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102. Pressure Effects on a Spin-Crossover Monomeric Compound [Fe(pmea)(SCN)₂] (pmea = bis[(2-pyridyl)methyl]-2-(2-pyridyl)ethylamine)
Li B, Wei RJ, Tao J, Huang RB, Zheng LS
INORGANIC CHEMISTRY 49(2) (2010) 745-751.....233
103. In Situ C-C Coupling and Formation of a Heptanuclear Copper(II) Cluster
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104. C₇₆Cl₃₄: High Chlorination of the Inherent Chiral Fullerene with a Helical Configuration
Liang H, Tan YZ, Zhou T, Chen ZL, Xie SY, Huang RB, Zheng LS
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105. Synthesis, Properties, and Bishomoaromaticity of the First Tetrahalogenated Derivative of a 1,5-Diphosphadithiatetrazocine: A Combined Experimental and Computational Investigation
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106. Fabrication of Apatite-Type La_{9.33}(SiO₄)₆O₂ Hollow Nanoshells as Energy-Saving Oxidative Catalysts
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107. Magnetic Behavior Control in Niccolite Structural Metal Formate Frameworks [NH₂(CH₃)₂][Fe^{III}M^{II}(HCOO)₆] (M = Fe, Mn, and Co) by Varying the Divalent Metal Ions
Zhao JP, Hu BW, Lloret F, Tao J, Yang QA, Zhang XF, Bu XH
INORGANIC CHEMISTRY 49(22) (2010) 10390-10399.....238

108. Influence of symmetric benzene-polycarboxylate acids on the structures of silver-aminopyrimidyl derivative system
Luo GG, Sun D, Zhang N, Xu QJ, Lin LR, Huang RB, Zheng LS
INORGANIC CHEMISTRY COMMUNICATIONS 13(1) (2010) 10-14.....239
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INORGANIC CHEMISTRY COMMUNICATIONS 13(2) (2010) 290-293.....240
110. A lamella 2D silver(I) coordination polymer constructed from in situ generated 2-mercaptobenzoic acid
Sun D, Luo GG, Zhang N, Xu QJ, Jin YC, Wei ZH, Yang CF, Lin LR, Huang RB, Zheng LS
INORGANIC CHEMISTRY COMMUNICATIONS 13(2) (2010) 306-309.....241
111. A new clover-shaped trinuclear uranium(VI) complex: Synthesis, structure and photoluminescence property
Sun D, Zhang N, Xu QJ, Huang RB, Zheng LS
INORGANIC CHEMISTRY COMMUNICATIONS 13(7) (2010) 859-862.....242
112. Synthesis and crystal structure of an Ag_{20} cluster incorporating in situ generated bipodal $[\text{ArP}(\text{OEt})\text{S}_2]$ and tripodal $[\text{ArPOS}_2]^{2-}$ ligands (Ar=4-methoxyphenyl)
Sun D, Wei ZH, Yang CF, Zhang N, Huang RB, Zheng LS
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113. Formations of a nonanuclear peroxo molybdate and its heptanuclear precursor
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114. Enhancement of activity of $\text{LaNi}_{0.7}\text{Cu}_{0.3}\text{O}_3$ for photocatalytic water splitting by reduction treatment at moderate temperature
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
35(11) (2010) 5270-5275.....245
115. Investigations on the effect of $\text{Cu}^{2+}/\text{Cu}^{1+}$ redox couples and oxygen vacancies on photocatalytic activity of treated $\text{LaNi}_{1-x}\text{Cu}_x\text{O}_3$ ($x=0.1, 0.4, 0.5$)
Li JJ, Zeng JL, Jia LS, Fang WP
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
35(23) (2010) 12733-12740.....246
116. Theoretical studies on structures and electronic spectra of linear $\text{HC}_{2n+1}\text{H}^+$ ($n=2-7$)
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- 290(2-3) (2010) 113-119.....247
117. Synthesis and electrochemical performance of porous $\text{Li}_2\text{FeSiO}_4/\text{C}$ cathode material for long-life lithium-ion batteries
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JOURNAL OF ALLOYS AND COMPOUNDS 493(1-2) (2010) 77-80.....248
118. Electrochemical behavior of copper current collector in imidazolium-based ionic liquid electrolytes
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JOURNAL OF APPLIED ELECTROCHEMISTRY 40(3) (2010) 653-662.....249
119. Size-dependences of the dielectric and ferroelectric properties of BaTiO_3 /polyvinylidene fluoride nanocomposites
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JOURNAL OF APPLIED PHYSICS 108(1) (2010) 014102.....250
120. Polyaniline/Carbon Black Composite as Pt Electrocatalyst Supports for Methanol Oxidation: Synthesis and Characterization
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JOURNAL OF APPLIED POLYMER SCIENCE 118(4) (2010) 2034-2042.....251
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122. Copper-catalyzed propylene epoxidation by oxygen: Significant promoting effect of vanadium on unsupported copper catalyst
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JOURNAL OF CATALYSIS 276(1) (2010) 76-84.....253
123. Two 3D Supramolecular Architectures Assembled With 1D or 2D Coordination Polymers by Cooperation of Coordination Bonds, Hydrogen Bonds and $\pi \cdots \pi$ Interactions
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JOURNAL OF CHEMICAL CRYSTALLOGRAPHY 40(6) (2010) 551-556.....254
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6(3) (2010) 940-953.....256
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JOURNAL OF CHEMICAL THEORY AND COMPUTATION
6(5) (2010) 1462-1469.....257
127. The structure, stability, and reactivity of oxalato-monoperoxovanadium(V) in solution
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JOURNAL OF COORDINATION CHEMISTRY 63(18) (2010) 3268-3278.....258
128. Synthesis, spectroscopic, and structural characterization of two malate zinc coordination polymers with imidazole or 2,2'-bipyridine
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JOURNAL OF COORDINATION CHEMISTRY 63(20) (2010) 3589-3598.....259
129. An electrochemical method for selective detection of dopamine by depleting ascorbic acid in diffusion layer
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JOURNAL OF ELECTROANALYTICAL CHEMISTRY 640(1-2) (2010) 51-55.....260
130. In situ microscope FTIR spectroscopic studies of interfacial reactions of Sn-Co alloy film anode of lithium ion battery
Li JT, Chen SR, Ke FS, Wei GZ, Huang L, Sun SG
JOURNAL OF ELECTROANALYTICAL CHEMISTRY
649(1-2) (2010) 171-176.....261
131. Nitrogen-doped TiO₂ nanotube array films with enhanced photocatalytic activity under various light sources
Lai YK, Huang JY, Zhang HF, Subramaniam VP,
Tang YX, Gong DG, Sundar L, Sun L, Chen Z
JOURNAL OF HAZARDOUS MATERIALS 184(1-3) (2010) 855-863.....262
132. Intermolecular single-quantum coherence sequences for high-resolution NMR spectra in inhomogeneous fields
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JOURNAL OF MAGNETIC RESONANCE 203(1) (2010) 100-107.....263
133. Ultrafast 2D COSY with constant-time phase-modulated spatial encoding
Wu C, Zhao MF, Cai SH, Lin YL, Chen Z

