

固体表面物理化学国家重点实验室

2014 年报论文目录

A 类 专著章节与主要研究论文

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Royal Society of Chemistry, Editors: Jay D Wadhawan Richard G Compton
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92. High-Resolution ¹H NMR Spectra from Inhomogeneous Fields Based on Intermolecular Multiple-Quantum Coherences between Proton and Quadrupolar Nuclei
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93. Generation of Gold Carbenes in Water: Efficient Intermolecular Trapping of the α -oxo Gold Carbenoids by Indoles and Anilines
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94. What Molecular Assembly Can Learn from Catalytic Chemistry
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95. Recent Advances in Heterogeneous Selective Oxidation Catalysis for Sustainable Chemistry
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CHEMICAL SOCIETY REVIEWS 43(10) (2014) 3480-3524 [PDF](#)
96. Composite PET Membrane with Nanostructured Ag/AgTCNQ Schottky Junctions: Electrochemical Nanofabrication and Charge-Transfer Properties
Huang L, Chen Y, Bian SJ, Huang YF, Tian ZQ, Zhan DP
CHEMISTRY-A EUROPEAN JOURNAL 20(3) (2014) 724-728 [PDF](#)
97. *m*-Metallaphenol: Synthesis and Reactivity Studies
Han FF, Wang TD, Li JH, Zhang H, Xia HP
CHEMISTRY-A EUROPEAN JOURNAL 20(15) (2014) 4363-4372 [PDF](#)
98. Organic-Inorganic Interface-Induced Multi-Fluorescence of MgO Nanocrystal Clusters and Their Applications in Cellular Imaging
Xie SF, Bao SX, Ouyang JJ, Zhou X, Kuang Q, Xie ZX, Zheng LS
CHEMISTRY-A EUROPEAN JOURNAL 20(18) (2014) 5244-5252 [PDF](#)
99. The Nature of the Fourth Bond in the Ground State of C₂: the Quadruple Bond Conundrum
Danovich D, Hiberty PC, Wu W, Rzepa HS, Shaik S
CHEMISTRY-A EUROPEAN JOURNAL 20(21) (2014) 6220-6232 [PDF](#)
100. On the Nature of Blue Shifting Hydrogen Bonds
Mo YR, Wang CW, Guan LY, Braida B, Hiberty PC, Wu W

- CHEMISTRY-A EUROPEAN JOURNAL 20(27) (2014) 8444-8452 [PDF](#)
101. Gold-Catalyzed 6-*Exo-Dig* Cycloisomerization: a Versatile Approach to Functionalized Phenanthrenes
Shu C, Li L, Chen CB, Shen HC, Ye LW
CHEMISTRY-AN ASIAN JOURNAL 9(6) (2014) 1525-1529 [PDF](#)
102. A Comparative Study of Size Effects in the Au-Catalyzed Oxidative and Non-Oxidative Dehydrogenation of Benzyl Alcohol
Chen JS, Fang WH, Zhang QH, Deng WP, Wang Y
CHEMISTRY-AN ASIAN JOURNAL 9(8) (2014) 2187-2196 [PDF](#)
103. Local Structure and Dynamics in the Na Ion Battery Positive Electrode Material $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$
Liu ZG, Hu YY, Dunstan MT, Huo H, Hao XG, Zou H, Zhong GM, Yang Y, Grey CP
CHEMISTRY OF MATERIALS 26(8) (2014) 2513-2521 [PDF](#)
104. Recent Progress in Research on High-Voltage Electrolytes for Lithium-Ion Batteries
Tan S, Ji YJ, Zhang ZR, Yang Y
CHEMPHYSICHEM 15(10) (2014) 1956-1969 [PDF](#)
105. Fischer-Tropsch Catalysts for the Production of Hydrocarbon Fuels with High Selectivity
Zhang QH, Cheng K, Kang JC, Deng WP, Wang Y
CHEMSUSCHEM 7(5) (2014) 1251-1264 [PDF](#)
106. Controlling the Size and Composition of Nanosized Pt-Ni Octahedra to Optimize their Catalytic Activities toward the Oxygen Reduction Reaction
Choi SI, Xie SF, Shao MH, Lu N, Guerrero S, Odell JH, Park J, Wang JG, Kim MJ, Xia YN
CHEMSUSCHEM 7(5) (2014) 1476-1483 [PDF](#)
107. Transformation of Cellulose and Its Derived Carbohydrates into Formic and Lactic Acids Catalyzed by Vanadyl Cations
Tang ZC, Deng WP, Wang YL, Zhu EZ, Wan XY, Zhang QH, Wang Y
CHEMSUSCHEM 7(6) (2014) 1557-1567 [PDF](#)
108. Growth of Hierarchical 3D Mesoporous $\text{NiSi}_x/\text{NiCo}_2\text{O}_4$ Core/Shell Heterostructures on Nickel Foam for Lithium-Ion Batteries
Zhang QB, Chen HX, Wang JX, Xu DG, Li XH, Yang Y, Zhang KL
CHEMSUSCHEM 7(8) (2014) 2325-2334 [PDF](#)
109. Synthesis of One-Dimensional Copper Sulfide Nanorods as High-Performance Anode in Lithium Ion Batteries
Li X, He XY, Shi CM, Liu B, Zhang YY, Wu SQ, Zhu ZZ, Zhao JB
CHEMSUSCHEM 7(12) (2014) 3328-3333 [PDF](#)
110. Synthesis Crystal Structure Spectroscopy and Magnetism of a Trinuclear Nickel(II) Complex with 3,5-Pyrazoledicarboxylic Acid as Bridge Ligands
Qi J, Wang QL, Zhang AP, Tian JL, Yan SP, Cheng P, Yang GM, Liao DZ
COMPTE RENDUS CHIMIE 17(5) (2014) 490-495 [PDF](#)
111. Density Functional Theory Study on the "Molecular Taekwondo" Process of Pyrene-Armed

- Calix[4]Azacrowns
Li L, Li M, Wang XY, Wang Q
COMPUTATIONAL AND THEORETICAL CHEMISTRY 1031 (2014) 40-49 [PDF](#)
112. Ligand Effect on the Cui-Catalyzed C-S Coupling Reaction: a Density Functional Theoretical Study
Li LC, Sun FF, Pang R, Wu DY
COMPUTATIONAL AND THEORETICAL CHEMISTRY 1038 (2014) 40-48 [PDF](#)
113. Theoretical Investigations on Electronic and Charge Transport Properties of Novel Organic Semiconductors-Triisopropylsilylethynyl(TIPS)-Functionalized Anthradifuran and Anthradithiophene Derivatives
Wu RM, Liu HX, Ao MZ, Wu DY, Wang X
COMPUTATIONAL AND THEORETICAL CHEMISTRY 1046 (2014) 107-117 [PDF](#)
114. Hybrid Density Functional Investigations of Li_2MSiO_4 (M = Mn Fe and Co) Cathode Materials
Zhang P, Zheng Y, Wu SQ, Zhu ZZ, Yang Y
COMPUTATIONAL MATERIALS SCIENCE 83 (2014) 45-50 [PDF](#)
115. Solvent-Mediated Isomerization of Fe^{II} Complexes from a 3D $6^5 \cdot 8$ Framework to a 2D 4^4 Rhombus-Grid Network
Wu XR, Yang X, Wei RJ, Li J, Zheng LS, Tao J
CRYSTAL GROWTH & DESIGN 14(10) (2014) 4891-4894 [PDF](#)
116. One-Pot Synthesis of Pd-Pt@Pd Core-Shell Nanocrystals with Enhanced Electrocatalytic Activity for Formic Acid Oxidation
Yuan Q, Huang DB, Wang HH, Zhou ZY, Wang QX
CRYSTENGCOMM 16(13) (2014) 2560-2564 [PDF](#)
117. Synthesis Characterization Crystal Structures and Thermal and Photolumi Coordination Polymers with Various Multinuclear Silver Units
Wang ZH, Wang DF, Zhang T, Huang RB, Zheng LS
CRYSTENGCOMM 16(23) (2014) 5028-5039 [PDF](#)
118. Myo-Inositol Supported Heterometallic Dy_{24}M_2 (M = Ni, Mn) Cages
Liu DP, Peng JB, Lin XP, Huang Q, Kong XJ, Long LS, Huang RB, Zheng LS
CRYSTENGCOMM 16(25) (2014) 5527-5530 [PDF](#)
119. Substitution of Gadolinium Ethylenediaminetetraacetate with Phosphites: Towards Gadolinium Deposit in Nephrogenic Systemic Fibrosis
Gao S, Chen ML, Zhou ZH
DALTON TRANSACTIONS 43(2) (2014) 639-645 [PDF](#)
120. A Spectroscopic Study on the Coordination and Solution Structures of the Interaction Systems between Biperoxidovanadate Complexes and the Pyrazolylpyridine-Like Ligands
Yu XY, Deng L, Zheng BS, Zeng BR, Yi PG, Xu X
DALTON TRANSACTIONS 43(4) (2014) 1524-1533 [PDF](#)
121. A Lanthanum Chelate Possessing an Open-Channel Framework with Water Nanotubes: Properties and Desalination

- Chen ML, Guo YC, Yang F, Liang JX, Cao ZX, Zhou ZH
DALTON TRANSACTIONS 43(16) (2014) 6026-6031 [PDF](#)
122. Theoretical Study on the Stability of Osmasilabenzynes
Huang Y, Wang XR, An K, Fan JL, Zhu J
DALTON TRANSACTIONS 43(20) (2014) 7570-7576 [PDF](#)
123. Dimeric 1,3-Propanediaminetetraacetato Lanthanides as the Precursors of Catalysts for the Oxidative Coupling of Methane
Chen ML, Hou YH, Xia WS, Weng WZ, Cao ZX, Zhou ZH, Wan HL
DALTON TRANSACTIONS 43(23) (2014) 8690-8697 [PDF](#)
124. A Highly Selective Colorimetric Chemosensor for Cobalt(II) Ions Based on a Tripodal Amide Ligand
Zhou JR, Liu DP, He Y, Kong XJ, Zhang ZM, Ren YP, Long LS, Huang RB, Zheng LS
DALTON TRANSACTIONS 43(30) (2014) 11579-11586 [PDF](#)
125. Synthesis Structure and a Nucleophilic Coordination Reaction of Germaneteluronones
Li B, Li Y, Zhao N, Chen YF, Chen YJ, Fu G, Zhu HP, Ding YL
DALTON TRANSACTIONS 43(31) (2014) 12100-12108 [PDF](#)
126. Facile Synthesis of Platinum Alloy Nanoparticles with Enhanced Activity for Ethylene Glycol Electro-Oxidation
Zhang QH, Yang WH, Wang HH, Wang MQ, Cai CJ
ECS ELECTROCHEMISTRY LETTERS 3(12) (2014) F73-F75 [PDF](#)
127. *In Situ* FT-IR Investigation of Methanol and CO Electrooxidation on Cubic and Octahedral/Tetrahedral Pt Nanoparticles Having Residual PVP
Levendorf AM, Sun SG, Tong YYJ
ELECTROCATALYSIS 5(3) (2014) 248-255 [PDF](#)
128. A New Strategy for Eliminating Interference from EC' Mechanism During Analytical Measurements Based on Plane-Band-Recessed Microdisk Array Electrodes
Pang SW, Yan JW, Zhu F, He DW, Mao BW, Oleinick A, Svir I, Amatore C
ELECTROCHEMISTRY COMMUNICATIONS 38 (2014) 61-64 [PDF](#)
129. Iridium Oxide Based Coaxial Ph Ultramicroelectrode
Huang XR, Ren QQ, Yuan XJ, Wen W, Chen W, Zhan DP
ELECTROCHEMISTRY COMMUNICATIONS 40 (2014) 35-37 [PDF](#)
130. A Hierarchical Micro/Nanostructured $0.5\text{Li}_2\text{MnO}_3 \cdot 0.5\text{LiMn}_{0.4}\text{Ni}_{0.3}\text{Co}_{0.3}\text{O}_2$ Material Synthesized by Solvothermal Route as High Rate Cathode of Lithium Ion Battery
Fu F, Deng YP, Shen CH, Xu GL, Peng XX, Wang Q, Xu YF, Fang JC, Huang L, Sun SG
ELECTROCHEMISTRY COMMUNICATIONS 44 (2014) 54-58 [PDF](#)
131. Conductance of Alkyl-Based Molecules with One Two and Three Chains Measured by Electrochemical STM Break Junction
Wang YH, Li DF, Hong ZW, Liang JH, Han D, Zheng JF, Niu ZJ, Mao BW, Zhou XS
ELECTROCHEMISTRY COMMUNICATIONS 45 (2014) 83-86 [PDF](#)

