

固体表面物理化学国家重点实验室

2017 年报论文目录

A 类 专著章节与主要研究论文

专著章节

1. “固态电化学”
杨勇
化学工业出版社
ISBN: 978-7-122-27603-2 (2017)72
2. “海洋工程材料和机构的腐蚀与防护”第 20 章: 海底隧道与沿海钢筋混凝土结构的腐蚀防护
林昌健, 董士刚
化学工业出版社
ISBN: 978-7-122-28231-6 455-485 (2017)73
3. “Metallabenzenes, An Expert View” Chapter 6: Metallabenzeneoid Compounds Bearing Phosphonium Substituents
Zhang H, Xia HP
WILEY-VCH. Eds.
ISBN: 978-3-527-33227-4 219-265 (2017)75
4. “Recent Developments in Plasmon-Supported Raman Spectroscopy” Chapter 8: Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy
Li JF, Panneerselvam R, Tian ZQ
World Scientific Publishing Europe Ltd.
ISBN: 978-1-78634-423-6 189-230 (2017)77
5. “Recent Development in Clusters of Rare Earths and Actinides: Chemistry and Materials”, Synthesis and Structures of Lanthanide-Transition Metal Clusters
Zheng XY, Kong XJ, Long LS
Springer International Publishing Switzerland
ISBN: 978-3-662-53303-1; 978-3-662-53301-7 51-96 (2017)79
6. “Studies in Surface Science and Catalysis, Volume 177: Morphological, Compositional, and Shape Control of Materials for Catalysis”, Chapter 12: Nanocrystal Catalysts of High-Energy Surface and Activity
Sheng T, Jiang YX, Tian N, Zhou ZY, Sun SG
Elsevier, Eds. Paolo Fornasiero, Matteo Cargnello
ISBN: 978-0-12-805090-3 439-468 (2017)81
7. “Advances in Electrochemical Science and Engineering, Volume 17: Nanopatterned and Nanoparticle - Modified”, Chapter 2: Electrochemically Shape-Controlled Nanoparticles
Wei L, Tian N, Zhou ZY, Sun SG
Wiley-VCH, Eds. Richard C. Alkire, Philip N. Bartlett, and Jacek Lipkowski
ISBN: 978-3-527-34092-7 59-95 (2017)83

主要研究论文

1. Prussian Blue: A Potential Material to Improve the Electrochemical Performance of Lithium-Sulfur Batteries
Peng YY, Li B, Wang YH, He XY, Huang JX, Zhao JB
ACS APPLIED MATERIALS & INTERFACES 9(5)(2017) 4397-440385
2. Polydopamine-Coated Manganese Carbonate Nanoparticles for Amplified Magnetic Resonance Imaging-Guided Photothermal Therapy
Cheng YX, Zhang SP, Kang N, Huang JP, Lv XL, Wen K, Ye SF, Chen ZW, Zhou X, Ren L
ACS APPLIED MATERIALS & INTERFACES 9(22)(2017) 19296-1930686
3. Multifunctional Triple-Decker Inverse 12-Metallacrown-4 Sandwiching Halides
Guo LY, Su HF, Kurmoo M, Wang XP, Zhao QQ, Lin SC, Tung CH, Sun D, Zheng LS
ACS APPLIED MATERIALS & INTERFACES 9(23)(2017) 19980-1998787
4. Dodecahedral W@WC Composite as Efficient Catalyst for Hydrogen Evolution and Nitrobenzene Reduction Reactions
Chen ZY, Duan LF, Sheng T, Lin X, Chen YF, Chu YQ, Sun SG, Lin WF
ACS APPLIED MATERIALS & INTERFACES 9(24)(2017) 20594-2060288
5. Layered/Spinel Heterostructured and Hierarchical Micro/Nanostructured Li-Rich Cathode Materials with Enhanced Electrochemical Properties for Li-Ion Batteries
Deng YP, Yin ZW, Wu G, Zhang SJ, Fu F, Zhang T, Li JT, Huang L, Sun SG
ACS APPLIED MATERIALS & INTERFACES 9(25)(2017) 21065-2107089
6. Activatable T_1 Relaxivity Recovery Nanoconjugates for Kinetic and Sensitive Analysis of Matrix Metalloprotease 2
Zhu XL, Lin HY, Wang LR, Tang XX, Ma LC, Chen Z, Gao JH
ACS APPLIED MATERIALS & INTERFACES 9(26)(2017) 21688-2169690
7. Integrating Target-Responsive Hydrogel with Pressuremeter Readout Enables Simple, Sensitive, User-Friendly, Quantitative Point-of-Care Testing
Liu D, Jia SS, Zhang HM, Ma YL, Guan ZC, Li JX, Zhu Z, Ji TH, Yang CJ
ACS APPLIED MATERIALS & INTERFACES 9(27)(2017) 22252-2225891
8. Origin of Structural Evolution in Capacity Degradation for Overcharged NMC622 via Operando Coupled Investigation
Wang Q, Shen CH, Shen SY, Xu YF, Shi CG, Huang L, Li JT, Sun SG
ACS APPLIED MATERIALS & INTERFACES 9(29)(2017) 24731-2474292
9. Investigation of the Reversible Intercalation/Deintercalation of Al into the Novel $\text{Li}_3\text{VO}_4@\text{C}$ Microsphere Composite Cathode Material for Aluminum-Ion Batteries
Jiang JL, Li H, Huang JX, Li K, Zeng J, Yang Y, Li JQ, Wang YH, Wang J, Zhao JB
ACS APPLIED MATERIALS & INTERFACES 9(34)(2017) 28486-2849493
10. Directly Coating a Multifunctional Interlayer on the Cathode via Electrospinning for Advanced Lithium-Sulfur Batteries
Peng YY, Zhang YY, Wang YH, Shen X, Wang F, Li H, Hwang BJ, Zhao JB
ACS APPLIED MATERIALS & INTERFACES 9(35)(2017) 29804-2981194
11. Direct Electrophoretic Deposition of Binder-Free Co_3O_4 /Graphene Sandwich-Like Hybrid Electrode as Remarkable Lithium Ion Battery Anode

- Yang Y, Huang JX, Zeng J, Xiong J, Zhao JB
ACS APPLIED MATERIALS & INTERFACES 9(38)(2017) 32801-3281195
12. Enhancing Performance and Uniformity of Perovskite Solar Cells via a Solution-Processed C₇₀ Interlayer for Interface Engineering
Zhou YQ, Wu BS, Lin GH, Li Y, Chen DC, Zhang P, Yu MY, Zhang BB, Yun DQ
ACS APPLIED MATERIALS & INTERFACES 9(39)(2017) 33810-3381896
13. Methotrexate-Camptothecin Prodrug Nanoassemblies as a Versatile NanoplatforM for Biomodal Imaging-Guided Self-Active Targeted and Synergistic Chemotherapy
Li Y, Lin JJ, Ma JY, Song L, Lin HR, Tang BW, Chen DY, Su GH, Ye SF, Zhu X
ACS APPLIED MATERIALS & INTERFACES 9(40)(2017) 34650-3466597
14. Warm-White-Light-Emitting Diode Based on a Dye-Loaded Metal-Organic Framework for Fast White-Light Communication
Wang ZY, Wang Z, Lin BJ, Hu XF, Wei YF, Zhang CK, An B, Wang C, Lin WB
ACS APPLIED MATERIALS & INTERFACES 9(40)(2017) 35253-3525998
15. Programmed Nanococktail Based on pH-Responsive Function Switch for Self-Synergistic Tumor-Targeting Therapy
Li Y, Song L, Lin JY, Ma JY, Pan Z, Zhang YY, Su GH, Ye SF, Luo FH, Zhu X
ACS APPLIED MATERIALS & INTERFACES 9(45)(2017) 39127-3914299
16. Platinum-Cobalt Bimetallic Nanoparticles with Pt Skin for Electro-Oxidation of Ethanol
Zhang BW, Sheng T, Wang YX, Qu XM, Zhang JM,
Zhang ZC, Liao HG, Zhu FC, Dou SX, Jiang YX
ACS CATALYSIS 7(1)(2017) 892-895 100
17. Key Role of Anionic Doping for H₂ Production from Formic Acid on Pd(111)
Wang P, Steinmann SN, Fu G, Michel C, Sautet P
ACS CATALYSIS 7(3)(2017) 1955-1959 101
18. Electrocatalysis of Ethylene Glycol Oxidation on Bare and BiModified Pd Concave Nanocubes in Alkaline Solution: An Interfacial Infrared Spectroscopic Investigation
Wang H, Jiang B, Zhao TT, Jiang K, Yang YY, Zhang JW, Xie ZX, Cai WB
ACS CATALYSIS 7(3)(2017) 2033-2041 102
19. TEMPO-Catalyzed Electrochemical C-H Thiolation: Synthesis of Benzothiazoles and Thiazolopyridines from Thioamides
Qian XY, Li SQ, Song JS, Xu HC
ACS CATALYSIS 7(4)(2017) 2730-2734 103
20. Reversal of Regioselectivity in Catalytic Arene-Ynamide Cyclization: Direct Synthesis of Valuable Azepino 4,5-b indoles and β -Carbolines and DFT Calculations
Li L, Chen XM, Wang ZS, Zhou B, Liu X, Lu X, Ye LW
ACS CATALYSIS 7(6)(2017) 4004-4010 104
21. How High Valence Transition Metal Spreads Its Activity over Nonmetal Oxoos: A Proof-of-Concept Study
Wang P, Fu G, Wan HL
ACS CATALYSIS 7(8)(2017) 5544-5548 105
22. Electrochemical Synthesis of Polycyclic N-Heteroaromatics through Cascade Radical Cyclization of Diynes
Hou ZW, Mao ZY, Song J, Xu HC