- JOURNAL OF MAGNETIC RESONANCE 204(1) (2010) 82-90.....264
134. Au^I: an alternative and potentially better precursor than Au^{III} for the synthesis of Au nanostructures
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135. Synthesis of small silver nanocubes in a hydrophobic solvent by introducing oxidative etching with Fe(III) species
Ma YY, Li WY, Zeng J, McKiernan M, Xie ZX, Xia YN
JOURNAL OF MATERIALS CHEMISTRY 20(18) (2010) 3586-3589.....266
136. Room-temperature ferromagnetic/ferroelectric BiFeO₃ synthesized by a self-catalyzed fast reaction process
Wu JT, Mao SY, Ye ZG, Xie ZX, Zheng LS
JOURNAL OF MATERIALS CHEMISTRY 20(31) (2010) 6512-6516.....267
137. Superparamagnetic core-shell polymer particles for efficient purification of his-tagged proteins
Fang WJ, Chen XL, Zheng NF
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JOURNAL OF MATERIALS CHEMISTRY 20(45) (2010) 10169-10178.....269
139. Lysine-attached anodic aluminum oxide (AAO)-silica affinity membrane for bilirubin removal
Shi W, Shen YQ, Jiang HR, Song CF, Ma YY, Mu J, Yang BY, Ge DT
JOURNAL OF MEMBRANE SCIENCE 349(1-2) (2010) 333-340.....270
140. Poly(pyrrole-3-carboxylic acid)-alumina composite membrane for affinity adsorption of bilirubin
Shi W, Cao HH, Song CF, Jiang HR, Wang J, Jiang SH, Tu J, Ge DT
JOURNAL OF MEMBRANE SCIENCE 353(1-2) (2010) 151-158.....271
141. Affinity electromembrane: Electrically facilitated adsorption
Shi W, Ma YY, Song CF, Jiang HR, Ru XN, Tu J, Jiang SH, Wang J, Ge DT
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142. Synthesis and characterization of Nafion/cross-linked PVP semi-interpenetrating polymer network membrane for direct methanol fuel cell

- Li T, Zhong GM, Fu RQ, Yang Y
JOURNAL OF MEMBRANE SCIENCE 354(1-2) (2010) 189-197.....273
143. Promotive effect of Bi component on propane partial oxidation over MoBiTeO_x/SiO₂ catalysts
He YM, Wu Y, Yi XD, Weng WZ, Wan HL
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL 331(1-2) (2010) 1-6.....274
144. Influence of aminopyrimidyl derivatives on the supramolecular architectures and abundant nonvalent interactions of silver 5-nitroisophthalate coordination polymers
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JOURNAL OF MOLECULAR STRUCTURE 967(1-3) (2010) 147-152.....275
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JOURNAL OF MOLECULAR STRUCTURE 967(1-3) (2010) 153-158.....276
146. A novel silver(I)-containing supramolecular framework incorporating eight different hydrogen bond motifs
Sun D, Zhang N, Xu QJ, Luo GG, Huang RB, Zheng LS
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150. Theoretical study on a family of organic molecules with planar tetracoordinate carbon
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JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM 941(1-3) (2010) 41-46.....281
151. The Relationship Between Extraordinary Optical Transmission and Surface-Enhanced Raman

