Chen LQ, Wei RJ, Tao J, Huang RB, Zheng LS
 SCIENCE CHINA-CHEMISTRY 55(6) (2012) 1037-1041505
293. Interaction of Citrate with Pt(100) Surface Investigated by Cyclic Voltammetry towards Understanding the Structure-Tuning Effect in Nanomaterials Synthesis
 Chen DH, Ye JY, Xu CD, Li X, Li JT, Zhen CH, Tian N, Zhou ZY, Sun SG
 SCIENCE CHINA-CHEMISTRY 55(11) (2012) 2353-2358506
294. Mechanism of Cellular Uptake of Graphene Oxide Studied by Surface-Enhanced Raman Spectroscopy
 Huang J, Zong C, Shen H, Liu M, Chen BA, Ren B, Zhang ZJ
 SMALL 8(16) (2012) 2577-2584507
295. Pd Nanosheet-Covered Hollow Mesoporous Silica Nanoparticles as a Platform for the Chemo-Photothermal Treatment of Cancer Cells
 Fang WJ, Tang SH, Liu PX, Fang XL, Gong JW, Zheng NF
 SMALL 8(24) (2012) 3816-3822515
296. A Colloidal Supra-Structure of Responsive Microgels as a Potential Cell Scaffold
 Shen J, Ye T, Chang AP, Wu WT, Zhou SQ
 SOFT MATTER 8(48) (2012) 12034-12042522
297. Functionalized Dihydronaphthyl-C₆₀ Derivatives as Acceptors for Efficient Polymer Solar Cells with Tunable Photovoltaic Properties
 Deng LL, Feng J, Sun LC, Wang S, Xie SL, Xie SY, Huang RB, Zheng LS
 SOLAR ENERGY MATERIALS AND SOLAR CELLS 104 (2012) 113-120523

298. First-Principles Studies on the Structural and Electronic Properties of Li-Ion Battery Cathode Material CuF_2
 Zheng Y, Zhang P, Wu SQ, Wen YH, Zhu ZZ, Yang Y
 SOLID STATE COMMUNICATIONS 152(17) (2012) 1703-1706524
299. Growth and Vibrational Properties of MnO_x Thin Films on Rh(111)
 Zhang LH, Tang ZY, Wang SL, Ding D, Chen MS, Wan HL
 SURFACE SCIENCE 606(19-20) (2012) 1507-1511525
300. Effects of Iron Ion Contents on Composition, Morphology, Structure and Properties of Chromium Coatings
 Electrodeposited from Novel Trivalent Chromium Sulphate Electrolyte
 Jiang YF, Yang FZ, Tian ZQ, Zhou SM
 TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING
 90(2) (2012) (2012)
 86-91526
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 Su YZ, Yan JW, Li MG, Xie ZX, Mao BW, Tian ZQ
 ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL
 OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS
 226(9-10) (2012) 979-994527

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Luo WL, Su YQ, Tian XD, Zhao LB, Wu DY, Tian ZQ
ACTA PHYSICO-CHIMICA SINICA 28(12) (2012) 2767-2773
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CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE 33(2) (2012) 331-335

317. Electrochemical Study of Au@Pt Nanoparticles for Oxygen Reduction Reaction
Deng XC, Tian XD, Wen FP, Yi F, Cheng MQ, Zhong QL, Yan JW, Ren B, Tian ZQ
CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE 33(2) (2012) 336-340
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CHEMICAL RESEARCH IN CHINESE UNIVERSITIES 28(6) (2012) 1061-1065
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Yu SL, Li YY, Dong ZR, Gao JX
CHINESE CHEMICAL LETTERS 23(4) (2012) 395-398
322. Asymmetric Transfer Hydrogenation of Ketones Catalyzed by Nickel Complex with New PNO-Type Ligands
Dong ZR, Li YY, Yu SL, Sun GS, Gao JX
CHINESE CHEMICAL LETTERS 23(5) (2012) 533-536
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Wen ZG, Li H, Weng WZ, Xia WS, Huang CJ, Wan HL
CHINESE JOURNAL OF CATALYSIS 33(7) (2012) 1183-1190
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CHINESE JOURNAL OF CATALYSIS 33(12) (2012) 1901-1905
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Chen Z, Chen ZN, Wu AA, Xiong ZT, Chen P, Xu X
CHINESE JOURNAL OF CHEMICAL PHYSICS 25(6) (2012) 676-680
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Zhu C, Cao ZX
CHINESE JOURNAL OF STRUCTURAL CHEMISTRY 31(5) (2012) 645-654
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ELECTROPLATING & FINISHING 31(8) (2012) 7-10
331. Preparation and Performance of Nanosized La_2O_3
Wang LH, Yi XD
JOURNAL OF FUJIAN NORMAL UNIVERSITY(NATURAL SCIENCE EDITION)
28(4) (2012) 60-63
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Qi HQ, Zhu YF, Zhang J, Du RG, Lin CJ
JOURNAL OF FUNCTIONAL MATERIALS 43(9) (2012) 1147-1150
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Zhou YL, Hu DJ, Zhang DX, Sun W
NANOTECHNOLOGY AND PRECISION ENGINEERING 10(6) (2012) 475-480
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PROGRESS IN CHEMISTRY 24(6) (2012) 928-949
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JOURNAL OF FUEL CHEMISTRY AND TECHNOLOGY 40(4) (2012) 418-423

338. Effects of Alkaline-Earth Strontium on the Performance of Co/Al₂O₃ Catalyst for Methane Partial Oxidation
Yu CL, Zhou XC, Weng WZ, Hu JB, Chen XR, Wei LF
JOURNAL OF FUEL CHEMISTRY AND TECHNOLOGY 40(10) (2012) 1222-1229
339. *In situ* XRD and Solid State NMR Characterization of Na₃V₂(PO₄)₂F₃ as Cathode Material for Lithium-Ion Batteries
Hao XG, Liu ZK, Gong ZL, Wen W, Tan S, Yang Y
SCIENTIA SINICA CHIMICA 42(1) (2012) 38-46
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