ACS CATALYSIS	7(9)(2017)	5810-5813	106
23. Soldering of Iron Catalysts for Direct Synthesis of Light Olefins from Syngas under Mild Reaction Conditions			
Ordonsky VV, Luo Y, Gu B, Carvalho A, Chernavskii PA, Cheng K, Khodakov AY			
ACS CATALYSIS	7(10)(2017)	6445-6452	107
24. Selective Surface Engineering of Heterogeneous Nanostructures: In Situ Unraveling of the Catalytic Mechanism on Pt Au Catalyst			
Kong FP, Du CY, Ye JY, Chen GY, Du L, Yin GP			
ACS CATALYSIS	7(11)(2017)	7923-7929	108
25. Constructing a Triple-Phase Interface in Micropores to Boost Performance of Fe/N/C Catalysts for Direct Methanol Fuel Cells			
Wang YC, Huang L, Zhang P, Qiu YT, Sheng T, Zhou ZY, Wang G, Liu JG, Rauf M, Gu ZQ			
ACS ENERGY LETTERS	2(3)(2017)	645-650	109
26. Designing Pt-Based Electrocatalysts with High Surface Energy			
Sheng T, Tian N, Zhou ZY, Lin WF, Sung SG			
ACS ENERGY LETTERS	2(8)(2017)	1892-1900	110
27. Arbitrary-Shaped Graphene-Based Planar Sandwich Supercapacitors on One Substrate with Enhanced Flexibility and Integration			
Zheng SH, Tang XY, Wu ZS, Tan YZ, Wang S, Sun CL, Cheng HM, Bao XH			
ACS NANO	11(2)(2017)	2171-2179	111
28. Co ₄ N Nanosheet Assembled Mesoporous Sphere as a Matrix for Ultrahigh Sulfur Content Lithium-Sulfur Batteries			
Deng DR, Xue F, Jia YJ, Ye JC, Bai CD, Zheng MS, Dong QF			
ACS NANO	11(6)(2017)	6031-6039	112
29. A Honeycomb-like Co@N-C Composite for Ultrahigh Sulfur Loading Li-S Batteries			
Li YJ, Fang JM, Zhang JH, Yang JF, Yuan RM, Chang JK, Zheng MS, Dong QF			
ACS NANO	11(11)(2017)	11417-11424	113
30. Imaging Lysosomal pH Alteration in Stressed Cells with a Sensitive Ratiometric Fluorescence Sensor			
Xue ZW, Zhao H, Liu J, Han JH, Han SF			
ACS SENSORS	2(3)(2017)	436-442	114
31. Electrolyte Optimization for Enhancing Electrochemical Performance of Antimony Sulfide/Graphene Anodes for Sodium-Ion Batteries-Carbonate-Based and Ionic Liquid Electrolytes			
Li CY, Patra J, Yang CH, Tseng CM, Majumder SB, Dong QF, Chang JK			
ACS SUSTAINABLE CHEMISTRY & ENGINEERING	5(9)(2017)	8269-8276	115
32. Effect of Construction of TiO ₂ Nanotubes on Platelet Behaviors: Structure-Property Relationships			
Huang QL, Yang Y, Zheng DJ, Song R, Zhang YM, Jiang PL, Vogler EA, Lin CJ			
ACTA BIOMATERIALIA	51(2017)	505-512	116
33. Water Soluble Binder, an Electrochemical Performance Booster for Electrode Materials with High Energy Density			
Li JT, Wu ZY, Lu YQ, Zhou Y, Huang QS, Huang L, Sun SG			

ADVANCED ENERGY MATERIALS	7(24)(2017)	1701185	.....	117
34. In Situ Fabrication of Highly Luminescent Bifunctional Amino Acid Crosslinked 2D/3D NH ₃ C ₄ H ₉ COO(CH ₃ NH ₃ PbBr ₃) _n Perovskite Films Zhang TY, Xie LQ, Chen L, Guo NJ, Li G, Tian ZQ, Mao BW, Zhao YX	ADVANCED FUNCTIONAL MATERIALS	27(1)(2017)	1603568	..... 118
35. Activated Surface Charge-Reversal Manganese Oxide Nanocubes with High Surface-to-Volume Ratio for Accurate Magnetic Resonance Tumor Imaging Lei M, Fu C, Cheng X, Fu B, Wu NN, Zhang Q, Fu AL, Cheng JL, Gao JH, Zhao ZH	ADVANCED FUNCTIONAL MATERIALS	27(30)(2017)	1700978	..... 119
36. Networking Pyrolyzed Zeolitic Imidazolate Frameworks by Carbon Nanotubes Improves Conductivity and Enhances Oxygen-Reduction Performance in Polymer-Electrolyte-Membrane Fuel Cells Zhang C, Wang YC, An B, Huang RY, Wang C, Zhou ZY, Lin WB	ADVANCED MATERIALS	29(4)(2017)	1604556	..... 120
37. Tumor Microenvironment-Triggered Supramolecular System as an In Situ Nanotheranostic Generator for Cancer Phototherapy Chu CC, Lin HR, Liu H, Wang XY, Wang JQ, Zhang PF, Gao HY, Huang C, Zeng Y, Tan YZ	ADVANCED MATERIALS	29(23)(2017)	1605928	..... 121
38. Synthetic Control of Kinetic Reaction Pathway and Cationic Ordering in High-Ni Layered Oxide Cathodes Wang DW, Kou RH, Ren Y, Sun CJ, Zhao H, Zhang MJ, Li Y, Huq A, Ko JYP, Pan F	ADVANCED MATERIALS	29(39)(2017)	1606715	..... 122
39. Robust Catalysis on 2D Materials Encapsulating Metals: Concept, Application, and Perspective Deng J, Deng DH, Bao XH	ADVANCED MATERIALS	29(43)(2017)	1606967	..... 123
40. Giant Room-Temperature Magnetodielectric Response in a MOF at 0.1 Tesla Chen LH, Guo JB, Wang X, Dong XW, Zhao HX, Long LS, Zheng LS	ADVANCED MATERIALS	29(43)(2017)	1702512	..... 124
41. Simultaneous Exfoliation and Modification of Graphitic Carbon Nitride Nanosheets Song XH, Feng L, Deng SL, Xie SY, Zheng LS	ADVANCED MATERIALS INTERFACES	4(15)(2017)	1700339	..... 125
42. Improving Efficiency and Stability of Perovskite Solar Cells by Modifying Mesoporous TiO ₂ -Perovskite Interfaces with Both Aminocaproic and Caproic acids Chen RH, Cao J, Wu YYQ, Jing XJ, Wu BH, Zheng NF	ADVANCED MATERIALS INTERFACES	4(23)(2017)	1700897	..... 126
43. Synthesis of Ag Nanorods with Highly Tunable Plasmonics toward Optimal Surface-Enhanced Raman Scattering Substrates Self-Assembled at Interfaces Tian XD, Lin Y, Dong JC, Zhang YJ, Wu SR, Liu SY, Zhang Y, Li JF, Tian ZQ	ADVANCED OPTICAL MATERIALS	5(21)(2017)	1700581	..... 127
44. A novel In Situ Electrochemical NMR Cell with a Palisade Gold Film Electrode Ni ZR, Cui XH, Cao SH, Chen Z	AIP ADVANCES	7(8)(2017)	085205	..... 128