- Scattering in Subwavelength Metallic Nanohole Arrays
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 JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY
 10(11) (2010) 7188-7191.....282
152. Self-Assembled CoPt Nanoparticles Monolayer Film and Its IR Optical Properties
 Zhou XW, Zhang RH, Jiang YX, Sun SG
 JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY
 10(12) (2010) 8265-8270.....283
153. VBSCF Calculations on the Bimolecular (E2) Elimination Reaction. The Nature of the
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 JOURNAL OF ORGANIC CHEMISTRY 75(11) (2010) 3722-3728.....284
154. A novel 3D silver(I) supramolecular framework assembled from hybrid ligands incorporating
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 Sun D, Zhang N, Xu QJ, Huang RB, Zheng LS
 JOURNAL OF ORGANOMETALLIC CHEMISTRY
 695(10-11) (2010) 1598-1602.....285
155. XPS and ToF-SIMS study of Sn-Co alloy thin films as anode for lithium ion battery
 Li JT, Swiatowska J, Seyeux A, Huang L, Maurice V, Sun SG, Marcus P
 JOURNAL OF POWER SOURCES 195(24) (2010) 8251-8257.....286
156. A Facile synthesis of flower-like Co₃O₄ porous spheres for the lithium-ion battery electrode
 Zheng J, Liu J, Lv DP, Kuang Q, Jiang ZY, Xie ZX, Huang RB, Zheng LS
 JOURNAL OF SOLID STATE CHEMISTRY 183(3) (2010) 600-605.....287
157. One-dimensional CoPt nanorods and their anomalous IR optical properties
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159. Low temperature synthesis of LiNiO₂@LiCoO₂ as cathode materials for lithium ion batteries
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 JOURNAL OF SOLID STATE ELECTROCHEMISTRY
 14(6) (2010) 1117-1124.....290
160. Silicon nanowires with and without carbon coating as anode materials for lithium-ion
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- Chen HX, Dong ZX, Fu YP, Yang Y
 JOURNAL OF SOLID STATE ELECTROCHEMISTRY
 14(10) (2010) 1829-1834.....291
161. Solvent-Induced Transformation of Single Crystals of a Spin-Crossover (SCO) Compound to Single Crystals with Two Distinct SCO Centers
 Li B, Wei RJ, Tao J, Huang RB, Zheng LS, Zheng ZP
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(5) (2010) 1558-1566.....292
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 132(8) (2010) 2561-+.....301
163. Direct Electrodeposition of Tetrahedral Pd Nanocrystals with High-Index Facets and High Catalytic Activity for Ethanol Electrooxidation
 Tian N, Zhou ZY, Yu NF, Wang LY, Sun SG
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(23) (2010) 8152-8157.....306
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(27) (2010) 9244-9246.....312
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(27) (2010) 9471-9479.....315
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(28) (2010) 9534-9536.....324

168. $\text{Cu}_{24}\text{O}_{24}\text{Si}_3\text{R}_8$: Organic Soluble 56-Membered Copper(I) Siloxane Cage and Its Use in Homogeneous Catalysis
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(35) (2010) 12231-12233.....327
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 Tan YZ, Li J, Zhou T, Peng YQ, Lin SC, Lu X, Zhan ZP, Xie SY, Huang RB, Zheng LS
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(36) (2010) 12648-12652.....330
170. Simple Combustion Production and Characterization of Octahydro[60]fullerene with a Non-IPR C_{60} Cage
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(43) (2010) 15093-15095.....335
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 Zheng JP, Jiang L, Lu X, Shu CY, Wang CY
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(46) (2010) 16362-16364.....338
172. A Surface Energy Transfer Nanoruler for Measuring Binding Site Distances on Live Cell Surfaces
 Chen Y, O'Donoghue MB, Huang YF, Kang HZ,
 Phillips JA, Chen XL, Estevez MC, Yang CYJ, Tan WH
 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(46) (2010) 16559-16570.....341
173. C_{72}Cl_4 : A Pristine Fullerene with Favorable Pentagon-Adjacent Structure
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 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 132(48) (2010) 17199-17210.....356
175. Luminescent Molecular Ag-S Nanocluster $[\text{Ag}_{62}\text{S}_{13}(\text{SBu}^t)_{32}](\text{BF}_4)_4$

- Li G, Lei Z, Wang QM
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 132(50) (2010) 17678-17679.....368
176. Electrochemical Performance of the $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ in Aqueous Electrolyte
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 JOURNAL OF THE ELECTROCHEMICAL SOCIETY
 157(6) (2010) A702-A706.....370
177. The Nickel Oxide/CNT Composites with High Capacitance for Supercapacitor
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 JOURNAL OF THE ELECTROCHEMICAL SOCIETY
 157(7) (2010) A818-A823.....371
178. Effect of High-Level Layer Selection in Oniom On Na^+ Adsorption in ZSM-5 Zeolite
 Chu ZK, Fu G, Guo WP, Xu X
 JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY
 9(s1) (2010)39-47.....372
179. Agarose droplet microfluidics for highly parallel and efficient single molecule emulsion PCR
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180. pH-Induced Simultaneous Synthesis and Self-Assembly of 3D Layered β -FeOOH Nanorods
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181. Shape-Dependent Antibacterial Activities of Ag_2O Polyhedral Particles
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182. STM Study on Nonionic Fluorosurfactant Zonyl FSN Self-Assembly on Au(100): (3/11/1)
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 LANGMUIR 26(6) (2010) 3829-3834.....378
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 LANGMUIR 26(23): 18113-18118.....379
184. High-Resolution MRS in the Presence of Field Inhomogeneity via Intermolecular
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 MAGNETIC RESONANCE IN MEDICINE 63(2) (2010) 303-311.....380