132. Gold Atomic Contact: Electron Conduction in the Presence of Interfacial Charge Transfer
Chen ZB, Peng ZL, Liang JH, Zhou XS, Wu DY, Amatore C, Mao BW
ELECTROCHEMISTRY COMMUNICATIONS 47 (2014) 41-44 [PDF](#)
133. Determination of Adsorbed Species of Hypophosphite Electrooxidation on Ni Electrode by *in Situ* Infrared with Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy
Jiang YF, Jiang B, Yang LK, Zhang M, Zhao LB, Yang FZ, Cai WB, Wu DY, Zhou ZY, Tian ZQ
ELECTROCHEMISTRY COMMUNICATIONS 48 (2014) 5-9 [PDF](#)
134. Reduced Graphene Oxide Supported MnO Nanoparticles with Excellent Lithium Storage Performance
Zhang J, Qian H, Wei ZK, Cao Y, Zheng MS, Dong QF
ELECTROCHIMICA ACTA 118 (2014) 112-117 [PDF](#)
135. Ultra Long Rutile TiO₂ Nanorod Arrays with Large Surface Area for CdS/CdSe Quantum Dot-sensitized Solar Cells
Chen C, Ye MD, Lv MQ, Gong C, Guo WX, Lin CJ
ELECTROCHIMICA ACTA 121 (2014) 175-182 [PDF](#)
136. Fabrication of Heterostructured SrTiO₃/TiO₂ Nanotube Array Films and Their Use in Photocathodic Protection of Stainless Steel
Zhu YF, Xu L, Hu J, Zhang J, Du RG, Lin CJ
ELECTROCHIMICA ACTA 121 (2014) 361-368 [PDF](#)
137. Pt-Cu Alloy with High Density of Surface Pt Defects for Efficient Catalysis of Breaking C-C Bond in Ethanol
Huang MH, Jiang YY, Jin CH, Ren J, Zhou ZY, Guan LH
ELECTROCHIMICA ACTA 125 (2014) 29-37 [PDF](#)
138. Yolk-Shell ZnO-C Microspheres with Enhanced Electrochemical Performance as Anode Material for Lithium Ion Batteries
Xie QS, Zhang XQ, Wu XB, Wu HY, Liu X, Yue GH, Yang Y, Peng DL
ELECTROCHIMICA ACTA 125 (2014) 659-665 [PDF](#)
139. Li[Li_{0.2}Mn_{0.54}Ni_{0.13}Co_{0.13}]O₂-LiMn_{1.5}Ti_{0.5}O₄ Composite Cathodes with Improved Electrochemical Performance for Lithium Ion Batteries
Wang SH, Wu Y, Li YX, Zheng JM, Yang JH, Yang Y
ELECTROCHIMICA ACTA 133 (2014) 100-106 [PDF](#)
140. Electrosynthesis of Copper-Tetracyanoquinodimethane Based on the Coupling Charge Transfer across Water/1,2-Dichloroethane Interface
Huang L, Li P, Pamphile N, Tian ZQ, Zhan DP
ELECTROCHIMICA ACTA 140 (2014) 332-336 [PDF](#)
141. Shape Evolution of Platinum Nanocrystals By Electrochemistry
Li YY, Liao HG, Rao L, Jiang YX, Huang R, Zhang BW, He CL, Tian N, Sun SG
ELECTROCHIMICA ACTA 140 (2014) 345-351 [PDF](#)
142. SnO₂-Embedded Worm-Like Carbon Nanofibers Supported Pt Nanoparticles for Oxygen

Reduction Reaction

- Jia JC, Wang H, Ji S, Yang HJ, Li XS, Wang RF
ELECTROCHIMICA ACTA 141(2014) 13-19 [PDF](#)
143. Syntheses and Electrochemical Properties of the Na-Doped $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode Materials for Lithium-Ion Batteries
Wang J, Lin WQ, Wu BH, Zhao JB
ELECTROCHIMICA ACTA 145(2014) 245-253 [PDF](#)
144. New Strategy for Electrochemical Micropatterning of Nafion Film in Sulfuric Acid Solution
Wang C, Zhang HW, Zhang JF, Wu D, Tian ZQ, Tian ZW, Shi K
ELECTROCHIMICA ACTA 146(2014) 125-133 [PDF](#)
145. Inorganic-Modified Semiconductor TiO_2 Nanotube Arrays for Photocatalysis
Wang MY, Iocozia J, Sun L, Lin CJ, Lin ZQ
ENERGY & ENVIRONMENTAL SCIENCE 7(7)(2014) 2182-2202 [PDF](#)
146. Increased Capacity of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2\text{-Li}[\text{Li}_{1/3}\text{Mn}_{2/3}]\text{O}_2$ Cathodes By MnO_x -Surface Modification for Lithium-Ion Batteries
Wang J, He X, Kloepsch R, Wang SH, Hoffmann B, Jeong S, Yang Y, Li J
ENERGY TECHNOLOGY 2(2)(2014) 188-193 [PDF](#)
147. Self- Assembly of a Mixed- Valent Co_{32} Ring
Bai YL, Bao XL, Zhu SR, Fang JH, Shao M, Shi HY
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY 8 (2014) 1275-1278 [PDF](#)
148. Evaluation of Triplet Aromaticity By the Indene- Isoindene Isomerization Stabilization Energy Method
An K, Zhu J
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY 13 (2014) 2764-2769 [PDF](#)
149. Reduced Graphene Oxide Anchoring CoFe_2O_4 Nanoparticles as an Effective Catalyst for Non-Aqueous Lithium-Oxygen Batteries
Cao Y, Cai SR, Fan SC, Hu WQ, Zheng MS, Dong QF
FARADAY DISCUSSIONS 172(2014) 215-221 [PDF](#)
150. PVP-Stabilized Heteropolyacids as Reusable Self-Assembling Catalysts for Alcoholysis of Cellulosic Saccharides
Chen J, Fang XL, Duan XP, Ye LM, Lin HQ, Yuan YZ
GREEN CHEMISTRY 16(1)(2014) 294-302 [PDF](#)
151. Improvements on Remote Diffuser-Phosphor-Packaged Light-Emitting Diode Systems
Xiao H, Lu YJ, Shih TM, Zhu LH, Lin SQ, Pagni PJ, Chen Z
IEEE PHOTONICS JOURNAL 6(2)(2014) 8200108 [PDF](#)
152. Comparing Two New Composite Photocatalysts, $t\text{-LaVO}_4/g\text{-C}_3\text{N}_4$ and $m\text{-LaVO}_4/g\text{-C}_3\text{N}_4$, for Their Structures and Performances
He YM, Cai J, Zhang LH, Wang XX, Lin HJ, Teng BT, Zhao LH, Weng WZ, Wan HL, Fan MH
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH 53(14)(2014) 5905-5915 [PDF](#)

153. Solvothermal Synthesis of Four Polyoxometalate-Based Coordination Polymers Including Diverse Ag(I)··· π Interactions
Liang MX, Ruan CZ, Sun D, Kong XJ, Ren YP, Long LS, Huang RB, Zheng LS
INORGANIC CHEMISTRY 53(2)(2014) 897-902 [PDF](#)
154. pH-Dependent Coordination of Pb²⁺ to Metallothionein2: Structures and Insight into Lead Detoxification
He YH, Liu MM, Darabedian N, Liang YZ, Wu DY, Xiang J, Zhou FM
INORGANIC CHEMISTRY 53(6)(2014) 2822-2830 [PDF](#)
155. Co-Ligand and Solvent Effects on the Spin-Crossover Behaviors of PtS-Type Porous Coordination Polymers
Chen XY, Huang RB, Zheng LS, Tao J
INORGANIC CHEMISTRY 53(10)(2014) 5246-5252 [PDF](#)
156. Syntheses, Characterizations, Thermal Stability and Photoluminescence of Four Silver Coordination Polymers with Mixed Ligands
Wang DF, Wang ZH, Zhang T, Dai SM, Huang RB, Zheng LS
INORGANICA CHIMICA ACTA 415(2014) 61-68 [PDF](#)
157. Structural Variation in Silver(I) Complexes with Pyridazine Ligand and Aromatic Polycarboxylic Acids: Structural Analysis with Silver Chains
Wang DF, Zhang T, Dai SM, Huang RB, Zheng LS
INORGANICA CHIMICA ACTA 423(2014) 193-200 [PDF](#)
158. Novel Ni-ZrO₂ Catalyst Doped with Yb₂O₃ for Ethanol Steam Reforming
Hou J, Liu ZM, Lin GD, Zhang HB
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 39(3)(2014) 1315-1324 [PDF](#)
159. Crystallographic Snapshots of the Interplay Between Reactive Guest and Host Molecules in a Porous Coordination Polymer: Stereochemical Coupling and Feedback Mechanism of Three Photoactive Centers Triggered By UV-Induced Isomerization, Dimerization, and Polymerization Reactions
Yang SY, Deng XL, Jin RF, Naumov P, Panda MK, Huang RB, Zheng LS, Teo BK
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(2)(2014) 558-561 [PDF](#)
160. Synthetic Access to a Hydrocarbon-Soluble Trifluorinated Ge(II) Compound and Its Sn(II) Congener
Samuel PP, Li Y, Roesky HW, Chevelkov V, Lange A, Burkhardt A, Dittrich B
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(4)(2014) 1292-1295 [PDF](#)
161. Unique Excavated Rhombic Dodecahedral PtCu₃ Alloy Nanocrystals Constructed with Ultrathin Nanosheets of High-Energy {110} Facets
Jia YY, Jiang YQ, Zhang JW, Zhang L, Chen QL, Xie ZX, Zheng LS
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(10)(2014) 3748-3751 [PDF](#)
162. Iron Catalyzed Asymmetric Hydrogenation of Ketones
Li YY, Yu SL, Wu XF, Xiao JL, Shen WY, Dong ZR, Gao JX
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(10)(2014) 4031-4039 [PDF](#)