45. Tunable Accessibility of Dye-Doped Liposomes towards Gold Nanoparticles for Fluorescence Sensing of Lipopolysaccharide
Gao JH, Li ZR, Zhang O, Wu CL, Zhao YB
ANALYST 142(7)(2017) 1084-1090 129
46. Ultrathin Polydopamine Film Coated Gold Nanoparticles: A Sensitive, Uniform, and Stable SHINERS Substrate for Detection of Benzotriazole
Ye WC, Huang H, Yang WW, Wang X, Ren CL, Hu QS, Li YM, Ren B
ANALYST 142(18)(2017) 3459-3467 130
47. A Lysosome-Locating and Acidic pH-Activatable Fluorescent Probe for Visualizing Endogenous H₂O₂ in Lysosomes
Liu J, Zhou SQ, Ren J, Wu CL, Zhao YB
ANALYST 142(23)(2017) 4522-4528 131
48. Thioether-Bonded Fluorescent Probes for Deciphering Thiol-Mediated Exchange Reactions on the Cell Surface
Gao W, Li T, Wang JH, Zhao YB, Wu CL
ANALYTICAL CHEMISTRY 89(1)(2017) 937-944 132
49. In Situ Monitoring Potential-Dependent Electrochemical Process by Liquid NMR Spectroelectrochemical Determination: A Proof-of-Concept Study
Cao SH, Ni ZR, Huang L, Sun HJ, Tang B, Lin LJ, Huang YQ, Zhou ZY, Sun SG, Chen Z
ANALYTICAL CHEMISTRY 89(7)(2017) 3810-3813 133
50. Ultrahigh-Resolution NMR Spectroscopy for Rapid Chemical and Biological Applications in Inhomogeneous Magnetic Fields
Huang YQ, Cao SH, Yang Y, Cai SH, Zhan HL, Tan CH, Lin LJ, Zhang ZY, Chen Z
ANALYTICAL CHEMISTRY 89(13)(2017) 7115-7122 134
51. Defining Cancer Cell Bioenergetic Profiles Using a Dual Organelle-Oriented Chemosensor Responsive to pH Values and Electropotential Changes
Xue ZW, Zhao H, Liu J, Han JH, Han SF
ANALYTICAL CHEMISTRY 89(14)(2017) 7795-7801 135
52. Point-of-Care Assay of Telomerase Activity at Single-Cell Level via Gas Pressure Readout
Wang YJ, Yang LZ, Li BX, Yang CJ, Jin Y
ANALYTICAL CHEMISTRY 89(16)(2017) 8311-8318 136
53. General Two-Dimensional Absorption-Mode J-Resolved NMR Spectroscopy
Huang YQ, Yang Y, Cai SH, Chen ZW, Zhan HL, Li C, Tan CH, Chen Z
ANALYTICAL CHEMISTRY 89(23)(2017) 12646-12651 137
54. A Stable Neutral Radical in the Coordination Sphere of Aluminum
Li B, Kundu S, Stuckl AC, Zhu HP, Keil H, Herbst-Irmer R, Stalke D, Schwederski B, Kaim W, Andrada DM
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(1)(2017) 397-400 138
55. Amidinyl Radical Formation through Anodic N-H Bond Cleavage and Its Application in Aromatic C-H Bond Functionalization
Zhao HB, Hou ZW, Liu ZJ, Zhou ZF, Song JS, Xu HC
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(2)(2017) 587-590 139

56. Highly Site Selective Formal [5+2] and [4+2] Annulations of Isoxazoles with Heterosubstituted Alkynes by Platinum Catalysis: Rapid Access to Functionalized 1,3-Oxazepines and 2,5-Dihydropyridines
Shen WB, Xiao XY, Sun Q, Zhou B, Zhu XQ, Yan JZ, Lu X, Ye LW
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(2)(2017) 605-609140
57. Mononuclear Clusterfullerene Single-Molecule Magnet Containing Strained Fused-Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster
Liu FP, Wang S, Gao CL, Deng QM, Zhu XJ, Kostanyan A, Westerstrom R, Jin F, Xie SY, Popov AA
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(7)(2017) 1830-1834141
58. A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State
Ma J, Liu JZ, Baumgarten M, Fu YB, Tan YZ, Schellhammer KS, Ortmann F, Cuniberti G, Komber H, Berger R
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(12)(2017) 3280-3284142
59. Yttrium-Catalyzed Intramolecular Hydroalkoxylation/Claisen Rearrangement Sequence: Efficient Synthesis of Medium-Sized Lactams
Zhou B, Li L, Zhu XQ, Yan JZ, Guo YL, Ye LW
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(14)(2017) 4015-4019143
60. An Electrophilic Carbene-Anchored Silylene-Phosphinidene
Kundu S, Li B, Kretsch J, Herbst-Irmer R, Andrada DM, Frenking G, Stalke D, Roesky HW
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(15)(2017) 4219-4223144
61. Precisely Regulated and Efficient Locking of Linear Peptides into Stable Multicyclic Topologies through a One-Pot Reaction
Liu WD, Zheng YW, Kong XD, Heinis C, Zhao YB, Wu CL
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(16)(2017) 4458-4463145
62. Synthesis of C3-Fluorinated Oxindoles through Reagent-Free Cross-Dehydrogenative Coupling
Wu ZJ, Xu HC
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(17)(2017) 4734-4738146
63. The Formation of Surface Lithium-Iron Ternary Hydride and its Function on Catalytic Ammonia Synthesis at Low Temperatures
Wang PK, Xie H, Guo JP, Zhao Z, Kong XT, Gao WB, Chang F, He T, Wu GT, Chen MS
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(30)(2017) 8716-8720147
64. Synthesis and Characterization of a Metallacyclic Framework with Three Fused Five-membered Rings
Zhu CQ, Wu JJ, Li SY, Yang YH, Zhu J, Lu X, Xia HP
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(31)(2017) 9067-9071148
65. A Stretchable Electrochemical Sensor for Inducing and Monitoring Cell Mechanotransduction in Real Time
Liu YL, Qin Y, Jin ZH, Hu XB, Chen MM, Liu R, Amatore C, Huang WH
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(32)(2017) 9454-9458149
66. Isolation, Detection, and Antigen-Based Profiling of Circulating Tumor Cells Using a Size-Dictated Immunocapture Chip
Ahmed MG, Abate MF, Song YL, Zhu Z, Yan F, Xu Y, Wang XM, Li QB, Yang CY
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(36)(2017) 10681-10685 ..150

67. Insights into Magnetic Interactions in a Monodisperse Gd₁₂Fe₁₄ Metal Cluster
Zheng XY, Zhang H, Wang ZX, Liu PX, Du MH,
Han YZ, Wei RJ, Ouyang ZW, Kong XJ, Zhuang GL
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(38)(2017) 11475-11479 ..151
68. Reagent-Free C-H/N-H Cross-Coupling: Regioselective Synthesis of N-Heteroaromatics from Biaryl Aldehydes and NH₃
Zhao HB, Liu ZJ, Song JS, Xu HC
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(41)(2017) 12732-12735 ..152
69. Real-Time Intracellular Measurements of ROS and RNS in Living Cells with Single Core-Shell Nanowire Electrodes
Zhang XW, Qiu QF, Jiang H, Zhang FL, Liu YL, Amatore C, Huang WH
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(42)(2017) 12997-13000 ..153
70. Radical-Enhanced Charge Transport in Single-Molecule Phenothiazine Electrical Junctions
Liu JY, Zhao XT, Al-Galiby Q, Huang XY, Zheng JT,
Li RH, Huang CC, Yang Y, Shi J, Manrique DZ
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(42)(2017) 13061-13065 ..154
71. Semiconductive Copper(I)-Organic Frameworks for Efficient Light-Driven Hydrogen Generation Without Additional Photosensitizers and Cocatalysts
Shi DY, Zheng R, Sun MJ, Cao XR, Sun CX, Cui CJ, Liu CS, Zhao JW, Du M
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(46)(2017) 14637-14641 ..155
72. Microporous Cyclic Titanium-Oxo Clusters with Labile Surface Ligands
Zhao CW, Han YZ, Dai SQ, Chen XM, Yan JZ, Zhang WJ, Su HF, Lin SC, Tang ZC, Teo BK
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 56(51)(2017) 16252-16256 ..156
73. Product Tunable Behavior of Carbon Nanotubes-Supported Ni-Fe Catalysts for Guaiacol Hydrodeoxygenation
Fang HH, Zheng JW, Luo XL, Du JM, Roldan A, Leoni S, Yuan YZ
APPLIED CATALYSIS A-GENERAL 529(2017) 20-31157
74. Hydrogenation of Methyl Acetate to Ethanol over a Highly Stable Cu/SiO₂ Catalyst: Reaction Mechanism and Structural Evolution
Huang XM, Ma M, Miao S, Zheng YP, Chen MS, Shen WJ
APPLIED CATALYSIS A-GENERAL 531(2017) 79-88158
75. Bio-Inspired Assembly of Cubane-Adjustable Polyoxometalate-Based High-Nuclear Nickel Clusters for Visible Light-Driven Hydrogen Evolution
Han XB, Qin C, Wang XL, Tan YZ, Zhao XJ, Wang EB
APPLIED CATALYSIS B-ENVIRONMENTAL 211(2017) 349-356159
76. Smart Tuning of 3D Ordered Electrocatalysts for Enhanced Oxygen Reduction reaction
Sun YF, Zhang YQ, Yang YL, Chen J, Hua B, Shi YX, Wang CA, Luo JL
APPLIED CATALYSIS B-ENVIRONMENTAL 219(2017) 640-644160
77. An Insight into the Magnetoelectric Coupling Effect in the MOF of [NH₂(CH₃)₂]_n [Fe^{III} Fe^{II} (HCOO)₆]_n
Guo JB, Chen LH, Li D, Zhao HX, Dong XW, Long LS, Huang RB, Zheng LS
APPLIED PHYSICS LETTERS 110(19)(2017) 192902161
78. Competitive Excitation and Osmotic-Pressure-Mediated Control of Lasing Modes in Cholesteric Liquid Crystal Microshells