185. Highly Efficient Square Wave Distant Dipolar Field and Its Application for In Vivo MRI
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MAGNETIC RESONANCE IN MEDICINE 64(4) (2010) 1128-1134.....381
186. Fabrication of Large-Scale One-Dimensional Au Nanochain and Nanowire Networks by Interfacial Self-Assembly
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MATERIALS CHEMISTRY AND PHYSICS 119(1-2) (2010) 153-157.....382
187. The effects of quenching treatment and AlF₃ coating on LiNi_{0.5}Mn_{0.5}O₂ cathode materials for lithium-ion battery
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MATERIALS CHEMISTRY AND PHYSICS 119(3) (2010) 519-523.....383
188. Syntheses and optical properties of α - and β -Zn₂SiO₄: Mn nanoparticles by solvothermal method in ethylene glycol-water system
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189. Solvothermal synthesis and Curie temperature of monodispersed barium titanate nanoparticles
Mao YP, Mao SY, Ye ZG, Xie ZX, Zheng LS
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190. Modulation effects of collagen I on the structure of electrochemically deposited hydroxyapatite coating
Hu R, Lin CJ, Wang H, Tao T
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191. Fabrication of patterned CdS/TiO₂ heterojunction by wettability template-assisted electrodeposition
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192. Fabrication of gelatin-siloxane fibrous mats via sol-gel and electrospinning procedure and its application for bone tissue engineering
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MATERIALS SCIENCE & ENGINEERING C 30(3) (2010) 437-444.....388
193. Conjugation of membrane-destabilizing peptide onto gelatin-siloxane nanoparticles for efficient gene expression
Yin P, Wang J, Ren L, Wang ZY, Wang TX, Wang D, Tian MM, Tian XH
MATERIALS SCIENCE & ENGINEERING C 30(8) (2010)1260-1265.....389

194. Application of polypyrrole/GOx film to glucose biosensor based on electrochemical-surface plasmon resonance technique
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MICROCHIMICA ACTA 169(3-4) (2010) 269-275.....390
195. High-resolution NMR spectra in inhomogeneous and unstable fields via the three-pulse method
Peng L, Zheng ZY, Huang YQ, Zhang ZM, Cai SH, Chen Z
MOLECULAR PHYSICS 108(14) (2010) 1869-1875.....391
196. The fabrication and characterization of adjustable nanogaps between gold electrodes on chip for electrical measurement of single molecules
Tian JH, Yang Y, Liu B, Sch öllhorn B, Wu DY, Maisonhaute E, Muns AS, Chen Y, Amatore C, Tao NJ, Tian ZQ
NANOTECHNOLOGY 21(27) (2010) 274012.....392
197. An insight into the metabolic responses of ultra-small superparamagnetic particles of iron oxide using metabonomic analysis of biofluids
Feng JH, Liu HL, Zhang LM, Bhakoo K, Lu LH
NANOTECHNOLOGY 21(39) (2010) 395101.....393
198. Shell-isolated nanoparticle-enhanced Raman spectroscopy
Li JF, Huang YF, Ding Y, Yang ZL, Li SB, Zhou XS, Fan FR, Zhang W, Zhou ZY, Wu DY, Ren B, Wang ZL, Tian ZQ
NATURE 464(7287) (2010) 392-395.....394
199. Chlorofullerenes featuring triple sequentially fused pentagons
Tan YZ, Li J, Zhu F, Han X, Jiang WS, Huang RB, Zheng ZP, Qian ZZ, Chen RT, Liao ZJ, Xie SY, Lu X, Zheng LS
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NEW JOURNAL OF CHEMISTRY 34(1) (2010) 44-51.....403
201. Fabrication of uniform Ag/TiO₂ nanotube array structures with enhanced photoelectrochemical performance
Lai YK, Zhuang HF, Xie KP, Gong DG, Tang YX, Sun L, Lin CJ, Chen Z
NEW JOURNAL OF CHEMISTRY 34(7) (2010) 1335-1340.....404
202. One-pot highly efficient synthesis of substituted pyrroles and N-bridgehead pyrroles by zinc-catalyzed multicomponent reaction

- Liu XT, Hao L, Lin M, Chen L, Zhan ZP
ORGANIC & BIOMOLECULAR CHEMISTRY 8(13) (2010) 3064-3072.....405
203. Facile one-pot synthesis of three different substituted thiazoles from propargylic alcohols
Gao X, Pan YM, Lin M, Chen L, Zhan ZP
ORGANIC & BIOMOLECULAR CHEMISTRY 8(14) (2010) 3259-3266.....406
204. Enzymatic Reduction of Nitrate to Nitrite: Insight from Density Functional Calculations
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ORGANOMETALLICS 29(2) (2010) 436-441.....407
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ORGANOMETALLICS 29(13) (2010) 2904-2910.....408
206. Synthesis, Characterization, and Electrochemical Properties of Bisosmabenzene Bridged by Diisocyanides
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ORGANOMETALLICS 29(13) (2010) 2916-2925.....409
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PHOTOMEDICINE AND LASER SURGERY 28(s1) (2010) S129-S133.....410
208. Carbon-doped zigzag boron nitride nanoribbons with widely tunable electronic and magnetic properties: insight from density functional calculations
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PHYSICAL CHEMISTRY CHEMICAL PHYSICS 12(10) (2010) 2313-2320.....411
209. SERS and DFT study of water on metal cathodes of silver, gold and platinum nanoparticles
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210. High-resolution magnetic resonance spectroscopy in unstable fields via intermolecular zero-quantum coherences
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211. Fluorescence and chemiluminescence properties of indolylmaleimides: experimental and theoretical studies
Nakazono M, Jinguji A, Nanbu S, Kuwano R, Zheng ZL, Saita K, Oshikawa Y, Mikuni Y, Murakami T, Zhao Y, Sasakia S, Zaitsua K