163. Three-Dimensional and Time-Ordered Surface-Enhanced Raman Scattering Hotspot Matrix
Liu HL, Yang ZL, Meng LY, Sun YD, Wang J, Yang LB, Liu JH, Tian ZQ
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(14)(2014) 5332-5341 [PDF](#)
164. C₂H₂ Treatment as a Facile Method to Boost the Catalysis of Pd Nanoparticulate Catalysts
Dai Y, Liu SJ, Zheng NF
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(15)(2014) 5583-5586 [PDF](#)
165. Label-Free Aptasensor Based on Ultrathin-Linker-Mediated Hot-Spot Assembly to Induce Strong Directional Fluorescence
Cao SH, Cai WP, Liu Q, Xie KX, Weng YH, Huo SX, Tian ZQ, Li YQ
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(19)(2014) 6802-6805 [PDF](#)
166. Structural Evolution of Atomically Precise Thiolated Bimetallic [Au_{12+n}Cu₃₂(SR)_{30+n}]⁴⁻ (n=0, 2, 4, 6) Nanoclusters
Yang HY, Wang Y, Yan JZ, Chen X, Zhang X, Hakkinen H, Zheng NF
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(20)(2014) 7197-7200 [PDF](#)
167. Phenylenediamine-Based FeN_x/C Catalyst with High Activity for Oxygen Reduction in Acid Medium and Its Active-Site Probing
Wang Q, Zhou ZY, Lai YJ, You Y, Liu JG, Wu XL, Terefe E, Chen C, Song L, Rauf M, Tian N, Sun SG
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(31)(2014) 10882-10885 [PDF](#)
168. Electrostatic Self-Assembling Formation of Pd Superlattice Nanowires From Surfactant-Free Ultrathin Pd Nanosheets
Hu CY, Lin KQ, Wang XL, Liu SJ, Yi J, Tian Y
Wu BH, Chen GX, Yang HY, Dai Y, Li H, Zheng NF
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(37)(2014) 12856-12859 [PDF](#)
169. Resolving Fine Structures of the Electric Double Layer of Electrochemical Interfaces in Ionic Liquids with an AFM Tip Modification Strategy
Zhong YX, Yan JW, Li MG, Zhang X, He DW, Mao BW
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(42)(2014) 14682-14685 [PDF](#)
170. Quantitative Correlation between Defect Density and Heterogeneous Electron Transfer Rate of Single Layer Graphene
Zhong JH, Zhang J, Jin X, Liu JY, Li QY, Li MH, Cai WW, Wu DY, Zhan DP, Ren B
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(47)(2014) 16609-16617 [PDF](#)
171. Controlling the Stereochemistry and Regularity of Butanethiol Self-Assembled Monolayers on Au(111)
Yan JW, Ouyang RH, Jensen PS, Ascic E, Tanner D
Mao BW, Zhang JD, Tang CG, Hush NS, Ulstrup J, Reimers JR
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 136(49)(2014) 17087-17094 [PDF](#)
172. Direct Correlation of Electrochemical Behaviors with Anti-Thrombogenicity of Semiconducting Titanium Oxide Films
Wan GJ, Lv B, Jin GS, Maitz MF, Zhou JZ, Huang N

- JOURNAL OF BIOMATERIALS APPLICATIONS 28(5)(2014) 719-728 [PDF](#)
173. Carbon-Supported Palladium Catalysts for the Direct Synthesis of Hydrogen Peroxide From Hydrogen and Oxygen
Hu BZ, Deng WP, Li RS, Zhang QH, Wang Y
Delplanque-Janssens F, Paul D, Desmedt F, Miguel P
JOURNAL OF CATALYSIS 319(2014) 15-26 [PDF](#)
174. Touch NMR: An NMR Data Processing Application for the Ipad
Li QY, Chen ZW, Yan ZP, Wang C, Chen Z
JOURNAL OF CHEMICAL EDUCATION 91(11)(2014) 2002-2004 [PDF](#)
175. Assessment of Mode-Mixing and Herzberg-Teller Effects on Two-Photon Absorption and Resonance Hyper-Raman Spectra From a Time-Dependent Approach
Ma HL, Zhao Y, Liang WZ
JOURNAL OF CHEMICAL PHYSICS 140(9)(2014) 094107 [PDF](#)
176. Molecular Properties of Excited Electronic State: Formalism, Implementation, and Applications of Analytical Second Energy Derivatives Within the Framework of the Time-Dependent Density Functional Theory/Molecular Mechanics
Zeng Q, Liu J, Liang WZ
JOURNAL OF CHEMICAL PHYSICS 140(18)(2014) 18A506 [PDF](#)
177. Energy Relaxation and Separation of a Hot Electron-Hole Pair in Organic Aggregates from a Time-Dependent Wavepacket Diffusion Method
Han L, Zhong XX, Liang WZ, Zhao Y
JOURNAL OF CHEMICAL PHYSICS 140(21)(2014) 214107 [PDF](#)
178. A Time-Dependent Density-Functional Theory and Complete Active Space Self-Consistent Field Method Study of Vibronic Absorption and Emission Spectra of Coumarin
Li JF, Rinkevicius Z, Cao ZX
JOURNAL OF CHEMICAL PHYSICS 141(1)(2014) 014306 [PDF](#)
179. Nonorthogonal Orbital Based n -Body Reduced Density Matrices and Their Applications to Valence Bond Theory. III. Second-Order Perturbation Theory Using Valence Bond Self-Consistent Field Function as Reference
Chen ZH, Chen X, Ying FM, Gu JJ, Zhang HY, Wu W
JOURNAL OF CHEMICAL PHYSICS 141(13)(2014) 134118 [PDF](#)
180. Nonorthogonal Orbital Based n -Body Reduced Density Matrices and Their Applications to Valence Bond Theory. IV. the Automatic Implementation of the Hessian Based VBSCF Method
Chen X, Chen ZH, Wu W
JOURNAL OF CHEMICAL PHYSICS 141(19)(2014) 194113 [PDF](#)
181. Charge-Shift Bonding Emerges as a Distinct Electron-Pair Bonding Family from Both Valence Bond and Molecular Orbital Theories
Zhang HY, Danovich D, Wu W, Braida B, Hiberty PC, Shaik S
JOURNAL OF CHEMICAL THEORY AND COMPUTATION 10(6)(2014) 2410-2418 [PDF](#)

182. Perturbative Treatment of Anharmonic Vibrational Effects on Bond Distances: An Extended Langevin Dynamics Method
Shen TH, Su NQ, Wu AA, Xu X
JOURNAL OF COMPUTATIONAL CHEMISTRY 35(6)(2014) 467-478 [PDF](#)
183. NMR and Theoretical Study on the Coordination Interaction between Peroxovanadium(V) Complexes and 5-Amino-1,10-Phenanthroline
Yu XY, Deng L, Tao HW, Jiang BF, Li XF
JOURNAL OF COORDINATION CHEMISTRY 67(2)(2014) 315-322 [PDF](#)
184. Characterisation and Electrocatalytic Activity of PtNi Alloys on Pt{111} Electrodes Formed Using Different Thermal Treatments
Attard GA, Ye JY, Brew A, Morgan D, Bergstrom-Mann P, Sun SG
JOURNAL OF ELECTROANALYTICAL CHEMISTRY 716(2014) 106-111 [PDF](#)
185. Uptake Pathways and Subsequent Nucleus Targeting of Tat-Conjugated Gelatin-Siloxane Nanoparticles as Nonviral Gene Vector
Wang TX, Shang T, Shen LH, Ren L
JOURNAL OF EXPERIMENTAL NANOSCIENCE 9(7)(2014) 739-748 [PDF](#)
186. Three-Dimensional Structure of Barium-Cupric Nitrilotriacetate and One-Dimensional Structure of Cobalt-Cupric Nitrilotriacetate: Template Effect of Cations on the Formation of Coordination Polymers
Lin HB, Wang QH, Zhou ZH
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS 24(5)(2014) 819-826 [PDF](#)
187. α -Hydroxy Coordination of Mononuclear Vanadyl Citrate, Malate and S-Citramalate with N-Heterocycle Ligand, Implying a New Protonation Pathway of Iron-Vanadium Cofactor in Nitrogenase
Chen CY, Chen ML, Chen HB, Wang HX, Cramer SP, Zhou ZH
JOURNAL OF INORGANIC BIOCHEMISTRY 141(2014) 114-120 [PDF](#)
188. Vibrational Dephasing of Self-Assembling Monolayer on Gold Surface
He YH, Chen GQ, Xu M, Liu YQ, Wang ZH
JOURNAL OF LUMINESCENCE 152(2014) 244-246 [PDF](#)
189. High-Resolution Heteronuclear Multi-Dimensional NMR Spectroscopy in Magnetic Fields with Unknown Spatial Variations
Zhang ZY, Huang YQ, Smith PES, Wang KY, Cai SH, Chen Z
JOURNAL OF MAGNETIC RESONANCE 242(2014) 49-56 [PDF](#)
190. Fast 3D Gradient Shimming by Only 2 X 2 Pixels in XY Plane for NMR-Solution Samples
Liu GC, Qu XB, Cai SH, Zhang ZY, Chen ZW, Cai CB, Chen Z
JOURNAL OF MAGNETIC RESONANCE 248(2014) 13-18 [PDF](#)
191. Promoting Long-Term Cycling Performance of High-Voltage Li₂CoPO₄F by the Stabilization of Electrode/Electrolyte Interface
Wu XB, Wang SH, Lin XC, Zhong GM, Gong ZL, Yang Y

- JOURNAL OF MATERIALS CHEMISTRY A 2(4)(2014) 1006-1013 [PDF](#)
192. Tetrahedral Pt-Pd Alloy Nanocatalysts with High-Index Facets: an Atomistic Perspective on Thermodynamic and Shape Stabilities
Wen YH, Huang R, Zeng XM, Shao GF, Sun SG
JOURNAL OF MATERIALS CHEMISTRY A 2(5)(2014) 1375-1382 [PDF](#)
193. Hierarchical Structure LiFePO₄@C Synthesized by Oleylamine-Mediated Method for Low Temperature Applications
Fan JM, Chen JJ, Chen YX, Huang HH, Wei ZK, Zheng MS, Dong QF
JOURNAL OF MATERIALS CHEMISTRY A 2(14)(2014) 4870-4873 [PDF](#)
194. A Multiple Coating Route to Hollow Carbon Spheres with Foam-Like Shells and Their Applications in Supercapacitor and Confined Catalysis
Fang XL, Zang J, Wang XL, Zheng MS, Zheng NF
JOURNAL OF MATERIALS CHEMISTRY A 2(17)(2014) 6191-6197 [PDF](#)
195. The Synthesis of a Core-Shell MnO₂/3D-Ordered Hollow Carbon Sphere Composite and Its Superior Electrochemical Capability for Lithium Ion Batteries
Zang J, Chen JJ, Zhang CL, Qian H, Zheng MS, Dong QF
JOURNAL OF MATERIALS CHEMISTRY A 2(18)(2014) 6343-6347 [PDF](#)
196. An Ultrasound-Assisted Deposition of NiO Nanoparticles on TiO₂ Nanotube Arrays for Enhanced Photocatalytic Activity
Wu Z, Wang YY, Sun L, Mao YX, Wang MY, Lin CJ
JOURNAL OF MATERIALS CHEMISTRY A 2(22)(2014) 8223-8229 [PDF](#)
197. Improved Lithium Ion Battery Performance By Mesoporous Co₃O₄ Nanosheets Grown on Self-Standing NiSi_x Nanowires on Nickel Foam
Chen HX, Zhang QB, Wang JX, Xu DG, Li XH, Yang Y, Zhang KL
JOURNAL OF MATERIALS CHEMISTRY A 2(22)(2014) 8483-8490 [PDF](#)
198. Study on SnO₂/Graphene Composites with Superior Electrochemical Performance for Lithium-Ion Batteries
Chen BB, Qian H, Xu JH, Qin LL, Wu QH, Zheng MS, Dong QF
JOURNAL OF MATERIALS CHEMISTRY A 2(24)(2014) 9345-9352 [PDF](#)
199. Responsive Au@Polymer Hybrid Microgels for the Simultaneous Modulation and Monitoring of Au-Catalyzed Chemical Reaction
Xiao CF, Wu QS, Chang AP, Peng YH, Xu WT, Wu WT
JOURNAL OF MATERIALS CHEMISTRY A 2(25)(2014) 9514-9523 [PDF](#)
200. High-Index-Faceted Platinum Nanoparticles: Insights into Structural and Thermal Stabilities and Shape Evolution from Atomistic Simulations
Zeng XM, Huang R, Shao GF, Wen YH, Sun SG
JOURNAL OF MATERIALS CHEMISTRY A 2(29)(2014) 11480-11489 [PDF](#)
201. L-Histidine-Assisted Template-Free Hydrothermal Synthesis of α -Fe₂O₃ Porous Multi-Shelled Hollow Spheres with Enhanced Lithium Storage Properties