	Lin YL, Gong LL, Che KJ, Li SS, Chu CX, Cai ZP, Yang CJ, Chen LJ APPLIED PHYSICS LETTERS 110(22)(2017) 223301	162
79.	Design and In Vitro Evaluation of Self-Assembled Indometacin Prodrug Nanoparticles for Sustained/Controlled Release and Reduced Normal Cell Toxicity Lin JY, Pan Z, Song L, Zhang YM, Li Y, Hou ZQ, Lin CJ APPLIED SURFACE SCIENCE 425(2017) 674-681	163
80.	Proteolytic Unlocking of Ultrastable Twin-Acylhydrazone Linkers for Lysosomal Acid-Triggered Release of Anticancer Drugs Zheng YW, Ren J, Wu YQ, Meng XT, Zhao YB, Wu CL BIOCONJUGATE CHEMISTRY 28(10)(2017) 2620-2626	164
81.	The Biodistribution, Excretion and Potential Toxicity of Different-Sized Pd Nanosheets in Mice Following Oral and Intraperitoneal Administration Chen XL, Li JC, Huang YZ, Wei JP, Sun D, Zheng NF BIOMATERIALS SCIENCE 5(12)(2017) 2448-2455	165
82.	miR-296 Inhibits the Metastasis and Epithelial-Mesenchymal Transition of Colorectal Cancer by Targeting S100A4 He Z, Yu LH, Luo SY, Li MZ, Li JB, Li Q, Sun Y, Wang CB BMC CANCER 17(2017) 140	166
83.	Preparation of Monodispersed Sulfur Nanoparticles-Partly Reduced Graphene Oxide-Polydopamine Composite for Superior Performance Lithium-Sulfur Battery Zhang YY, Li K, Huang JX, Wang YH, Peng YY, Li H, Wang J, Zhao JB CARBON 114(2017) 8-14	167
84.	An Ion-Migration and Electron-Transfer Cycle Containing Graphene and Copper Substrate Analyzed with Raman Spectra Lin WY, Zhuang PP, Tian B, Liu T, Zhang CK, Shih TM, Cai WW CARBON 116(2017) 15-19	168
85.	Nitrogen and Oxygen Dual-Doped Hollow Carbon Nanospheres Derived from Catechol/Polyamine as Sulfur Hosts for Advanced Lithium Sulfur Batteries Peng YY, Zhang YY, Huang JX, Wang YH, Li H, Hwang BJ, Zhao JB CARBON 124(2017) 23-33	169
86.	Nitrogen-Doped Carbon Nanotubes with Encapsulated Fe Nanoparticles as Efficient Oxygen Reduction Catalyst for Alkaline Membrane Direct Ethanol Fuel Cells Rauf M, Chen RR, Wang Q, Wang YC, Zhou ZY CARBON 125(2017) 605-613	170
87.	Attapulgit as Natural Catalyst for Glucose Isomerization to Fructose in Water Li B, Li LW, Zhang Q, Weng WZ, Wan HL CATALYSIS COMMUNICATIONS 99(2017) 20-24	171
88.	Effective Anchoring of Silver Nanoparticles onto N-Doped Carbon with Enhanced Catalytic Performance for the Hydrogenation of Dimethyl Oxalate to Methyl Glycolate Hu ML, Yan Y, Duan XP, Ye LM, Zhou JF, Lin HQ, Yuan YZ CATALYSIS COMMUNICATIONS 100(2017) 148-152	172
89.	Photocatalytic Coupling of Formaldehyde to Ethylene Glycol and Glycolaldehyde over Bismuth Vanadate with Controllable Facets and Cocatalysts Xie SJ, Shen ZB, Zhang HM, Cheng J, Zhang QH, Wang Y	

CATALYSIS SCIENCE & TECHNOLOGY	7(4)(2017) 923-933	173
90. Building Premium Secondary Reaction Field with a Miniaturized Capsule Catalyst to Realize Efficient Synthesis of a Liquid Fuel Directly from Syngas Yamane N, Wang Y, Li J, He YL, Zhang PP, Nguyen L, Tan L, Ai PP, Peng XB, Wang Y	CATALYSIS SCIENCE & TECHNOLOGY 7(10)(2017) 1996-2000	174
91. Impact of Hierarchical Pore Structure on the Catalytic Performances of MFI Zeolites Modified by ZnO for the Conversion of Methanol to Aromatics Shen XQ, Kang JC, Niu W, Wang MH, Zhang QH, Wang Y	CATALYSIS SCIENCE & TECHNOLOGY 7(16)(2017) 3598-3612	175
92. Shaping the Selectivity in Heterogeneous Hydrogenation by Using Molecular Modification Strategies: Experiment and Theory Zhao Y, Fu G, Zheng NF	CATALYSIS TODAY 279(2017) 36-44	176
93. Selective Formation of C ₂ Products from the Electrochemical Conversion of CO ₂ on CuO-Derived Copper Electrodes Comprised of Nanoporous Ribbon Arrays Ke FS, Liu XC, Wu JJ, Sharma PP, Zhou ZY, Qiao J, Zhou XD	CATALYSIS TODAY 288(2017) 18-23	177
94. Improved H ₂ Production by Ethanol Steam Reforming over Sc ₂ O ₃ -Doped Co-ZnO Catalysts Liang XL, Shi XP, Zhang FF, Li YY, Zhang HB, Yuan YZ	CATALYSTS 7(8)(2017) 241	178
95. In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis Hu CY, Ma QY, Hung SF, Chen ZN, Ou DH, Ren B, Chen HM, Fu G, Zheng NF	CHEM 3(1)(2017) 122-133	179
96. Bifunctional Catalysts for One-Step Conversion of Syngas into Aromatics with Excellent Selectivity and Stability Cheng K, Zhou W, Kang JC, He S, Shi SL, Zhang QH, Pan Y, Wen W, Wang Y	CHEM 3(2)(2017) 334-347	181
97. Facile Synthesis of Pd@Pt _{3-4L} Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction Bao SX, Vara M, Yang X, Zhou S, Figueroa-Cosme L, Park J, Luo M, Xie ZX, Xia YN	CHEMCATCHEM 9(3)(2017) 414-419	183
98. Promoting Effect of Bismuth Oxide on Palladium for Low-Temperature Carbon Monoxide Oxidation Ma DD, Ding D, Huang JJ, Zhang H, Zheng YP, Chen MS, Wan HL	CHEMCATCHEM 9(3)(2017) 499-504	184
99. A Highly Porous Carbon Support Rich in Graphitic-N Stabilizes Copper Nanocatalysts for Efficient Ethanol Dehydrogenation Zhang P, Wang QN, Yang X, Wang DQ, Li WC, Zheng YP, Chen MS, Lu AH	CHEMCATCHEM 9(3)(2017) 505-510	185
100. Electrophoretic Deposition of MnO _x @Carbon Nanotubes Film with Nest-Like Structure as High-Performance Anode for Lithium-Ion Batteries Li JQ, Yang Y, Wang J, Zhang P, Zhao JB	CHEMELECTROCHEM 4(3)(2017) 679-685	186