- PHYSICAL CHEMISTRY CHEMICAL PHYSICS 12(33) (2010) 9783-9793.....414
212. In situ electrochemical monitoring of reactive oxygen and nitrogen species released by single MG63 osteosarcoma cell submitted to a mechanical stress
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PHYSICAL CHEMISTRY CHEMICAL PHYSICS 12(34) (2010) 10048-10054.....415
213. Specific reactivity of step sites towards CO adsorption and oxidation on platinum single crystals vicinal to Pt(111)
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PHYSICAL CHEMISTRY CHEMICAL PHYSICS 12(37) (2010) 11407-11416.....416
214. NC unit trapped by fullerenes: a density functional theory study on $Sc_3NC@C_{2n}$ ($2n=68, 78$ and 80)
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PHYSICAL CHEMISTRY CHEMICAL PHYSICS 12(39) (2010) 12442-12449.....417
215. Syntheses, structures, photoluminescences of silver(I) coordination polymers with 2-aminopyrazine and varied dicarboxylate ligands
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POLYHEDRON 29(4) (2010) 1243-1250.....418
216. Assembly of silver(I) coordination polymers incorporating pyromellitic acid and N-heterocyclic ligands
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POLYHEDRON 29(7) (2010) 1842-1848.....419
217. Coordination steric effect of N,N-dimethylformamide, N,N-dimethylacetamide and N-methyl-2-pyrrolidone on the assembly of coordination polymers
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POLYHEDRON 29(14) (2010) 2851-2856.....420
218. Synergetic effect of Te_2MoO_7 and MoO_3 (WO_3) oxides in the partial oxidation of propylene
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REACTION KINETICS MECHANISMS AND CATALYSIS
99(1) (2010) 149-156.....421
219. Effects of tungsten on the catalytic activity of Ni-W catalysts for the hydrogenation of aromatic hydrocarbons
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REACTION KINETICS MECHANISMS AND CATALYSIS
99(2) (2010) 371-379.....422
220. Promoting effect of water on 1-hexene hydroformylation catalyzed by

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224. Density functional theory study of 1:1 glycine-water complexes in the gas phase and in solution Ke HW, Rao L, Xu X, Yan YJ SCIENCE CHINA-CHEMISTRY 53(2) (2010) 383-395.....	428
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227. A simple solvothermal route towards the morphological control of ZnO and tuning of its optical and photocatalytic properties Jiang YQ, Li FF, Sun R, Xie ZX, Zheng LS SCIENCE CHINA-CHEMISTRY 53(8) (2010) 1711-1717.....	431
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230. Chitosan-mediated synthesis of carbon nanotube-gold nanohybrids
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231. Size and support effects for CO oxidation on supported Pd catalysts
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232. Study of pyrolyzed hemin/C as non-platinum cathodic catalyst for direct methanol fuel cells
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 SCIENCE CHINA-TECHNOLOGICAL SCIENCES 53(5) (2010)1285-1289.....437
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 SOLID STATE COMMUNICATIONS 150(13-14) (2010) 669-674.....438
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236. NMR and theoretical study on interactions between diperoxovanadate complex and pyrazole-like ligands
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 SPECTROCHIMICA ACTA PART A 75(3) (2010) 1095-1099.....440
237. Spectroscopic and theoretical study on the interaction between diperoxovanadate complexes and glycyl-histidine
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 SPECTROCHIMICA ACTA PART A 77(4) (2010) 825-831.....441
238. Photogenerated cathodic protection of flower-like, nanostructured, N-doped TiO₂ film on stainless steel
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 SURFACE & COATINGS TECHNOLOGY 205(2) (2010) 557-564.....442

239. Fabrication of Pt nanoparticles decorated PPy-MWNTs composites and their electrocatalytic activity for methanol oxidation
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240. Preparation of one-dimensional (1D) polyaniline-polypyrrole coaxial nanofibers and their application in gas sensor
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241. Chlorination for efficient identification of polycyclic aromatic hydrocarbons by liquid chromatography-mass spectrometry
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243. High-resolution two-dimensional correlation spectroscopy in inhomogeneous fields: New application of intermolecular zero-quantum coherences
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246. Basis set dependence of the doubly hybrid XYG3 functional
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 THE JOURNAL OF CHEMICAL PHYSICS 133(10) (2010) 104105.....450
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 Zeng BR, Shen TH, Wu AA, Cai SH, Yu XY, Xu X, Chen Z
 THE JOURNAL OF PHYSICAL CHEMISTRY A 114(15) (2010) 5211-5216.....451