- Wu ZG, Zhong YJ, Li JT, Guo XD, Huang L, Zhong BH, Sun SG
JOURNAL OF MATERIALS CHEMISTRY A 2(31)(2014) 12361-12367 [PDF](#)
202. Synergistically Reinforced Lithium Storage Performance of *in Situ* Chemically Grown Silicon@Silicon Oxide Core-Shell Nanowires on Three-Dimensional Conductive Graphitic Scaffolds
Peng CX, Chen HX, Li QY, Cai WW, Yao Q, Wu QS, Yang JH, Yang Y
JOURNAL OF MATERIALS CHEMISTRY A 2(34)(2014) 13859-13867 [PDF](#)
203. Porous $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Sphere as 5 V Cathode Material for Lithium Ion Batteries
Wang J, Lin WQ, Wu BH, Zhao JB
JOURNAL OF MATERIALS CHEMISTRY A 2(39)(2014) 16434-16442 [PDF](#)
204. Tuning the Energy Band-Gap of Crystalline Gallium Oxide to Enhance Photocatalytic Water Splitting: Mixed-Phase Junctions
Ju MG, Wang X, Liang WZ, Zhao Y, Li C
JOURNAL OF MATERIALS CHEMISTRY A 2(40)(2014) 17005-17014 [PDF](#)
205. Carbon Embedded $\alpha\text{-MnO}_2$ @Graphene Nanosheet Composite: a Bifunctional Catalyst for High Performance Lithium Oxygen Batteries
Cao Y, Zheng MS, Cai SR, Lin XD, Yang C, Hu WQ, Dong QF
JOURNAL OF MATERIALS CHEMISTRY A 2(44)(2014) 18736-18741 [PDF](#)
206. Facile Synthesis of Fe_3S_4 Hollow Spheres with High-Performance for Lithium-Ion Batteries and Water Treatment
Zheng J, Cao Y, Cheng C, Chen C, Yan RW, Huai HX, Dong QF, Zheng MS, Wang CC
JOURNAL OF MATERIALS CHEMISTRY A 2(46)(2014) 19882-19888 [PDF](#)
207. Tuning the Structure and Property of Nanostructured Cathode Materials of Lithium Ion and Lithium Sulfur Batteries
Xu GL, Wang Q, Fang JC, Xu YF, Li JT, Huang L, Sun SG
JOURNAL OF MATERIALS CHEMISTRY A 2(47)(2014) 19941-19962 [PDF](#)
208. The Synergistic Effects of Al and Te on the Structure and Li^+ -Mobility of Garnet-Type Solid Electrolytes
Wang DW, Zhong GM, Dolotko O, Li YX, McDonald MJ, Mi JX, Fu RQ, Yang Y
JOURNAL OF MATERIALS CHEMISTRY A 2(47)(2014) 20271-20279 [PDF](#)
209. Corannulene Derivatives as Non-Fullerene Acceptors in Solution-Processed Bulk Heterojunction Solar Cells
Lu RQ, Zheng YQ, Zhou YN, Yan XY, Lei T, Shi K
Zhou Y, Pei J, Zoppi L, Baldrige KK, Siegel JS, Cao XY
JOURNAL OF MATERIALS CHEMISTRY A 2(48)(2014) 20515-20519 [PDF](#)
210. Silica Nanovehicles Endow Arsenic Trioxide with an Ability to Effectively Treat Cancer Cells and Solid Tumors
Zhao ZH, Zhang H, Chi XQ, Li H, Yin ZY, Huang DT, Wang XM, Gao JH
JOURNAL OF MATERIALS CHEMISTRY B 2(37)(2014) 6313-6323 [PDF](#)

211. On the Large σ -Hyperconjugation in Alkanes and Alkenes
Wu JIC, Wang CW, McKee WC, Schleyer PV, Wu W, Mo YR
JOURNAL OF MOLECULAR MODELING 20(6)(2014) 2228 [PDF](#)
212. Effects of Solvent Systems on Two Silver Coordination Complexes: From Discrete Structure to 2D Sheet
Wang DF, Wang ZH, Lu BW, Chen SF, Zhang T, Huang RB, Zheng LS
JOURNAL OF MOLECULAR STRUCTURE 1059(2014) 81-86 [PDF](#)
213. Effect of Different Carboxylates on Two Ag(I) Coordination Polymers with 2,5-Dimethylpyrazine Ligand
Wang ZH, Wang DF, Zhang T, Huang RB, Zheng LS
JOURNAL OF MOLECULAR STRUCTURE 1064(2014) 27-31 [PDF](#)
214. Novel Networks of Silver(I) Cations Assembled with 2,3-Pyridinedicarboxylic Acid: From 2D Sheet to 3D Network
Wang DF, Wang ZH, Zhang T, Huang RB, Zheng LS
JOURNAL OF MOLECULAR STRUCTURE 1068(2014) 210-215 [PDF](#)
215. NMR-Based Metabonomic Analysis of MnO-Embedded Iron Oxide Nanoparticles as Potential Dual-Modal Contrast Agents
Li JQ, Zhou ZJ, Feng JH, Cai SH, Gao JH, Chen Z
JOURNAL OF NANOPARTICLE RESEARCH 16(5)(2014) 2411 [PDF](#)
216. Double Role of the Hydroxy Group of Phosphoryl in Palladium(II)-Catalyzed *ortho*-Olefination: a Combined Experimental and Theoretical Investigation
Liu L, Yuan H, Fu TT, Wang T, Gao X, Zeng ZP, Zhu J, Zhao YF
JOURNAL OF ORGANIC CHEMISTRY 79(1)(2014) 80-87 [PDF](#)
217. How Solvent Influences the Anomeric Effect: Roles of Hyperconjugative Versus Steric Interactions on the Conformational Preference
Wang CW, Ying FM, Wu W, Mo YR
JOURNAL OF ORGANIC CHEMISTRY 79(4)(2014) 1571-1581 [PDF](#)
218. Mechanism, Reactivity, and Selectivity in Rh(III)-Catalyzed Phosphoryl-Directed Oxidative C-H Activation/Cyclization: a DFT Study
Liu L, Wu YL, Wang T, Gao X, Zhu J, Zhao YF
JOURNAL OF ORGANIC CHEMISTRY 79(11)(2014) 5074-5081 [PDF](#)
219. Mechanistic Insight into the Copper-Catalyzed Phosphorylation of Terminal Alkynes: a Combined Theoretical and Experimental Study
Liu L, Wu Y, Wang ZS, Zhu J, Zhao YF
JOURNAL OF ORGANIC CHEMISTRY 79(15)(2014) 6816-6822 [PDF](#)
220. Gold-Catalyzed Tandem Cycloisomerization/Functionalization of in Situ Generated α -Oxo Gold Carbenes in Water
Shen CH, Li L, Zhang W, Liu S, Shu C, Xie YE, Yu YF, Ye LW
JOURNAL OF ORGANIC CHEMISTRY 79(19)(2014) 9313-9318 [PDF](#)

221. Mechanisms and Reactivity Differences for Cycloaddition of Anhydride to Alkyne Catalyzed by Palladium and Nickel Catalysts: Insight from Density Functional Calculations
Xie HJ, Sun Q, Ren G, Cao ZX
JOURNAL OF ORGANIC CHEMISTRY 79(24)(2014) 11911-11921 [PDF](#)
222. Synthesis and Characterization of Novel Chiral Bidentate P,N-Containing Ligands and Ruthenium(II) Complex. the Application in Asymmetric Transfer Hydrogenation of Ketones
Zeng L, Wu F, Li YY, Dong ZR, Gao JX
JOURNAL OF ORGANOMETALLIC CHEMISTRY 762(2014) 34-39 [PDF](#)
223. Theoretical Study on the Interconversion of Silabenzenes and Their Monocyclic Non-Aromatic Isomers Via the [1,3]-Substituent Shift: Interplay of Aromaticity and Bent's Rule
Wang XR, Huang Y, An K, Fan JL, Zhu J
JOURNAL OF ORGANOMETALLIC CHEMISTRY 770(2014) 146-150 [PDF](#)
224. Surface-Enhanced Raman Spectroscopy Toward Application in Plasmonic Photocatalysis on Metal Nanostructures
Chen XJ, Cabello G, Wu DY, Tian ZQ
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY C: PHOTOCHEMISTRY REVIEWS 21(2014) 54-80 [PDF](#)
225. Energy Decomposition Scheme Based on the Generalized Kohn-Sham Scheme
Su PF, Jiang Z, Chen ZC, Wu W
JOURNAL OF PHYSICAL CHEMISTRY A 118(13)(2014) 2531-2542 [PDF](#)
226. G2(+)_M Study on N-Alkylamino Cation Affinities of Neutral Main-Group Element Hydrides: Trends Across the Periodic Table
Geng S, Wu DL, Yang J, Wei XG, Zhu J, Zhang HB, Ren Y, Lau KC
JOURNAL OF PHYSICAL CHEMISTRY A 118(18)(2014) 3351-3359 [PDF](#)
227. Concerted or Stepwise Mechanism? New Insight Into the Water-Mediated Neutral Hydrolysis of Carbonyl Sulfide
Li XH, Ren SJ, Wei XG, Zeng Y, Gao GW, Ren Y, Zhu J, Lau KC, Li WK
JOURNAL OF PHYSICAL CHEMISTRY A 118(19)(2014) 3503-3513 [PDF](#)
228. *Ab Initio* Study on Ultrafast Excited-State Decay of Allopurinol Keto-N9H Tautomer from Gas Phase to Aqueous Solution
Guo XG, Zhao Y, Cao ZX
JOURNAL OF PHYSICAL CHEMISTRY A 118(39)(2014) 9013-9020 [PDF](#)
229. Theoretical Prediction of the Rate Constants for Exciton Dissociation and Charge Recombination to a Triplet State in PCPDTBT with Different Fullerene Derivatives
Leng C, Qin HM, Si YB, Zhao Y
JOURNAL OF PHYSICAL CHEMISTRY C 118(4)(2014) 1843-1855 [PDF](#)
230. Laser Power Dependent Surface-Enhanced Raman Spectroscopic Study of 4-Mercaptopyridine on Uniform Gold Nanoparticle-Assembled Substrates
Zheng XS, Hu P, Zhong JH, Zong C, Wang X, Liu BJ, Ren B
JOURNAL OF PHYSICAL CHEMISTRY C 118(7)(2014) 3750-3757 [PDF](#)