101. Rational Method for Improving the Performance of Lithium-Sulfur Batteries: Coating the Separator with Lithium Fluoride
Li C, Zhang P, Dai JH, Shen X, Peng YY, Zhang YY, Zhao JB
CHEMELECTROCHEM 4(6)(2017) 1535-1543 187
102. Novel Single Lithium-Ion Conducting Polymer Electrolyte Based on Poly(hexafluorobutyl methacrylate-co-lithium allyl sulfonate) for Lithium-Ion Batteries
Ji PY, Fang J, Zhang YY, Zhang P, Zhao JB
CHEMELECTROCHEM 4(9)(2017) 2352-2358 188
103. An Open Route to Asymmetric Substituted Al-Al Bonds Using Al(I)- and Al(III)-Precursors
Li B, Kundu S, Zhu HP, Keil H, Herbst-Irmer R, Stalke D, Frenking G, Andrada DM, Roesky HW
CHEMICAL COMMUNICATIONS 53(17)(2017) 2543-2546 189
104. Electrochemical Reduction of CO₂ into CO on Cu(100): A New Insight into the C-O Bond Breaking Mechanism
Sheng T, Sun SG
CHEMICAL COMMUNICATIONS 53(17)(2017) 2594-2597 190
105. Shape Transformation of {hk0}-Faceted Pt Nanocrystals from a Tetrahedron into a Truncated Ditetragonal Prism
Du JH, Sheng T, Xiao C, Tian N, Xiao J, Xie AY, Liu S, Zhou ZY, Sun SG
CHEMICAL COMMUNICATIONS 53(22)(2017) 3236-3238 191
106. A portable Visual Detection Method Based on a Target-Responsive DNA Hydrogel and Color Change of Gold Nanorods
Mao Y, Li JX, Yan JM, Ma YL, Song YL, Tian T, Liu X, Zhu Z, Zhou LJ, Yang CY
CHEMICAL COMMUNICATIONS 53(47)(2017) 6375-6378 192
107. Observing the Dynamic "Hot Spots" on Two-Dimensional Au Nanoparticles Monolayer Film
Zhang CJ, You EM, Jin Q, Yuan YX, Xu MM, Ding SY, Yao JL, Tian ZQ
CHEMICAL COMMUNICATIONS 53(50)(2017) 6788-6791 193
108. Dual Gold/Photoredox-Catalyzed Bis-Arylative Cyclization of Chiral Homopropargyl Sulfonamides with Diazonium Salts: Rapid Access to Enantioenriched 2,3-Dihydropyrroles
Wang ZS, Tan TD, Wang CM, Yuan DQ, Zhang T, Zhu PF, Zhu CY, Zhou JM, Ye LW
CHEMICAL COMMUNICATIONS 53(51)(2017) 6848-6851 194
109. Copper Nanoparticles Socketed In Situ into Copper Phyllosilicate Nanotubes with Enhanced Performance for Chemoselective Hydrogenation of Esters
Gong XX, Wang ML, Fang HH, Qian XQ, Ye LM, Duan XP, Yuan YZ
CHEMICAL COMMUNICATIONS 53(51)(2017) 6933-6936 195
110. Cu Overlayers on Tetrahedral Pd Nanocrystals with High-Index Facets for CO₂ Electroreduction to Alcohols
Zhang FY, Sheng T, Tian N, Liu L, Xiao C, Lu BA, Xu BB, Zhou ZY, Sun SG
CHEMICAL COMMUNICATIONS 53(57)(2017) 8085-8088 196
111. Nanoscale Chemical Imaging of the Additive Effects on the Interfaces of High-voltage LiCoO₂ Composite Electrodes
Wang J, Ji YJ, Appathurai N, Zhou JG, Yang Y
CHEMICAL COMMUNICATIONS 53(61)(2017) 8581-8584 197

112. Interconversion of Molecular Face-Rotating Polyhedra through Turning Inside out
Wang Y, Fang HX, Zhang W, Zhuang YB, Tian ZQ, Cao XY
CHEMICAL COMMUNICATIONS 53(64)(2017) 8956-8959 198
113. Through-Space Forster-Type Energy Transfer in Isostructural Zirconium and Hafnium-Based
Metal-Organic Layers
Wang Z, Liu YX, Wang ZY, Cao LY, Zhao Y, Wang C, Lin WB
CHEMICAL COMMUNICATIONS 53(67)(2017) 9356-9359 199
114. Regioselective Hydrogenolysis of Aryl Ether C-O Bonds by Tungsten Carbides with Controlled
Phase Compositions
Fang HH, Du JM, Tian CC, Zheng JW, Duan XP, Ye LM, Yuan YZ
CHEMICAL COMMUNICATIONS 53(74)(2017) 10295-10298 200
115. A Theoretical Study of Molecular Structure, Optical Properties and Bond Activation of
Energetic Compound FOX-7 under Intense Electric Fields
Tao ZQ, Wang X, Wei Y, Lv L, Wu DY, Yang ML
CHEMICAL PHYSICS 483(2017) 122-131 201
116. Acid-Induced Crystallinity Enhancement of Graphite-Like $C_3N_{3+x}H_y$ Synthesized through a
Facile One-Pot Approach
Yin H, Guo QX, He DZ, Li JT, Sun SG
CHEMICAL PHYSICS LETTERS 669(2017) 22-28 202
117. Construction of Ultra-Coarse-Grained Model of Protein with a Gō-like Potential
Zhang YW, Cao ZX, Xia F
CHEMICAL PHYSICS LETTERS 681(2017) 1-6 203
118. Free Energy Landscape of Electrocatalytic CO_2 Reduction to CO on Aqueous FeN_4 Center
Embedded Graphene Studied by Ab Initio Molecular Dynamics Simulations
Sheng T, Sun SG
CHEMICAL PHYSICS LETTERS 688(2017) 37-42 204
119. Enrichment and Single-Cell Analysis of Circulating Tumor Cells
Song YL, Tian T, Shi YZ, Liu WL, Zou Y, Khajvand T, Wang SL, Zhu Z, Yang CY
CHEMICAL SCIENCE 8(3)(2017) 1736-1751 205
120. Responsive Hetero-Organellar Partition Conferred Fluorogenic Sensing of Mitochondrial
Depolarization
Xue ZW, Zhao H, Liu J, Han JH, Han SF
CHEMICAL SCIENCE 8(3)(2017) 1915-1921 206
121. Contact Electrification Induced Interfacial Reactions and Direct Electrochemical Nanoimprint
Lithography in n-type Gallium Arsenate Wafer
Zhang J, Zhang L, Wang W, Han LH, Jia JC, Tian ZW, Tian ZQ, Zhan DP
CHEMICAL SCIENCE 8(3)(2017) 2407-2412 207
122. Advanced Electroanalytical Chemistry at Nanoelectrodes
Ying YL, Ding ZF, Zhan DP, Long YT
CHEMICAL SCIENCE 8(5)(2017) 3338-3348 208
123. Electrochemical Control of the Single Molecule Conductance of a Conjugated
bis(pyrrolo)Tetrathiafulvalene Based Molecular Switch
O'Driscoll LJ, Hamill JM, Grace I, Nielsen BW,
Almutib E, Fu YC, Hong WJ, Lambert CJ, Jeppesen JO