248. Stability Rules of Main-Group Element Compounds with Planar Tetracoordinate Carbons
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249. Mechanism of Acid-Catalyzed Hydrolysis of Formamide from Cluster-Continuum Model Calculations: Concerted versus Stepwise Pathway
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250. Potential-Dependent Chemisorption of Carbon Monoxide at a Gold Core-Platinum Shell Nanoparticle Electrode: A Combined Study by Electrochemical in Situ Surface-Enhanced Raman Spectroscopy and Density Functional Theory
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255. Composites of Oxidized Boron Carbonitride Nanotubes with Polyaniline: Preparation and Conductivity Studies
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- Li RF, Wu SQ, Yang Y, Zhu ZZ
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264. Self-assembly of a Novel Three-dimensional Silver(I) Supramolecular Framework from Cationic Chains and Anionic Sheets
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ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION B 65(2) (2010) 152-156.....468

B类 其它论文

265. Spontaneous Chiral Symmetry Breaking of (Thio)semicarbazide Compounds
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ACTA CHIMICA SINICA 68(7) (2010) 703-706

266. Effects of Temperature on the Intercalation-Deintercalation Process of Lithium Ion in the Spinel LiMn_2O_4
Wei T, Zhuang QC, Wu C, Cui YL, Fang LA, Sun SG
ACTA CHIMICA SINICA 68(15) (2010) 1481-1486
267. Toxicity Study of VOSO_4 Using NMR-based Metabonomics
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ACTA CHIMICA SINICA 68(17) (2010) 1758-1764
268. Effect of NO_2^- And Cl^- On The Corrosion Behavior Of Reinforcing Steel In Simulated Concrete Pore Solutions
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ACTA METALLURGICA SINICA 46(2) (2010) 245-250
269. Surface-Enhanced Raman Spectroscopic Study on the Co-adsorption of DNA Bases with Perchlorate
Cui L, Ren B, Tian ZQ
ACTA PHYSICO-CHIMICA SINICA 26(2) (2010) 397-402
270. Electrodeposition and Electrochemical Properties of Ternary Sn-Co-Zn Alloy Electrodes as Anodes for Lithium-Ion Batteries
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ACTA PHYSICO-CHIMICA SINICA 26(3) (2010) 561-566
271. Rare Earth Eu Doped PtRu/C Catalysts and Their Properties for Methanol Electrooxidation
An XS, Chen DJ, Zhou ZY, Wang Q, Fan YJ, Sun SG
ACTA PHYSICO-CHIMICA SINICA 26(5) (2010) 1207-1213
272. Influence of Electrolyte Composition on the Intercalation-Deintercalation Process of Lithium Ion in Spinel LiMn_2O_4
Qiu XY, Zhuang QC, Wang HM, Cui YL, Fang L, Sun SG
ACTA PHYSICO-CHIMICA SINICA 26(6) (2010) 1499-1506
273. Preparation of Core-Shell SiO_2/Pt Particles *via* Layer-by-Layer Assembly and Their Electrooxidation and In-situ Electrochemical FTIR Spectra for CO
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ACTA PHYSICO-CHIMICA SINICA 26(7) (2010) 1773-1778
274. 70 Years of Crystallographic van der Waals Radii
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ACTA PHYSICO-CHIMICA SINICA 26(7) (2010) 1795-1800
275. Inclusion Resolution of 1,1'-Bi-2-naphthol: Crystal Structure and CD Spectroscopy of the Inclusion Complexes

- Zhao J, Zheng MX, Lin YJ, Chen YC, Ruan YP, Zhang H
ACTA PHYSICO-CHIMICA SINICA 26(7) (2010) 1832-1836
276. Room Temperature Synthesis of Thorn-Like Pd Nanoparticles and Their Enhanced Electrocatalytic Property for Ethanol Oxidation
Xu JX, Jiang YX, Liao HG, Chen SP, Sun SG
ACTA PHYSICO-CHIMICA SINICA 26(8) (2010) 2139-2143
277. Electrocatalytic Oxidation of Formic Acid on Pt-Se Hollow Nanosphere Modified Glassy Carbon Electrodes
Yan LL, Jiang QN, Liu DY, Zhong Y, Wen FP, Deng XC, Zhong QL, Ren B, Tian ZQ
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278. Photogenerated Cathodic Protection Properties of a TiO₂ Nanowire Film Prepared by a Hydrothermal Method
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ACTA PHYSICO-CHIMICA SINICA 26(9) (2010) 2349-2353
279. Au Nanoparticles Based Colorimetric Detection of Conformational Changes in Cytochrome c
Li N, Zhou JZ, Lin LL, Han NN, Lin ZH
ACTA PHYSICO-CHIMICA SINICA 26(9) (2010) 2468-2472
280. Electrodeposition of Copper in a Citrate Bath and Its Application to a Micro-Electro-Mechanical System
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ACTA PHYSICO-CHIMICA SINICA 26(10) (2010) 2625-2632
281. Preparation and Photoelectrochemical Performance of CdS Quantum Dot Sensitized ZnO Nanorod Array Electrodes
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ACTA PHYSICO-CHIMICA SINICA 26(11) (2010) 2927-2934
282. Purification of Multiwalled Carbon Nanotubes and Characterization of Their Oxygen-Containing Surface Groups
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283. Magnetic Properties of CoPt Nanorods with Different Structures
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ACTA PHYSICO-CHIMICA SINICA 26(12) (2010) 3360-3364
284. Preparing CNT/MnO₂ composite by direct reducing potassium permanganate
Zeng SS, Zheng MS, Dong QF
BATTERY BIMONTHLY 40(3) (2010) 121-123