231. In Search of Flexible Molecular Wires with Near Conformer-Independent Conjugation and Conductance: a Computational Study
Emanuelsson R, Lofas H, Zhu J, Ahuja R, Grigoriev A, Ottosson H
JOURNAL OF PHYSICAL CHEMISTRY C 118(11)(2014) 5637-5649 [PDF](#)
232. Kinetic Investigation on the Confined Etching System of N-Type Gallium Arsenide by Scanning Electrochemical Microscopy
Zhang J, Jia JC, Han LH, Yuan Y, Tian ZQ, Tian ZW, Zhan DP
JOURNAL OF PHYSICAL CHEMISTRY C 118(32)(2014) 18604-18611 [PDF](#)
233. Competing Mechanistic Pathways of Ethylene Functionalization of Positively Charged H-Si(111) Surfaces
Yang LK, Su YQ, Williams CT, Yang FZ, Wu DY, Tian ZQ
JOURNAL OF PHYSICAL CHEMISTRY C 118(45)(2014) 25987-25993 [PDF](#)
234. Theoretical Study on Thermodynamic and Spectroscopic Properties of Electro-Oxidation of P-Aminothiophenol on Gold Electrode Surfaces
Zhao LB, Zhang M, Ren B, Tian ZQ, Wu DY
JOURNAL OF PHYSICAL CHEMISTRY C 118(46)(2014) 27113-27122 [PDF](#)
235. Surface Reconstruction and Reactivity of Platinum Iron Oxide Nanoparticles
Duchesne PN, Chen GX, Zhao XJ, Zheng NF, Zhang P
JOURNAL OF PHYSICAL CHEMISTRY C 118(49)(2014) 28861-28867 [PDF](#)
236. Theoretical Study of Plasmon-Enhanced Surface Catalytic Coupling Reactions of Aromatic Amines and Nitro Compounds
Zhao LB, Zhang M, Huang YF, Williams CT, Wu DY, Ren B, Tian ZQ
JOURNAL OF PHYSICAL CHEMISTRY LETTERS 5(7)(2014) 1259-1266 [PDF](#)
237. Density Functional Theory Study on a Fluorescent Chemosensor Device of Aza-Crown Ether
Wang Q, Wang XY, Li L
JOURNAL OF PHYSICAL ORGANIC CHEMISTRY 27(7)(2014) 546-554 [PDF](#)
238. Toward High Capacity and Stable Manganese-Spinel Electrode Materials: a Case Study of Ti-Substituted System
Wang SH, Yang J, Wu XB, Li YX, Gong ZL, Wen W, Lin M, Yang JH, Yang Y
JOURNAL OF POWER SOURCES 245(2014) 570-578 [PDF](#)
239. Effect of a Thin Ceramic-Coating Layer on Thermal and Electrochemical Properties of Polyethylene Separator for Lithium-Ion Batteries
Shi C, Zhang P, Chen LX, Yang PT, Zhao JB
JOURNAL OF POWER SOURCES 270(2014) 547-553 [PDF](#)
240. Colorectal Cancer Detection Using Targeted Serum Metabolic Profiling
Zhu JJ, Djukovic D, Deng LL, Gu HW, Himmati F, Chiorean EG, Raftery D
JOURNAL OF PROTEOME RESEARCH 13(9)(2014) 4120-4130 [PDF](#)
241. Tip-Enhanced Raman Spectroscopy - An Interlaboratory Reproducibility and Comparison Study
Blum C, Opilik L, Atkin JM, Braun K, Kammer SB, Kravtsov V, Kumar N, Lemeshko S, Li JF,

- Luszcz K, Maleki T, Meixner AJ, Minne S, Raschke MB, Ren B, Rogalski J, Roy D, Stephanidis B, Wang X, Zhang D, Zhong JH, Zenobi R
JOURNAL OF RAMAN SPECTROSCOPY 45(1)(2014) 22-31 [PDF](#)
242. Drop-Coating Deposition and Surface-Enhanced Raman Spectroscopies (DCDRS and SERS) Provide Complementary Information of Whole Human Tears
Hu P, Zheng XS, Zong C, Li MH, Zhang LY, Li W, Ren B
JOURNAL OF RAMAN SPECTROSCOPY 45(7)(2014) 565-573 [PDF](#)
243. Simple and Sensitive Detection of Cyanide Using Pinhole Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy
Gao J, Guo L, Wu JF, Feng JL, Wang SM, Lai FL, Xie JW, Tian ZQ
JOURNAL OF RAMAN SPECTROSCOPY 45(8)(2014) 619-626 [PDF](#)
244. Acidic 1,3-Propanediaminetetraacetato Lanthanides with Luminescent and Catalytic Ester Hydrolysis Properties
Chen ML, Shi YR, Yang YC, Zhou ZH
JOURNAL OF SOLID STATE CHEMISTRY 219(2014) 265-273 [PDF](#)
245. Understanding the Structural and Electronic Properties of the Cathode Material NaFeF₃ in a Na-Ion Battery
Yu S, Zhang P, Wu SQ, Li AY, Zhu ZZ, Yang Y
JOURNAL OF SOLID STATE ELECTROCHEMISTRY 18(8)(2014) 2071-2075 [PDF](#)
246. TiO₂ Nanotube Films Prepared by Anodization in Glycerol Solutions for Photocathodic Protection of Stainless Steel
Xu L, Zhu YF, Hu J, Zhang J, Shao YZ, Du RG, Lin CJ
JOURNAL OF THE ELECTROCHEMICAL SOCIETY 161(4)(2014) C231-C235 [PDF](#)
247. Chain-Like SnO₂-C_nX Nanocomposite Supported Pt Nanoparticles and Their Application in the Electrocatalytic Oxidation of Ethanol in Acid Medium
Jia JC, Wang H, Li H, Ji S, Yang HJ, Wang RF
JOURNAL OF THE ELECTROCHEMICAL SOCIETY 161(12)(2014) H860-H866 [PDF](#)
248. Mechanism of Lewis-Acid-Catalyzed Intramolecular Coupling of Sp³ C-H Bond and Alkene: a Theoretical Investigation
Ye MQ, Liu RF, Zeng H, Tan K, Lu X
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY 13(2)(2014) 1450015 [PDF](#)
249. Theoretical Study on Supramolecular Chemistry of Alkali-Metal Cations with Crown Ether Derivatized Thiophenes
Wang Q, Li M, Wang XY, Li L
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY 13(4)(2014) 1450029 [PDF](#)
250. RhPt Flowerlike Bimetallic Nanocrystals with Tunable Composition as Superior Electrocatalysts for Methanol Oxidation
Yuan Q, Huang DB, Wang HH, Zhou ZY

- LANGMUIR 30(20)(2014) 5711-5715 [PDF](#)
251. Ionic Liquid Based Approach for Single-Molecule Electronics with Cobalt Contacts
Catarelli SR, Higgins SJ, Schwarzacher W, Mao BW, Yan JW, Nichols RJ
LANGMUIR 30(47)(2014) 14329-14336 [PDF](#)
252. Graphene@Poly(Phenylboronic Acid)S Microgels with Selectively Glucose-Responsive Volume Phase Transition Behavior at a Physiological Ph
Zhou MM, Xie JD, Yan ST, Jiang XM, Ye T, Wu WT
MACROMOLECULES 47(17)(2014) 6055-6066 [PDF](#)
253. Synthesis and Characterization of Dextran Tyramine-Based H₂O₂-Sensitive Microgels
Wei H, Xie JD, Jiang XM, Ye T, Chang AP, Wu WT
MACROMOLECULES 47(17)(2014) 6067-6076 [PDF](#)
254. Reverse Detection for Spectral Width Improvements in Spatially Encoded Dimensions of Ultrafast Two-Dimensional NMR Spectra
Wei ZL, Yang J, Lin LJ, Liu GC, Lin YQ, Chen Z
MAGNETIC RESONANCE IN CHEMISTRY 52(11)(2014) 680-685 [PDF](#)
255. Ultrafast Localized Two-Dimensional Magnetic Resonance Correlated Spectroscopy Via Spatially Encoded Technique
Lin YQ, Zhang Q, Wei ZL, Cai SH, Zhong JH, Chen Z
MAGNETIC RESONANCE IN MEDICINE 71(3)(2014) 903-910 [PDF](#)
256. TEM Study of Fivefold Twined Gold Nanocrystal Formation Mechanism
Liao HG, Shao YY, Wang CM, Lin YH, Jiang YX, Sun SG
MATERIALS LETTERS 116(2014) 299-303 [PDF](#)
257. Preparation of CTAB-Loaded Magnetic Nanospheres for Rapid Bacterial Capture and Decontamination
Chen GJ, Li Z, Wang XK, Xie LJ, Qi QQ, Fang WJ
MATERIALS LETTERS 134(2014) 290-294 [PDF](#)
258. Facile Ultrafast Microwave Synthesis of Monodisperse MFe₂O₄ (M=Fe, Mn, Co, Ni) Superparamagnetic Nanocrystals
Wang D, Zhou J, Zhou X, Ke XB, Chen C, Wang YR, Liu YL, Ren L
MATERIALS LETTERS 136(2014) 401-403 [PDF](#)
259. Magnetic Resonance Image Reconstruction from Undersampled Measurements Using a Patch-Based Nonlocal Operator
Qu X, Hou YK, Lam F, Guo D, Zhong JH, Chen Z
MEDICAL IMAGE ANALYSIS 18(6)(2014) 843-856 [PDF](#)
260. Localised Two-Dimensional Correlated Spectroscopy Based on Hadamard Encoding Technique
Chen YS, Zhang ZY, Lin YQ, Cai CB, Cai SH, Chen Z
MOLECULAR PHYSICS 112(19)(2014) 2602-2607 [PDF](#)
261. Enhanced Electrocatalytic Activity on Gold Nanocrystals Enclosed by High-Index Facets for Oxygen Reduction