CHEMICAL SCIENCE	8(9)(2017) 6123-6130	209
124. Design, Crystal Structure and Atomic Force Microscopy Study of Thioether Ligated D, L-Cyclic Antimicrobial Peptides against Multidrug Resistant Pseudomonas Aeruginosa	He RZ, Bonaventura I, Visini R, Gan BH, Fu YC, Probst D, Uscher AL, Ohler TK, Van C, A Delden	
CHEMICAL SCIENCE	8(11)(2017) 7464-7475	210
125. Protonation Tuning of Quantum Interference in Azulene-Type Single-Molecule Junctions	Yang GG, Sangtarash S, Liu ZT, Li XH, Sadeghi H, Tan ZB, Li RH, Zheng JT, Dong XB, Liu JY	
CHEMICAL SCIENCE	8(11)(2017) 7505-7509	211
126. Electrochemical Micro/Nano-Machining: Principles and Practices	Zhan DP, Han LH, Zhang J, He QF, Tian ZW, Tian ZQ	
CHEMICAL SOCIETY REVIEWS	46(5)(2017) 1526-1544	212
127. SERS - Facts, Figures and the Future	Graham D, Moskovits M, Tian ZQ	
CHEMICAL SOCIETY REVIEWS	46(13)(2017) 3864-3865	213
128. Tip-enhanced Raman Spectroscopy for Surfaces and Interfaces	Wang X, Huang SC, Huang TX, Su HS, Zhong JH, Zeng ZC, Li MH, Ren B	
CHEMICAL SOCIETY REVIEWS	46(13)(2017) 4020-4041	214
129. Electromagnetic Theories of Surface-Enhanced Raman Spectroscopy	Ding SY, You EM, Tian ZQ, Moskovits M	
CHEMICAL SOCIETY REVIEWS	46(13)(2017) 4042-4076	215
130. Composition Tunable Manganese Ferrite Nanoparticles for Optimized T_2 Contrast Ability	Yang LJ, Ma LC, Xin JY, Li A, Sun CJ, Wei RX, Ren BW, Chen Z, Lin HY, Gao JH	
CHEMISTRY OF MATERIALS	29(7)(2017) 3038-3047	216
131. Anion-Templated Nanosized Silver Alkynyl Clusters: Cluster Engineering and Solution Behavior	Zhang SS, Su HF, Wang Z, Wang L, Zhao QQ, Tung CH, Sun D, Zheng LS	
CHEMISTRY-A EUROPEAN JOURNAL	23(14)(2017) 3432-3437	217
132. Metallapentalenofurans and Lactone-Fused Metallapentalynes	Lu ZY, Zhu CQ, Cai YT, Zhu J, Hua YH, Chen ZX, Chen JX, Xia HP	
CHEMISTRY-A EUROPEAN JOURNAL	23(26)(2017) 6426-6431	218
133. New Insights into the Role of Al_2O_3 in the Promotion of CuZnAl Catalysts: A Model Study	Hu J, Song YY, Huang JJ, Li YY, Chen MS, Wan HL	
CHEMISTRY-A EUROPEAN JOURNAL	23(44)(2017) 10632-10637	219
134. Selective Catalytic Performances of Noble Metal Nanoparticle@MOF Composites: The Concomitant Effect of Aperture Size and Structural Flexibility of MOF Matrices	Chen LN, Zhan WW, Fang HH, Cao ZM, Yuan CF, Xie ZX, Kuang Q, Zheng LS	
CHEMISTRY-A EUROPEAN JOURNAL	23(47)(2017) 11397-11403	220
135. A $C(sp^2)$ -H Dehydrogenation of Heteroarenes and Arenes by a Functionalized Aluminum Hydride	Chen SM, Li B, Wang XP, Huang YT, Li JC, Zhu HP, Zhao LL, Frenking G, Roesky HW	
CHEMISTRY-A EUROPEAN JOURNAL	23(55)(2017) 13633-13637	221

136. Silver-Sulfur Hybrid Supertetrahedral Clusters: The Hitherto Missing Members in the Metal-Chalcogenide Tetrahedral Clusters
Luo GG, Su HF, Xiao A, Wang Z, Zhao Y, Wu QY, Wu JH, Sun D, Zheng LS
CHEMISTRY-A EUROPEAN JOURNAL 23(58)(2017) 14420-14424222
137. Peptide Macrocycles Developed from Precisely Regulated Multiple Cyclization of Unprotected Peptides
Wang JH, Zha MR, Fei QR, Liu WD, Zhao YB, Wu CL
CHEMISTRY-A EUROPEAN JOURNAL 23(60)(2017) 15150-15155223
138. A Critical Check for the Role of Resonance in Intramolecular Hydrogen Bonding
Jiang XY, Zhang HY, Wu W, Mo YR
CHEMISTRY-A EUROPEAN JOURNAL 23(66)(2017) 16885-16891224
139. Probing a General Rule towards Thermodynamic Stabilities of Mono BN-doped Lower Polyenes
Rouf AM, Wu JJ, Zhu J
CHEMISTRY-AN ASIAN JOURNAL 12(5)(2017) 605-614225
140. Structures and Magnetostructural Correlation Analyses for Two Novel Hexanuclear Complexes Based on a Pentadentate Schiff Base Ligand
Yang FL, Shao F, Zhu GZ, Shi YH, Gao F, Li XL
CHEMISTRYSELECT 2(1)(2017) 110-117226
141. Selective Conversion of Nitroarenes to N-Aryl Hydroxylamines Catalysed by Carbon-Nanotube-Supported Nickel(II) Hydroxide
Prakash P, Masi DD, Geertsen V, Miserque F, Li HY, Namboothiri INN, Gravel E, DorisE
CHEMISTRYSELECT 2(21)(2017) 5891-5894227
142. Oxygen-Molecule Adsorption and Dissociation on BCN Graphene: A First-Principles Study
Tang SB, Wu WH, Liu LX, Gu JJ
CHEMPHYSICHEM 18(1)(2017) 101-110228
143. Competing Mechanisms in the Acetaldehyde Functionalization of Positively Charged Hydrogenated Silicene
Yang LK, Zhang XG, Yang FZ, Wu DY, Liu XY, Tian ZQ
CHEMPHYSICHEM 18(3)(2017) 281-286229
144. Electrolyte Engineering: Optimizing High-Rate Double-Layer Capacitances of Micropore- and Mesopore-Rich Activated Carbon
Chen TH, Yang CH, Su CY, Lee TC, Dong QF, Chang JK
CHEMSUSCHEM 10(18)(2017) 3534-3539230
145. Enhanced Photocatalytic Activity of g-C₃N₄ via Modification of NiMoO₄ Nanorods
Hu WD, Yu JX, Jiang XL, Liu XZ, Jin RS, Lu Y, Zhao LH, Wu Y, He YM
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS 514(2017) 98-106231
146. Fullerene-Based Amino Acid Ester Chlorides Self-Assembled as Spherical Nano-Vesicles for Drug Delayed Release
Lin MS, Chen RT, Yu NY, Sun LC, Liu Y, Cui CH, Xie SY, Huang RB, Zheng LS
COLLOIDS AND SURFACES B-BIOINTERFACES 159(2017) 613-619232
147. Study of Proton-Coupled Electron Transfer (PCET) with Four Explicit Diabatic States at the Ab Initio Level

- Zhang HY, Wu W, Mo YR
 COMPUTATIONAL AND THEORETICAL CHEMISTRY 1116(2017) 50-58233
148. A Comparative Study on Seniority-Based MO and VS Calculations of the Singlet and Triplet Energy Gaps of Open-Shell Molecules
 Zhou C, Chen ZH, Wu W
 COMPUTATIONAL AND THEORETICAL CHEMISTRY 1116(2017) 86-91234
149. Assessing the Performance of Ab Initio Classical Valence Bond Methods for Hydrogen Transfer Reactions
 Karach I, Botvinik A, Truhlar DG, Wu W, Shurki A
 COMPUTATIONAL AND THEORETICAL CHEMISTRY 1116(2017) 234-241235
150. Effect of an External Electric Field on the C-N Cleavage Reactions in Nitromethane and Triaminotrinitrobenzene
 Lv L, Wei Y, Tao ZQ, Yang F, Wu DY, Yang ML
 COMPUTATIONAL AND THEORETICAL CHEMISTRY 1117(2017) 215-219236
151. Synthesis-Cum-Assembly toward Hierarchical Nanoarchitectures
 Zhou Y, Li JT, Sun SG
 COORDINATION CHEMISTRY REVIEWS 352(2017) 291-305237
152. Multifunctional Inhibition Based on Layered Double Hydroxides to Comprehensively Control Corrosion of Carbon Steel in Concrete
 Cao YH, Dong SG, Zheng DJ, Wang JJ, Zhang XJ, Du RG, Song GL, Lin CJ
 CORROSION SCIENCE 126(2017) 166-179238
153. Unusual N-oxide Formation in the Peroxidation of Cobalt(II) Ethylenediaminetetraacetates
 Yang YC, Wu R, Cai Y, Zhou ZH
 DALTON TRANSACTIONS 46(4)(2017) 1290-1296239
154. Peculiar Holes on Checkerboard Facets of a Trigonal Prismatic Au₉Ag₃₆(SPhCl₂)₂₇(PPh₃)₆ Cluster Caused by Steric Hindrance and Magic Electron Count
 Huang L, Yan JZ, Ren LT, Teo BK, Zheng NF
 DALTON TRANSACTIONS 46(6)(2017) 1757-1760240
155. Cu(III)triarylcorroles with Asymmetric Push-Pull Meso-Substitutions: Tunable Molecular Electrochemically Catalyzed Hydrogen Evolution
 Liang X, Niu YJ, Zhang QC, Mack J, Yi XY, Hlatshwayo Z, Nyokong T, Li MZ, Zhu WH
 DALTON TRANSACTIONS 46(21)(2017) 6912-6920241
156. Cu and Co Nanoparticle Composites Based on Starch Poly(Acrylic Acid) Hydrogel: Reusable Catalysts for Catalytic Reduction of Nitrophenol
 Ghorbanloo M, Tarasi S, Tarasi R, Tao J
 DESALINATION AND WATER TREATMENT 89(2017) 233-239242
157. Halogen Substituted A₂B Type Co(III)Triarylcorroles: Synthesis, Electronic Structure and Two Step Modulation of Electrocatalyzed Hydrogen Evolution Reactions
 Niu YJ, Li MZ, Zhang QC, Zhu WH, Mack J, Perno G, Nyokong T, Liang X
 DYES AND PIGMENTS 142(2017) 416-428243
158. Electrochemical Nanoimprint Lithography Directly on n-Type Crystalline Silicon (111) Wafer
 Zhang L, Zhang J, Yuan D, Han LH, Zhou JZ, Tian ZW, Tian ZQ, Zhan DP
 ELECTROCHEMISTRY COMMUNICATIONS 75(2017) 1-4244