285. Preparation of Solid-state Multicolor Electrochromic Devices Based on Conducting Polymers
Chen LX, Weng SH, Zhou JZ, Lin ZH
CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-Chinese 31(4) (2010) 790-795
286. Effect of Inclusion of Water Molecules Associated on Mechanism of $\text{H}_2\text{O}_2 + \text{NH}_3 \rightarrow \text{H}_2\text{O} + \text{ONH}_3$
Chang G, Wang BJ, Zhang J, Xia WS, Wan HL
CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-Chinese 31(9) (2010) 1820-1826
287. Catalytical performance for ammonia decomposition on Ru/CNTs nano-material prepared by polyol reduction-deposition method
Wu XM, Li XF, Zhang HB
CHEMICAL RESEARCH AND APPLICATION 22(2) (2010) 198-203
288. Oxidative dehydrogenation of ethane to ethene over a superbase supported LiCl system
Zhao YB, Tan WW, Li H, Jia XH, Wan HL
CHINESE CHEMICAL LETTERS 21(11) (2010) 1366-1369
289. Electrochemical Preparation of Fe Core/Pt Shell Nanoparticle Modified Glassy Carbon Electrode and Their Electrocatalytic Activities for Nitrite Reduction
Wang JY, Chen YX, Chen SP, Wang P, Sun SG
CHINESE JOURNAL OF APPLIED CHEMISTRY 27(11) (2010) 1296-1300
290. Deuterium Inverse Isotopic Effect in Ammonia Synthesis over Ru-Based and Fe-Based Catalysts
Lin JD, Liao DW, Zhang HB, Wan HL, Tsai KR
CHINESE JOURNAL OF CATALYSIS 31(2) (2010) 153-155
291. Effect of Thermal Treatment on Structure and Catalytic Performance of $\text{K}_2\text{MoO}_4\text{-NiO/SiO}_2$ Catalyst for One-Step Synthesis of Methanethiol from High H_2S -Containing Syngas
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CHINESE JOURNAL OF CATALYSIS 31(2) (2010) 242-247
292. Oxidant-Free Dehydrogenation of Alcohols over Hydrotalcite-Supported Palladium Catalysts
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CHINESE JOURNAL OF CATALYSIS 31(8) (2010) 1061-1070
293. Epoxidation of Olefins Catalyzed by Magnesium-Based Mixed Oxides with Hydrogen Peroxide
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294. The preparation and characterization of nano-Ag/HAp bioceramic coating on titanium

surface

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CHINESE JOURNAL OF ORAL IMPLANTOLOGY 15(1) (2010)14-16

295. Synthesis and characterization of CuCrO_4 as cathode material of lithium battery
Li L, Li XY, Yang Y
CHINESE JOURNAL OF POWER SOURCES 34(1) (2010) 48-50
296. $[(\text{NHC})\text{CrCl}(\mu\text{-Cl})(\text{THF})_2]_2$ and $(\text{NHC})_2\text{CrCl}_2$ (NHC=1,3-Diisopropyl-4,5-dimethylimidazole-2-ylidene) :
Syntheses, Structures, and Polymerization Activities
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CHINESE JOURNAL OF STRUCTURAL CHEMISTRY 29(6) (2010) 933-939
297. Bis(1-(4-(dimethylamino)benzylidene)-4-phenylthiosemicarbazato)palladium(II): Synthesis,
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Xu QJ, Lin LR, Sun D, Huang RB, Zheng LS
CHINESE JOURNAL OF STRUCTURAL CHEMISTRY 29(8) (2010) 1169-1174
298. Studied Corrosion Behaviors of Reinforcing Steel in Concrete by a Single-dimensional Array
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ELECTROCHEMISTRY 16(1) (2010) 60-64
299. Electrochemical Corrosion Behavior of TiO_2/HA Composite Coating on Medical Titanium in
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Kong LL, Lin LX, Hu RG, Zhang F, Lin CJ
ELECTROCHEMISTRY 16(1) (2010) 74-78
300. Electrocatalytic Oxidation of HCOOH at Au_(core)-Pd_(shell)-Pt_(cluster) Nanocubes
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301. Measurement and Wavelet Analysis of the Electrochemical Noise of Rebar Steel in Simulated
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ELECTROCHEMISTRY 16(2) (2010) 137-144
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ELECTROCHEMISTRY 16(2) (2010) 151-155
303. Preparation and Electrochemical Performance of Three-Dimensional Porous SnCo Alloy
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- Xue LJ, Huang L, Ke FS, Wei GZ, Zheng XM, Li JT, Fan XY, Sun SG
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304. A High Performance Sulfur/Carbon Xerogel Composite in Lithium Sulfur Battery Application
Wang C, Chen JJ, She QJ, Zhang Q, Shi YN, Zheng MS, Dong QF
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305. Studies of oxidation Processes of Adsorbed and Solution CO on Pt(110) Electrode by Cyclic Voltammetry and in situ FTIRS
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306. Solid State NMR Studies of Lithium Manganese Silicate as Positive Electrode Materials for Li-ion Batteries
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307. Electrochemical Surface-Enhanced Raman Spectroscopy—Current Status and Perspective
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308. Density Functional Theory Studies of Surface-Enhanced Raman Spectroscopy in Electrochemical Interfaces
Zhao LB, Wu DY, Ren B, Tian ZQ
ELECTROCHEMISTRY 16(3) (2010) 334-342
309. Mechanism and kinetics of cellobiose hydrogenation catalyzed by Ru/CNT
Tan XS, Zhuang XS, Deng WP, Zhang QH, Wang Y, Yuan ZH
Huagong Xuebao/CIESC JOURNAL 61(10) (2010) 2579-2584
310. The preparation and microstructure of CNTs/HAp biocomposite coating
Li AM, Lin CJ, Dong WF, Sun KN
JOURNAL OF FUNCTIONAL MATERIALS 9(41) (2010) 1655-1657
311. Synthesis of a new compound containing sulfur atoms and study of crystal structures
Zhong FF, Deng SL, Hao WW, Huang RB, Zheng LS
JOURNAL OF MOLECULAR SCIENCE 26(4) (2010) 246-251
312. Catalytic Properties of Ultrafine SiO₂ Supported Amphiphilic Phosphine-Rh Complex Catalysts
Peng QR, Hou SC, Zhang CR, Dai MH, Yuan YZ
JOURNAL OF PETROCHEMICAL UNIVERSITIES 23(1) (2010) 19-22