- Ke FS, Solomon B, Ding Y, Xu GL, Sun SG, Wang ZL, Zhou XD
NANO ENERGY 7(2014) 179-188 [PDF](#)
262. Mesoporous ZnCo₂O₄ Microspheres Composed of Ultrathin Nanosheets Cross-Linked with Metallic NiSi_x Nanowires on Ni Foam as Anodes for Lithium Ion Batteries
Chen HX, Zhang QB, Wang JX, Wang Q, Zhou X, Li XH, Yang Y, Zhang KL
NANO ENERGY 10(2014) 245-258 [PDF](#)
263. Atomic Layer-by-Layer Deposition of Pt on Pd Nanocubes for Catalysts with Enhanced Activity and Durability Toward Oxygen Reduction
Xie SF, Choi SI, Lu N, Roling LT, Herron JA,
Zhang L, Park J, Wang JG, Kim MJ, Xie ZX, Mavrikakis M, Xia YN
NANO LETTERS 14(6)(2014) 3570-3576 [PDF](#)
264. Highly Magnetic Iron Carbide Nanoparticles as Effective T₂ Contrast Agents
Huang GM, Hu J, Zhang H, Zhou ZJ, Chi XQ, Gao JH
NANOSCALE 6(2)(2014) 726-730 [PDF](#)
265. Palladium Nanosheets as Highly Stable and Effective Contrast Agents for *in Vivo* Photoacoustic Molecular Imaging
Nie LM, Chen M, Sun XL, Rong PF, Zheng NF, Chen XY
NANOSCALE 6(3)(2014) 1271-1276 [PDF](#)
266. Enhanced Reversible Lithium Storage in Germanium Nano-Island Coated 3D Hexagonal Bottle-Like Si Nanorod Arrays
Yue C, Yu YJ, Wu ZG, He X, Wang JY, Li JT, Li C, Wu ST, Li J, Kang JY
NANOSCALE 6(3)(2014) 1817-1822 [PDF](#)
267. Garden-Like Perovskite Superstructures with Enhanced Photocatalytic Activity
Ye MD, Wang MY, Zheng DJ, Zhang N, Lin CJ, Lin ZQ
NANOSCALE 6(7)(2014) 3576-3584 [PDF](#)
268. Carbon Fiber/Co₉S₈ Nanotube Arrays Hybrid Structures for Flexible Quantum Dot-Sensitized Solar Cells
Guo WX, Chen C, Ye MD, Lv MQ, Lin CJ
NANOSCALE 6(7)(2014) 3656-3663 [PDF](#)
269. Bottom-Up Synthesis of Nitrogen-Doped Graphene Sheets for Ultrafast Lithium Storage
Tian LL, Wei XY, Zhuang QC, Jiang CH, Wu C, Ma GY, Zhao X, Zong ZM, Sun SG
NANOSCALE 6(11)(2014) 6075-6083 [PDF](#)
270. A Hydride-Induced-Reduction Strategy for Fabricating Palladium-Based Core-Shell Bimetallic Nanocrystals
Wang XL, Wu BH, Chen GX, Zhao Y, Liu PX, Dai Y, Zheng NF
NANOSCALE 6(12)(2014) 6798-6804 [PDF](#)
271. Wet Chemical Synthesis of Intermetallic Pt₃Zn Nanocrystals Via Weak Reduction Reaction Together with UPD Process and Their Excellent Electrocatalytic Performances
Chen QL, Zhang JW, Jia YY, Jiang ZY, Xie ZX, Zheng LS

- NANOSCALE 6(12)(2014) 7019-7024 [PDF](#)
272. Tunable T_1 and T_2 Contrast Abilities of Manganese-Engineered Iron Oxide Nanoparticles Through Size Control
Huang GM, Li H, Chen JH, Zhao ZH, Yang LJ, Chi XQ, Chen Z, Wang XM, Gao JH
NANOSCALE 6(17)(2014) 10404-10412 [PDF](#)
273. Ultra-Bright Alkylated Graphene Quantum Dots
Feng L, Tang XY, Zhong YX, Liu YW, Song XH, Deng SL, Xie SY, Yan JW, Zheng LS
NANOSCALE 6(21)(2014) 12635-12643 [PDF](#)
274. Thermal Conductivity of Twisted Bilayer Graphene
Li HY, Ying H, Chen XP, Nika DL, Cocemasov AI, Cai WW, Balandin AA, Chen SS
NANOSCALE 6(22)(2014) 13402-13408 [PDF](#)
275. Platinum Nanoparticles on Porphyrin Functionalized Graphene Nanosheets as a Superior Catalyst for Methanol Electrooxidation
Wang RX, Fan JJ, Fan YJ, Zhong JP, Wang L, Sun SG, Shen XC
NANOSCALE 6(24)(2014) 14999-15007 [PDF](#)
276. Planar Mobius Aromatic Pentalenes Incorporating 16 and 18 Valence Electron Osmiums
Zhu CQ, Luo M, Zhu Q, Zhu J, Schleyer PVR, Wu JIC, Lu X, Xia HP
NATURE COMMUNICATIONS 5(2014) 3265 [PDF](#)
277. Coherent Quantum Transport in Disordered Systems: II. Temperature Dependence of Carrier Diffusion Coefficients from the Time-Dependent Wavepacket Diffusion Method
Zhong XX, Zhao Y, Cao JS
NEW JOURNAL OF PHYSICS 16(2014) 045009 [PDF](#)
278. Computations Offer an Unconventional Route to Metallaphosphabenzene from a Half-Phosphametalocene
Huang C, Hao YL, Zhao YF, Zhu J
ORGANOMETALLICS 33(3)(2014) 817-822 [PDF](#)
279. Mechanism of Carbon Monoxide Induced N-N Bond Cleavage of Nitrous Oxide Mediated by Molybdenum Complexes: a DFT Study
Xie HJ, Yang L, Ye XC, Cao ZX
ORGANOMETALLICS 33(7)(2014) 1553-1562 [PDF](#)
280. Theoretical Study on the Stability and Aromaticity of Metallasilapentalynes
Wang XR, Zhu CQ, Xia HP, Zhu J
ORGANOMETALLICS 33(7)(2014) 1845-1850 [PDF](#)
281. Unconventional Facile Way To Metallaphthalenes From Metal Indenyl Complexes Predicted By DFT Calculations: Origin of Their Different Thermodynamics and Tuning Their Kinetics By Substituents
Fan JL, Wang XR, Zhu J
ORGANOMETALLICS 33(9)(2014) 2336-2340 [PDF](#)
282. N-P Bond Cleavage Induced Ring Formation of Cyclosilazanes from Reactions of

- Aryl(Phosphanyl)Aminotrichlorosilanes with Lithium Alkynyls
Wang JJ, Liu R, Ruan WQ, Li Y, Mondal KC, Roesky HW, Zhu HP
ORGANOMETALLICS 33(11)(2014) 2696-2703 [PDF](#)
283. Synthesis, Structure, and Reactivity of an Osmacyclopentene Complex
Han FF, Wang TD, Li JH, Zhang H, Zhang LY, He XM, Xia HP
ORGANOMETALLICS 33(19)(2014) 5301-5307 [PDF](#)
284. Interconversion between Ruthenacyclohexadiene and Ruthenabenzene: a Combined Experimental and Theoretical Study
Zhang H, Lin R, Li JH, Zhu J, Xia HP
ORGANOMETALLICS 33(19)(2014) 5606-5609 [PDF](#)
285. Enhancing Electron Transport in Molecular Wires by Insertion of a Ferrocene Center
Sun YY, Peng ZL, Hou R, Liang JH, Zheng JF, Zhou XY, Zhou XS, Jin S, Niu ZJ, Mao BW
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(6)(2014) 2260-2267 [PDF](#)
286. Hydrogen Bonding in Microsolvation: Photoelectron Imaging and Theoretical Studies on $Au_x^{-(H_2O)_n}$ and $Au_x^{-(CH_3OH)_n}$ ($x=1, 2; n=1, 2$) Complexes
Wu X, Tan K, Tang ZC, Lu X
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(10)(2014) 4771-4777 [PDF](#)
287. Dissociation Rates of H_2 on a Ni(100) Surface: the Role of the Physisorbed State
Wang WJ, Zhao Y
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(26)(2014) 13318-13328 [PDF](#)
288. High Activity of Cubic PtRh Alloys Supported on Graphene Towards Ethanol Electrooxidation
Rao L, Jiang YX, Zhang BW, Cai YR, Sun SG
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(27)(2014) 13662-13671 [PDF](#)
289. A QM/MM MD Insight Into Photodynamics of Hypoxanthine: Distinct Nonadiabatic Decay Behaviors Between Keto-N7H and Keto-N9H Tautomers in Aqueous Solution
Guo XG, Zhao Y, Cao ZX
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(29)(2014) 15381-15388 [PDF](#)
290. Ultrafast Relaxation Dynamics of Phosphine-Protected, Rod-Shaped Au_{20} Clusters: Interplay Between Solvation and Surface Trapping
Zhou M, Long SR, Wan XK, Li Y, Niu YL, Guo QJ, Wang QM, Xia AD
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(34)(2014) 18288-18293 [PDF](#)
291. A QM/MM MD Study of the Ph-Dependent Ring-Opening Catalysis and Lid Motif Flexibility in Glucosamine 6-Phosphate Deaminase
Zhao Y, Chen NH, Wu RB, Cao ZX
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(34)(2014) 18406-18417 [PDF](#)
292. Tunable Thermodynamic Stability of Au-CuPt Core-Shell Trimetallic Nanoparticles by Controlling the Alloy Composition: Insights from Atomistic Simulations
Huang R, Shao GF, Wen YH, Sun SG
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(41)(2014) 22754-22761 [PDF](#)

293. A Full Picture of Enzymatic Catalysis by Hydroxynitrile Lyases from *Hevea Brasiliensis*: Protonation Dependent Reaction Steps and Residue-Gated Movement of the Substrate and the Product
Zhao Y, Chen NH, Mo YR, Cao ZX
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(48)(2014) 26864-26875 [PDF](#)
294. A Novel Detection Scheme for High-Resolution Two-Dimensional Spin-Echo Correlated Spectra in Inhomogeneous Fields
Huang YQ, Zhang ZY, Cai SH, Chen Z
PLOS ONE 9(1)(2014) e84032 [PDF](#)
295. High-Resolution H-1 NMR Spectroscopy of Fish Muscle, Eggs and Small Whole Fish Via Hadamard-Encoded Intermolecular Multiple-Quantum Coherence
Cai HH, Chen YS, Cui XH, Cai SH, Chen Z
PLOS ONE 9(1)(2014) e86422 [PDF](#)
296. Syntheses and Catalytic Oxidation of Tetrameric and Polymeric Copper(II) 1,3-Propanediaminetetraacetates
Chen ML, Zhou ZH
POLYHEDRON 81(2014) 142-146 [PDF](#)
297. Synthesis and Volume Phase Transition of Concanavalin A-Based Glucose-Responsive Nanogels
Ye T, Yan ST, Hu YM, Ding L, Wu WT
POLYMER CHEMISTRY 5(1)(2014) 186-194 [PDF](#)
298. Tailoring the Glucose-Responsive Volume Phase Transition Behaviour of Ag@Poly(Phenylboronic Acid) Hybrid Microgels: From Monotonous Swelling to Monotonous Shrinking Upon Adding Glucose At Physiological P
Ye T, Jiang XM, Xu WT, Zhou MM, Hu YM, Wu WT
POLYMER CHEMISTRY 5(7)(2014) 2352-2362 [PDF](#)
299. Unimolecular Micelles Composed of Inner Coil-Like Blocks and Outer Rod-Like Blocks Crafted by Combination of Living Polymerization with Click Chemistry
Pang XC, Feng CW, Xu H, Han W, Xin XK, Xia HP, Qiu F, Lin ZQ
POLYMER CHEMISTRY 5(8)(2014) 2747-2755 [PDF](#)
300. Graphene Cover-Promoted Metal-Catalyzed Reactions
Yao YX, Fu Q, Zhang YY, Weng XF, Li H, Chen MS, Jin L, Dong AY, Mu RT, Jiang P, Liu L, Bluhm H, Liu Z, Zhang SB, Bao XH
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 111(48)(2014) 17023-17028 [PDF](#)
301. Polyvinyl Pyrrolidone-Assisted Synthesis of a Fe₃O₄/Graphene Composite with Excellent Lithium Storage Properties
Cai MC, Qian H, Wei ZK, Chen JJ, Zheng MS, Dong QF
RSC ADVANCES 4(13)(2014) 6379-6382 [PDF](#)
302. Single-Crystalline and Multiple-Twinned Gold Nanoparticles: An Atomistic Perspective on Structural and Thermal Stabilities
Huang R, Wen YH, Shao GF, Zhu ZZ, Sun SG