159. In Situ SERS and SHINERS Study of Electrochemical Hydrogenation of p-Ethynylaniline in Nonaqueous Solvents
Wang J, Dong JC, Yang J, Wang Y, Zhang CJ, Xu MM, Mao BW, Yao JL, Li JF, Tian ZQ
ELECTROCHEMISTRY COMMUNICATIONS 78(2017) 16-20245
160. In Situ Electrochemical Surface-Enhanced Raman Spectroscopy Study of CO Electrooxidation on PtFe Nanocatalysts
Liang MM, Wang YH, Shao R, Yang WM, Zhang H, Zhang H, Yang ZL, Li JF, Tian ZQ
ELECTROCHEMISTRY COMMUNICATIONS 81(2017) 38-42246
161. Tip Current/Positioning Close-Loop Mode of Scanning Electrochemical Microscopy for Electrochemical Micromachining
Han LH, Zhao XS, Hu ZJ, Zhang J, Cao YZ, Yan YD, Tian ZQ, Tian ZW, Zhan DP
ELECTROCHEMISTRY COMMUNICATIONS 82(2017) 117-120247
162. Novel Insights into Higher Capacity from the Li-Ion Battery Cathode Material $\text{Li}_2\text{FeSiO}_4$
Liivat A, Thomas J, Guo JH, Yang Y
ELECTROCHIMICA ACTA 223(2017) 109-114248
163. Microwave-Assisted Synthesis of CuS/Graphene Composite for Enhanced Lithium Storage Properties
Li H, Wang YH, Huang JX, Zhang YY, Zhao JB
ELECTROCHIMICA ACTA 225(2017) 443-451249
164. Synthesis of Micro/Nanostructured Co_9S_8 Cubes and Spheres as High Performance Anodes for Lithium Ion Batteries
Wang YH, Wu BH, He XY, Zhang YY, Li H, Peng YY, Wang J, Zhao JB
ELECTROCHIMICA ACTA 230(2017) 299-307250
165. Improving the Electrochemistry Performance of Layer $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$ Material at 4.5 V Cutoff Potential Using Lithium Metaborate
Hu WQ, Zhang CH, Jiang H, Zheng MS, Wu QH, Dong QF
ELECTROCHIMICA ACTA 243(2017) 105-111251
166. Multiple Hydrogel Alginate Binders for Si Anodes of Lithium-Ion Battery
Wu ZY, Deng L, Li JT, Huang QS, Lu YQ, Liu J, Zhang T, Huang L, Sun SG
ELECTROCHIMICA ACTA 245(2017) 371-378252
167. Electrochemical Performance of MIL-53(Fe)@RGO as an Organic Anode Material for Li-ion Batteries
Zhang CH, Hu WQ, Jiang H, Chang JK, Zheng MS, Wu QH, Dong QF
ELECTROCHIMICA ACTA 246(2017) 528-535253
168. A Combined Electro- and Photo-Chemical Approach to Repeatedly Fabricate Two-Dimensional Molecular Assemblies
Wang Y, Sun YB, Ding XB, Liang JH, Cao XY, Tian ZQ
ELECTROCHIMICA ACTA 246(2017) 823-829254
169. Li_3VO_4 : An Insertion Anode Material for Magnesium Ion Batteries with High Specific Capacity
Zeng J, Yang Y, Li C, Li JQ, Huang JX, Wang J, Zhao JB
ELECTROCHIMICA ACTA 247(2017) 265-270255
170. Preparation of One-Dimensional Bamboo-like $\text{Cu}_{2-x}\text{S}@C$ Nanorods with Enhanced Lithium Storage Properties
Wang YH, Zhang YY, Li H, Peng YY, Li JY, Wang J, Hwang BJ, Zhao JB

ELECTROCHIMICA ACTA	247(2017) 271-280	.....256
171. Superior Li Storage Anode Based on Novel Fe-Sn-P Alloy Prepared by Electroplating Zheng XM, Zhang PY, Wang LK, Tao S, Wang YX, Huang L, Li JT, Sun SG	ELECTROCHIMICA ACTA	247(2017) 314-320 .....257
172. Polystyrene-Template-Assisted Synthesis of Li ₃ VO ₄ /C/rGO Ternary Composite with Honeycomb-Like Structure for Durable High-Rate Lithium Ion Battery Anode Materials Yang Y, Li JQ, Huang JX, Huang JX, Zeng J, Zhao JB	ELECTROCHIMICA ACTA	247(2017) 771-778 .....258
173. CuS Microspheres as High-Performance Anode Material for Na-ion Batteries Li H, Wang YH, Jiang JL, Zhang YY, Peng YY, Zhao JB	ELECTROCHIMICA ACTA	247(2017) 851-859 .....259
174. Exploring the Concentration Distribution of Photo-Generated Hydroxyl Radicals in a Confined Etchant Layer by Scanning Electrochemical Microscopy Huang YY, Zhou JZ, Zhan DP, Tian ZQ	ELECTROCHIMICA ACTA	258(2017) 322-327 .....260
175. Insights into the Structural Effects of Layered Cathode Materials for High Voltage Sodium-Ion Batteries Xu GL, Amine R, Xu YF, Liu JZ, Gim J, Ma TY, Ren Y, Sun CJ, Liu YZ, Zhang XY	ENERGY & ENVIRONMENTAL SCIENCE	10(7)(2017) 1677-1693 .....261
176. β -Diketiminato-Germylene Complexes of Carbonyl Ruthenium: Synthesis, Structure, and Reactivity Nie P, Li Y, Yu Q, Li B, Zhu HP, Wen TB	EUROPEAN JOURNAL OF INORGANIC CHEMISTRY	(33)(2017) 3892-3899 .....262
177. Electronic Structures of Divinylchalcogenophene-Bridged Biruthenium Complexes: Exploring Trends from O to Te Liu WX, Yan F, Qian SL, Ye JY, Liu X, Yu MX, Wu XH, Le ML, Zhou ZY, Liu SH	EUROPEAN JOURNAL OF INORGANIC CHEMISTRY	(43)(2017) 5015-5026 .....263
178. Further Expanding Versatility of Surface-Enhanced Raman Spectroscopy: from Non-Traditional SERS-Active to SERS-Inactive Substrates and Single Shell-Isolated Nanoparticle Ding SY, You EM, Yi J, Li JF, Tian ZQ	FARADAY DISCUSSIONS	205(2017) 457-468 .....264
179. Synergistic Effect of Nitrogen-Doped Carbon-Nanotube-Supported Cu-Fe Catalyst for the Synthesis of Higher Alcohols from Syngas Shi XP, Yu HB, Gao S, Li XY, Fang HH, Li RJ, Li YY, Zhang LJ, Liang XL, Yuan YZ	FUEL	210(2017) 241-248 .....265
180. A Promising Low Pressure Methanol Synthesis Route from CO ₂ Hydrogenation over Pd@Zn Core-Shell Catalysts Liao FL, Wu XP, Zheng JW, Li MMJ, Kroner A, Zeng ZY, Hong XL, Yuan YZ, Gong XQ, Tsang SCE	GREEN CHEMISTRY	19(1)(2017) 270-280 .....266
181. Graphite Oxide: a Metal Free Highly Efficient Carbocatalyst for the Synthesis of 1,5- Benzodiazepines under Room Temperature and Solvent Free Heating Conditions Jamatia R, Gupta A, Dam B, Saha M, Pal AK	GREEN CHEMISTRY	19(6)(2017) 1576-1585 .....267