313. Efficient Conversion of Cellobiose into Sorbitol over Ru/CNTs Catalyst
Tan XS, Deng WP, Zhang QH, Wang Y
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 49(1) (2010) 1-4
314. Epoxidation of Propylene over Ag/MgO Catalysts Modified Na⁺ and Halogen Anions
Wang LL, Yang LJ, Zhang QH, Wang Y
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 49(2) (2010) 149-151
315. A Novel Co-decorated CNT-promoted CuO-ZnO-ZrO₂ Catalyst for CO₂ Hydrogenation to Methanol
Liu ZM, Lin GD, Zhang HB
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 49(3) (2010) 297-302
316. A Highly Efficient Hybrid Catalyst for "One-pot" Two-step Catalytic Synthesis of Dimethyl Ether from (CO₂+H₂) via CH₃OH
Fan JJ, Li HY, Lin GD, Zhang HB
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 49(6) (2010) 749-755
317. A Novel Process for Trivalent Chromium Plating in Sulfate Bath
Jiang YF, Yang FZ, Xu SK, Tian ZQ, Zhou SM
MATERIALS PROTECTION 43(8) (2010) 32-35
318. Preparation of Ru/CNTs Nano-material by Polyol Reduction-deposition Method and its Catalytical Performance for Ammonia Decomposition
Wu XM, Li XF, Zhang HB
NANOSCIENCE & TECHNOLOGY 7(1) (2010) 15-20
319. Preparation of Ru/CNTs Nano-material by Polyol Reduction-deposition Method and Its Catalytical Performance for Ammonia Decomposition
Wu XM, Li XF, Zhang HB
PRECIOUS METALS 31(3) (2010) 1-6
320. Methanol-Blocking Perfluorosulfonic Acid Composite Membranes in Direct Methanol Fuel Cells
Li T, Zhong GM, Yang Y
PROGRESS IN CHEMISTRY 22(2/3) (2010) 522-536
321. Diagnosis of Electrochemical Impedance Spectroscopy in Lithium Ion Batteries
Zhuang QC, Xu SD, Qiu XY, Cui YL, Fang LA, Sun SG
PROGRESS IN CHEMISTRY 22(6) (2010) 1044-1057
322. Application of Aptamers in Biomedicine
Wu CC, Hu J, Zou YA, Wang C, Liu J, Yang CY
PROGRESS IN CHEMISTRY 22(8) (2010) 1518-1530

323. Hydroformylation of 1-hexene by novel iminophosphine rhodium complexes
 Peng QR, Hou SC, Yuan YZ
 ACTA PETROLEI SINICA (PETROLEUM PROCESSING SECTION)
 26(5) (2010) 725-729
324. Study on bio-safety for Nano-Ag/HAp as anti-bacterial materials
 Zhang M, Shi GS, Lin HS, Chen ZH, Shi JL, Lin CJ
 STOMATOLOGY 30(9) (2010) 541-543
325. Application of Energy Methods to the Bonding Nature of Carbonyl Complexes
 Wang BJ, Xia WS, Zhang J, Wan HL
 UNIVERSITY CHEMISTRY 25(4) (2010) 63-66

C类 专著章节

1. Kinetics and Dynamics, from Nano- to Bio-Scale, Chapter 15: Transport Mechanism In The Escherichia Coli Ammonia Channel Amtb: A Computational Study
 Mo YR, Cao ZX, Lin YC
 Springer, Germany
 ISBN 978-90-481-3033-7, 397-429 (2010).....471
2. Nanostructured Materials for Biomedical Applications, Chapter 8: Interaction of gold nanoparticles with DNA and applications in biomedicine
 Sun LP, Zhang ZW, Zhang JF, Li H, Ren L, Weng J, Zhang QQ
 Transworld Research Network, Kerala, India
 ISBN 978-81-7895-397-7, 243-264 (2010).....469