- RSC ADVANCES 4(15)(2014) 7528-7537 [PDF](#)
303. Enhanced Photodegradation Activity of Methyl Orange Over Z-Scheme Type MoO₃-g-C₃N₄ Composite Under Visible Light Irradiation
He YM, Zhang LH, Wang XX, Wu Y, Lin HJ, Zhao LH, Weng WZ, Wan HL, Fan MH
RSC ADVANCES 4(26)(2014) 13610-13619 [PDF](#)
304. Transformations and Reductions of Gamma-Octamolybdates with Their Monomeric and Dimeric Amino Polycarboxylates
Chen QL, Huang W, Chen ML, Lin J, Cao ZX, Zhou ZH
RSC ADVANCES 4(50)(2014) 26499-26507 [PDF](#)
305. Efficient Ru-Fe Catalyzed Selective Hydrogenolysis of Carboxylic Acids To Alcoholic Chemicals
Li WJ, Ye LM, Long P, Chen J, Ariga H, Asakura K, Yuan YZ
RSC ADVANCES 4(55)(2014) 29072-29082 [PDF](#)
306. MnO₂ Nanoflakes Anchored on Reduced Graphene Oxide Nanosheets as High Performance Anode Materials for Lithium-Ion Batteries
Cao Y, Lin XG, Zhang CL, Yang C, Zhang Q, Hu WQ, Zheng MS, Dong QF
RSC ADVANCES 4(57)(2014) 30150-30155 [PDF](#)
307. Exploiting Na₂MnPO₄F as a High-Capacity and Well-Reversible Cathode Material for Na-Ion Batteries
Lin XC, Hou X, Wu XB, Wang SH, Gao M, Yang Y
RSC ADVANCES 4(77)(2014) 40985-40993 [PDF](#)
308. Cs-Substituted Tungstophosphate-Supported Ruthenium Nanoparticles as Efficient and Robust Bifunctional Catalysts for the Conversion of Inulin and Cellulose into Hexitols in Water in the Presence of H₂
Deng WP, Zhu EZ, Liu M, Zhang QH, Wang Y
RSC ADVANCES 4(81)(2014) 43131-43141 [PDF](#)
309. A Potentially Low-Cost Modified Sawdust (MSD) Effective for Rapid Cr(VI) and As(V) Removal from Water
Hao LL, Liu Q, Li XL, Du ZL, Wang P
RSC ADVANCES 4(91)(2014) 49569-49576 [PDF](#)
310. Star-Like Polymer Click-Functionalized with Small Capping Molecules: An Initial Investigation into Properties and Improving Solubility in Liquid Crystals
Iocozzia J, Xu H, Pang XC, Xia HP, Bunning T, White T, Lin ZQ
RSC ADVANCES 4(91)(2014) 50212-50219 [PDF](#)
311. Influence of Vanadium Compound Coating on Lithium-Rich Layered Oxide Cathode for Lithium-Ion Batteries
Liao SX, Shen CH, Zhong YJ, Yan WH, Shi XX, Pei SS, Guo XD, Zhong BH, Wang XL, Liu H
RSC ADVANCES 4(99)(2014) 56273-56278 [PDF](#)
312. A Corannulene-Based Donor-Acceptor Polymer for Organic Field-Effect Transistors
Lu RQ, Xuan W, Zheng YQ, Zhou YN, Yan XY, Dou JH, Chen R, Pei J, Weng WG, Cao XY

- RSC ADVANCES 4(100)(2014) 56749-56755 [PDF](#)
313. Interfacial Effects in Iron-Nickel Hydroxide-Platinum Nanoparticles Enhance Catalytic Oxidation
Chen GX, Zhao Y, Fu G, Duchesne PN, Gu L, Zheng YP,
Weng XF, Chen MS, Zhang P, Pao CW, Lee JF, Zheng NF
SCIENCE 344(6183)(2014) 495-499 [PDF](#)
314. Analytical Derivative Techniques for TDDFT Excited-State Properties: Theory and Application
Chen DP, Liu J, Ma HL, Zeng Q, Liang WZ
SCIENCE CHINA-CHEMISTRY 57(1)(2014) 48-57 [PDF](#)
315. Facile Synthesis of Size-Tunable ZIF-8 Nanocrystals Using Reverse Micelles as Nanoreactors
Zhao XJ, Fang XL, Wu BH, Zheng LS, Zheng NF
SCIENCE CHINA-CHEMISTRY 57(1)(2014) 141-146 [PDF](#)
316. VBEFP/PCM: a QM/MM/PCM Approach for Valence-Bond Method and Its Application for the
Vertical Excitations of Formaldehyde and Acetone in Aqueous Solution
Huang J, Ying FM, Su PF, Wu W
SCIENCE CHINA-CHEMISTRY 57(10)(2014) 1409-1417 [PDF](#)
317. Design and Characterization of Methyl Mercaptan Biosensor Using Alcohol Oxidase
Li ZH, Sun SG, Marty JL
SENSORS AND ACTUATORS B-CHEMICAL 192(2014) 680-684 [PDF](#)
318. Self- Assembly of DNA Nanotubes with Defi Ned Diameters and Lengths
Qian H, Tian C, Yu JW, Guo F, Zheng MS, Jiang W, Dong QF, Mao CD
SMALL 10(5)(2014) 855-858 [PDF](#)
319. Tunable Organic Hetero-Patterns Via Molecule Diffusion Control
Wang H, Wang WC, Li LQ, Hirtz M, Wang CG, Wang Y, Xie ZX, Fuchs H, Chi LF
SMALL 10(15)(2014) 3045-3049 [PDF](#)
320. Sub-10-Nm Pd Nanosheets with Renal Clearance for Efficient Near-Infrared Photothermal Cancer
Therapy
Tang SH, Chen M, Zheng NF
SMALL 10(15)(2014) 3139-3144 [PDF](#)
321. Bis-Adducts of Benzocyclopentane- and Acenaphthene-C₆₀ Superior to Mono-Adducts as Electron
Acceptors in Polymer Solar Cells
Tian CB, Deng LL, Zhang ZQ, Dai SM, Gao CL, Xie SY, Huang RB, Zheng LS
SOLAR ENERGY MATERIALS AND SOLAR CELLS 125(2014) 198-205 [PDF](#)
322. The Investigation of the Interaction between Tropicamide and Bovine Serum Albumin by
Spectroscopic Methods
Yu XY, Liao ZX, Yao Q, Liu HT, Li XF, Yi PG
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR
SPECTROSCOPY 118(2014) 331-336 [PDF](#)
323. Spectroscopic Studies on the Interaction of Phacolysin and Bovine Serum Albumin
Yu XY, Liao ZX, Yao Q, Liu HT, Xie WL

- SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR
SPECTROSCOPY 127(2014) 231-236 [PDF](#)
324. Interaction between Pirenoxine and Bovine Serum Albumin in Aqueous Solution
Liao ZX, Yu XY, Yao Q, Yi PG
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR
SPECTROSCOPY 129(2014) 314-319 [PDF](#)
325. Synthesis, Characterization, and Biological Activities of Two Cu(II) and Zn(II) Complexes with
One Polyquinoline Ligand
Lu J, Li JL, Sun Q, Jiang L, Gu W, Liu X, Tian JL, Yan SP
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR
SPECTROSCOPY 130(2014) 390-396 [PDF](#)
326. Study on the Interaction between Carbonyl-Fused N-Confused Porphyrin and Bovine Serum
Albumin by Spectroscopic Techniques
Yu XY, Liao ZX, Jiang BF, Zheng LY, Li XF
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR
SPECTROSCOPY 133(2014) 372-377 [PDF](#)
327. Theoretical Study on Conformational Features and Cation-Binding Properties of a Diquinone
Calix[4]Arene
Xia Y, Wang XY
SUPRAMOLECULAR CHEMISTRY 26(1)(2014) 32-38 [PDF](#)
328. Highly Diastereoselective Synthesis of Cyclopentenones Via a One-Pot Gold Catalysis, Nazarov
Cyclization and Alkylation Cascade
Liu MQ, Zhou AH, Jiang S, Wang JQ, Ye LW
SYNTHESIS-STUTTGART 46(16)(2014) 2161-2167 [PDF](#)
329. Size Effect of Gold Nanoparticles Supported on Carbon Nanotube as Catalysts in Selected Organic
Reactions
Jawale DV, Gravel E, Geertsen V, Li HY, Shah N, Kumar R, John J, Namboothiri INN, Doris E
TETRAHEDRON 70(36)(2014) 6140-6145 [PDF](#)
330. Base-Promoted Reaction of C₆₀C₁₆ with Thioamides: An Access to [60] Fullereno[1,9-D] Thiazoles
Yan P, Tian CB, Gao CL, Zhang Q, Zhan ZP, Xie SY, Lin M, Huang RB, Zheng LS
TETRAHEDRON 70(38)(2014) 6776-6780 [PDF](#)
331. The V State of Ethylene: Valence Bond Theory Takes Up the Challenge
Wu W, Zhang HY, Braida B, Shaik S, Hiberty PC
THEORETICAL CHEMISTRY ACCOUNTS 133(3)(2014) 1441 [PDF](#)
332. DFT and TD-DFT Studies on Osmacycle Dyes with Tunable Photoelectronic Properties for Solar
Cells
Sun MJ, Cao ZX
THEORETICAL CHEMISTRY ACCOUNTS 133(8)(2014) 1531 [PDF](#)
333. Pt-Promoted Cu/SBA-15 Catalysts with Excellent Performance for Chemoselective Hydrogenation

of Dimethyl Oxalate to Ethylene Glycol

Zheng XL, Lin HQ, Zheng JW, Ariga H, Asakura K, Yuan YZ

TOPICS IN CATALYSIS 57(10-13)(2014) 1015-1025 [PDF](#)

334. Selective Oxidation of Sulfides and Hydrocarbons with H₂O₂ over Manganese Catalyst Supported on Nanoparticles

Ghorbanloo M, Tarasi R, Tao J, Yahiro H

TURKISH JOURNAL OF CHEMISTRY 38(3)(2014) 488-503 [PDF](#)

335. A Comparative Study of Crystallographic Van Der Waals Radii

Hu SZ, Zhou ZH, Xie ZX, Robertson BE

ZEITSCHRIFT FUR KRISTALLOGRAPHIE 229(7)(2014) 517-523 [PDF](#)

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1. Surface-Enhanced Raman Spectroscopy and Plasmon-Assisted photocatalysis of p-Aminothiophenol
Zhao LB, Huang YF, Wu DY, Ren B
ACTA CHIMICA SINICA 72(11) (2014) 1125-1138
2. Influence of Cs Substitution on the Structural Properties and Catalytic Performance of Ni-H₃PW₁₂O₄₀/SiO₂ Catalysts
Jin H, Sun XD, Dong S, Wu YZ, Sun SH, Liu J, Zhu HH, Yang G, Yi XD, Fang WP
ACTA PHYSICO-CHIMICA SINICA 30(3) (2014) 527-534
3. Synthesis of Nanostructured LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ by Ammonia-Evaporation-Induced Synthesis and Its Electrochemical Properties as a Cathode Material for a High-Power Li-Ion Battery
Hua WB, Zheng Z, Li LY, Guo XD, Liu H, Shen CH, Wu ZG, Zhong BH, Huang L
ACTA PHYSICO-CHIMICA SINICA 30(8) (2014) 1481-1486
4. Anomalous IR Optical Properties of Monodispersed ptNi Nanoparticles
Zhou XW, Du JJ, Sun SG
ACTA PHYSICO-CHIMICA SINICA 30(9) (2014) 1681-1687
5. Density Functional Theory Calculations of the Influence of Weak Hydrogen Bonding Interactions on the Raman Spectra of Thiourea in Aqueous Solution
Su YQ, Wu DY, Tian ZQ
ACTA PHYSICO-CHIMICA SINICA 30(11) (2014) 1993-1999
6. Preparation of Pt Hollow Nanoparticles Using Ag as the Template and Electrocatalytic performance for Methanol Oxidation
Xiong T, Lin JY, Shang ZJ, Zhang XT, Lin X, Tian W, Zhong QL, Ren B
CHEMICAL JOURNAL OF CHINESE UNIVERSITIES 35(11) (2014) 2460-2465
7. Preparation of (PtAuPt)_{HN}/GC and Its Electrocatalytic Performance for Formic Acid Oxidation
Shang ZJ, Yan LL, Rao GS, Xiong T, Tian W, Lin X, Zhong QL, Ren B

8. The Effects of Surface Ligands and Counter Cations on the Stability of Anionic Thiolated $M_{12}Ag_{32}$ (M = Au Ag) Nanoclusters
Zhang X, Yang HY, Zhao XJ, Wang Y, Zheng NF
CHINESE CHEMICAL LETTERS 25(6) (2014) 839-843
9. Oxidative Dehydrogenation of Ethane to Ethylene in the Presence of HCl over CeO₂-Based Catalysts
Yu FC, Wu XJ, Zhang QH, Wang Y
CHINESE JOURNAL OF CATALYSIS 35 (2014) 1260-1266
10. O-18 Isotopic Study of Photo-Induced Formation of Peroxide Species on Cubic Nd₂O₃
Ling XL, She WY, Weng WZ, Li JM, Xia WS, Wan HL
CHINESE JOURNAL OF CATALYSIS 35(8) (2014) 1385-1393
11. Density Functional Theory Study on Spin States of LaCoO₃ at Room Temperature
Zhang XB, Fu G, Wan HL
CHINESE JOURNAL OF CHEMICAL PHYSICS 27(3) (2014) 274-278
12. Interaction between Three Cobalt(II) Glycollates and Bovine Serum Albumin Studied by Fluorescence Spectrum
Lin HB, Zhou ZH, Wang QH, Wang QX
CHINESE JOURNAL OF INORGANIC CHEMISTRY 30(7) (2014) 1559-1566
13. One-Dimensional GdIII–MII (M = Mn Co) Acetate Chains Exhibiting a Large Cryogenic Magnetocaloric Effect at $\Delta H = 3$ T
Pan YY, Yang Y, Long LS, Huang RB, Zheng LS
INORGANIC CHEMISTRY FRONTIERS 1 (2014) 649-652
14. Effect of Pretreatment of Carbon Support on Electrocatalytic Properties of Pt/C Nanocatalysts
Cai YR, Huang R, Huang L, Rao L, Chen SP, Zhou ZY, Sun SG
JOURNAL OF CHEMICAL INDUSTRY AND ENGINEERING(CHINA) 65(11) (2014) 4356-4362
15. Pulse Electrodeposition of Pd-Ni Alloy Nanoparticles for Electrocatalytic Oxidation of Formic Acid
Yang FZ, Yue JP, Tian ZQ, Zhou SM
JOURNAL OF ELECTROCHEMISTRY 20(1) (2014) 5-11
16. Underpotential Deposition of Germanium on Au(111) and Pt(111) Surfaces in Ionic Liquids
Xie XF, Yan JW, Liang JH, Li JJ, Zhang M, Mao BW
JOURNAL OF ELECTROCHEMISTRY 20(1) (2014) 12-16
17. Synthesis and Electrochemical Properties of LiCo_{1-x}Mg_xMnO₄ and LiCo_{1-x}Al_xMnO₄ (x= 0, 0.02, 0.05, 0.1) as Positive Materials for Lithium-Ion Batteries
You ML, Tong QS, Li XH, Lin M, Huang XK, Yang Y
JOURNAL OF ELECTROCHEMISTRY 20(1) (2014) 22-27
18. *In Situ* Detection on Electrochemical Chloride Removal of Reinforcement in Concrete by Combined pH/Cl⁻ Probes
Wang JJ, Dong SG, Zhang XJ, Lv HW, Wu YC, Du RG, Lin CJ

- JOURNAL OF ELECTROCHEMISTRY 20(2) (2014) 95-100
19. Preparation and Electrochemical Performances of CoFe₂O₄/GNS Nanocomposites as Anode Material for Lithium Ion Battery
Cai MC, Cai SR, Zheng MS, Dong QF
JOURNAL OF ELECTROCHEMISTRY 20(2) (2014) 101-104
 20. Preparation of Pt/H-TiO₂ Catalyst with Improved Catalytic Performance for Methanol Electrooxidation
Han J, Zhou ZY, Wang Q, Lv MQ, Chen C, Sun SG
JOURNAL OF ELECTROCHEMISTRY 20(2) (2014) 110-114
 21. Microfabrication and Redox Properties of the Single Microcrystal of Na₃Co(CN)₆/NaCl Solid Solution
Zhu YL, Yang DL, Su YQ, Wu DY, Tian ZQ, Zhan DP
JOURNAL OF ELECTROCHEMISTRY 20(3) (2014) 197-200
 22. ²³Na MAS NMR Spectroscopic Study of Na₂MnPO₄F as Cathode Material for Sodium-Ion Battery
Hou X, Zhong GM, Lin XC, Liu ZG, Wu XB, Yang Y
JOURNAL OF ELECTROCHEMISTRY 20(3) (2014) 201-205
 23. *In-Situ* AFM Force Curve Investigations on Layered Structures of Au(111)-Ionic Liquid Interfaces and Temperature Dependence
Zhang X, Zhong YX, Yan JW, Mao BW
JOURNAL OF ELECTROCHEMISTRY 20(4) (2014) 295-301
 24. Cyclic Voltammetric Studies in Adsorption of Cetyltrimethylammonium Bromide (CTAB) on Au(111) Electrode
Chen L, Xu CD, Ye JY, Zhen CH, Sun SG
JOURNAL OF ELECTROCHEMISTRY 20(4) (2014) 302-306
 25. Room Temperature Ionic Liquid Templated Mes-Macroporous Material by Self-Assembled Giant Gold Nanoparticles and Its Enhancement on the Direct Electrochemistry of Cytochrome c
Li P, Zhan DP, Shao YH
JOURNAL OF ELECTROCHEMISTRY 20(4) (2014) 323-332
 26. Electrochemical and Spectroscopic Studies of Ethanol Oxidation on Nano-Cubic Pt Modified by Tin Adatoms
Rao L, Zhang BW, Li YY, Jiang YX, Sun SG
JOURNAL OF ELECTROCHEMISTRY 20 (5) (2014) 395-400
 27. Electrochemical Deposition of CoPt Alloy Thin Film and Its Abnormal Infrared Effects
Chen QS, Guo GC, Sun SG
JOURNAL OF ELECTROCHEMISTRY 20 (5) (2014) 410-415
 28. Synthesis of NaMnPO₄ by Spraying Drying-High Temperature Sintering and Its Electrochemical Performance
Lin XC, Wu XT, Hou X, Yang Y
JOURNAL OF ELECTROCHEMISTRY 20(6) (2014) 542-546

29. Platinum Hollow Nanospheres with Different Sizes: Controllable Synthesis and Electrocatalytic Oxidation toward Methanol
Lin X, Cheng MQ, Shang ZJ, Xiong T, Zhang XT, Tian W, Lin JY, Zhong QL, Ren B
JOURNAL OF ELECTROCHEMISTRY 20(6) (2014) 571-575
30. Theoretical Investigation on Mn-Corrole Catalyzed Oxidation of Cyclohexane to Adipaldehyde
Zhu C, Cao ZX
JOURNAL OF MOLECULAR SCIENCE 30(4) (2014) 265-272 2014
31. CNTs Promoted Highly Efficient Supported Pt Catalyst for Hydrogenation-De aromatization of Toluene
Liang XJ, Wei W, Liu ZM, Lin GD, Zhang HB, Li HY
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 53(1) (2014) 71-77
32. Oxidative Dehydrogenation of Propane to Propene over NaMoNiO Nanocomposite Oxide Catalysts
Li GC, Lin XZ, Sun YF, Huang CJ, Weng WZ, Wan HL
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 53(2) (2014) 221-226
33. The Performance of Oxidative Dehydrogenation of Propane on CeO₂/CeF₃ Catalysts Prepared from CeF₃ Decomposition
Jia WH, Chen MS, Wan HL
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 53(4) (2014) 520-524
34. Graphene Oxide Protected Nucleic Acid Probes and Their Applications in Bioanalysis
Cui L, Zhang WT, Lin H, Zhu Z, Yang CY
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 53(5) (2014) 611-620
35. Reduction and Alkylation of Graphene Oxides for Enemy Storage Application
Liu YW, Deng SL, Xie SY, Huang RB, Zheng LS
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 53(5) (2014) 674-681
36. Advances in Catalysts for Selective Hydrogenation of Dimethyl Oxalate
Li JH, Duan XP, Lin HQ, Ye LM, Yuan YZ
PETROCHEMICAL TECHNOLOGY 43(9) (2014) 985-9942014
37. Electrocatalytic Oxidation of Ethanol
Rao L, Jiang YX, Zhang BW, You LX, Li ZH, Sun SG
PROGRESS IN CHEMISTRY 26(5) (2014) 727-736
38. CuO-Modified LiNi_{0.5}Mn_{1.5}O₄ Cathodes for Lithium Ion Batteries
Wang J, Lin WQ, Zhang P, Zhao JB
SCIENTIA SINICA CHEMICA 44(8) (2014) 1332-1339
39. A Cleaning Method with Centrifugation for Removing Surfactants from Gold Nanoparticles and its Mechanism
Jiang QN, Yin BS, Lin HX, Li H, Yang N, Liu DY, Tian ZQ
SCIENCE CHINA CHEMISTRY 44(10) (2014) 1618-1626
40. Catalytic Site of Nitrogenases and its Chemical Simulations
Chen QL, Chen HB, Cao ZX, Zhou ZH, Wan HL, Li Y, Li JL

SCIENCE CHINA CHEMISTRY 44 (12) (2014) 1849-1864

41. Novel Chiral Macrocyclic Ligands in Asymmetric Reduction of Ketones

Shen WY, She SL, Li YY, Gao JX

SCIENCE CHINA CHEMISTRY 44 (12) (2014) 1893-1904

42. Effect of Sample Pretreatment Conditions on the Photo-Induced Formation of Peroxide Species over La_2O_3

Li JM, Jing XL, Weng WZ, Chang ZY, An DL, Xia WS, Wan HL

SCIENCE CHINA CHEMISTRY 44 (12) (2014) 1931-1937