182. Metal-Free Synthesis of Ketones by Visible-Light Induced Aerobic Oxidative Radical Addition of Aryl Hydrazines to Alkenes
Ding Y, Zhang WK, Li H, Meng YG, Zhang T, Chen QY, Zhu CY
GREEN CHEMISTRY 19(13)(2017) 2941-2944268
183. Catalytic Hydroboration of Aldehydes, Ketones, Alkynes and Alkenes Initiated by NaOH
Wu YL, Shan CK, Ying JX, Su J, Zhu J, Liu LL, Zhao YF
GREEN CHEMISTRY 19(17)(2017) 4169-4175269
184. Selective Formation of Chromogen I from *N*-Acetyl-D-glucosamine upon Lanthanide Coordination
Zheng XY, Peng JB, Livera M, Luo Y, Wang YY, Kong XJ, Long LS, Zheng ZP, Zheng LS
INORGANIC CHEMISTRY 56(1)(2017) 110-113270
185. Heterometallic Lanthanide-Titanium Oxo Clusters: A New Family of Water Oxidation Catalysts
Lu DF, Kong XJ, Lu TB, Long LS, Zheng LS
INORGANIC CHEMISTRY 56(3)(2017) 1057-1060271
186. Heptanuclear Co^{II}₅Co^{III}₂ Cluster as Efficient Water Oxidation Catalyst
Xu JH, Guo LY, Su HF, Gao X, Wu XF, Wang WG, Tung CH, Sun D
INORGANIC CHEMISTRY 56(3)(2017) 1591-1598272
187. Facile Route to Rare Heterobimetallic Aluminum-Copper and Aluminum-Zinc Selenide Clusters
Li B, Li JC, Liu R, Zhu HP, Roesky HW
INORGANIC CHEMISTRY 56(6)(2017) 3136-3139273
188. Anion-Dependent Assembly of Heterometallic 3d-4f Clusters Based on a Lacunary Polyoxometalate
Cai J, Zheng XY, Xie J, Yan ZH, Kong XJ, Ren YP, Long LS, Zheng LS
INORGANIC CHEMISTRY 56(14)(2017) 8439-8445274
189. Supercubes, Supersquares, and Superrods of Face-Centered Cubes (FCC): Atomic and Electronic Requirements of [M_m(SR)₈(PR'₃)₈]^q Nanoclusters (M = Coinage Metals) and Their Implications with Respect to Nucleation and Growth of FCC Metals
Teo BK, Yang HY, Yan JZ, Zheng NF
INORGANIC CHEMISTRY 56(19)(2017) 11470-11479275
190. A Water-Stable Cl@Ag₁₄ Cluster Based Metal-Organic Open Framework for Dichromate Trapping and Bacterial Inhibition
Zhang SS, Wang X, Su HF, Feng L, Wang Z, Ding WQ, Blatov VA, Kurmoo M, Tung CH, Sun D
INORGANIC CHEMISTRY 56(19)(2017) 11891-11899276
191. High-Nuclearity Lanthanide-Titanium Oxo Clusters as Luminescent Molecular Thermometers with High Quantum Yields
Lu DF, Hong ZF, Xie J, Kong XJ, Long LS, Zheng LS
INORGANIC CHEMISTRY 56(20)(2017) 12186-12192277
192. High Temperature Ionic Conduction Mediated by Ionic Liquid Incorporated within the Metal-Organic Framework UiO-67(Zr)
Chen LH, Wu BB, Zhao HX, Long LS, Zheng LS
INORGANIC CHEMISTRY COMMUNICATIONS 81(2017) 1-4278

193. Semiconducting Spin-Crossover Cobalt (II) Compound with Non-Integer Charge Distribution among TCNQ Radicals
Zhang JY, Su LJ, Guo QJ, Tao J
INORGANIC CHEMISTRY COMMUNICATIONS 82(2017) 39-43279
194. Syntheses, Structures, and Properties of Four Novel Ag(I) Coordination Polymers Based on 2,6-Dimethylpyrazine and Benzene Dicarboxylates
Cheng XY, Miao RQ, Zhong YY, Huang RB, Zheng LS
INORGANIC CHEMISTRY COMMUNICATIONS 86(2017) 192-199280
195. Structural Diversity of 1,3-Propylenediaminetetraacetato Metal Complexes: From Coordination Monomers to Coordination Polymers and MOF Materials
Chen ML, Zhou ZH
INORGANICA CHIMICA ACTA 458(2017) 199-217281
196. Two Cyclohexanofullerenes Used as Electron Transport Materials in Perovskite Solar Cells
Dai SM, Deng LL, Zhang ML, Chen WY, Zhu P, Wang X, Li C, Tan Z, Xie SY, Huang RB
INORGANICA CHIMICA ACTA 468(2017) 146-151282
197. Effect of Glycine-to-nitrate Ratio on Solution Combustion Synthesis of ZnFe₂O₄ as Anode Materials for Lithium Ion Batteries
Liu JM, Wang D, Dong P, Zhao JB, Meng Q, Zhang YJ, Li X
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE
12(5)(2017) 3741-3755283
198. Improving the Electrochemical Performance of LiNi_{0.5}Mn_{1.5}O₄ Cathode Materials by Surface Coating with Cyclized Polyacrylonitrile for Lithium-Ion Batteries
Lin WQ, Wang J, Zhou R, Wu BH, Zhao JB
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE
12(12)(2017) 12047-12059284
199. Surfactant-Free Pd-Fe Nanoparticles Supported on Reduced Graphene Oxide as Nanocatalyst for Formic Acid Oxidation
Feng AN, Bai J, Shao WY, Hong WJ, Tian ZQ, Xiao ZY
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
42(22)(2017) 15196-15202285
200. Combustion Synthesized Macroporous Structure MFe₂O₄ (M= Zn, Co) as Anode Materials with Excellent Electrochemical Performance for Lithium Ion Batteries
Liu JM, Xiao J, Zeng XY, Dong P, Zhao JB, Zhang YJ, Li X
JOURNAL OF ALLOYS AND COMPOUNDS 699(2017) 401-407286
201. ZnO/ZnGaNO Heterostructure with Enhanced Photocatalytic Properties Prepared from a LDH Precursor Using A Coprecipitation Method
Hu YL, Wu Z, Zheng XT, Lin N, Yang YH, Zuo J, Sun DY, Jiang CH, Sun L, Lin CJ
JOURNAL OF ALLOYS AND COMPOUNDS 709(2017) 42-53287
202. Synthesis of Hierarchical Spindle-Like Mn₂O₃ for Lithium Ion Batteries with Enhanced Lithium Storage Properties
Zhang YC, Li JT, Wu ZG, Huang L, Sun SG
JOURNAL OF ALLOYS AND COMPOUNDS 721(2017) 229-235288
203. Importance of Constructing Synergistic Protective Layers in Si-Reduced Graphene Oxide-Amorphous Carbon Ternary Composite as Anode for Lithium-Ion Batteries
Yang Y, Sun GY, Lin JL, Chen DQ, Zhang YY, Zhao JB

- JOURNAL OF ALLOYS AND COMPOUNDS 725(2017) 899-905289
204. Synthesis and Enhanced Electromagnetic Wave Absorption Performance of Amorphous $\text{Co}_x\text{Fe}_{10-x}$ Alloys
Jiang QR, Li HL, Cao ZM, Li H, Wang QX, Jiang ZY, Kuang Q, Xie ZX
JOURNAL OF ALLOYS AND COMPOUNDS 726(2017) 1255-1261290
205. The Construction of High Sulfur Content Spherical Sulfur-Carbon Nanotube-Polyethylene Glycol-Nickel Nitrate Hydroxide Composites for Lithium Sulfur Battery
Zhang YY, Li K, Li H, Wang YH, Peng YY, Lin SS, Hwang BJ, Zhao JB
JOURNAL OF ALLOYS AND COMPOUNDS 729(2017) 331-337291
206. Embryonic Growth of Face-Center-Cubic Silver Nanoclusters Shaped in Nearly Perfect Half-Cubes and Cubes
Yang HY, Yan JZ, Wang Y, Su HF, Gell L, Zhao XJ, Xu CF, Teo BK, Hakkinen H, Zheng NF
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(1)(2017) 31-34292
207. Reactions of Isocyanides with Metal Carbyne Complexes: Isolation and Characterization of Metallacyclopropenimine Intermediates
Luo M, Long LP, Zhang H, Yang YH, Hua YH, Liu G, Lin ZY, Xia HP
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(5)(2017) 1822-1825293
208. Surface Coordination Chemistry of Metal Nanomaterials
Liu PX, Qin RX, Fu G, Zheng NF
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(6)(2017) 2122-2131294
209. Metal- and Reagent-Free Intramolecular Oxidative Amination of Tri- and Tetrasubstituted Alkenes
Xiong P, Xu HH, Xu HC
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(8)(2017) 2956-2959295
210. Understanding the Cubic Phase Stabilization and Crystallization Kinetics in Mixed Cations and Halides Perovskite Single Crystals
Xie LQ, Chen L, Nan ZA, Lin HX, Wang T, Zhan DP, Yan JW, Mao BW, Tian ZQ
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(9)(2017) 3320-3323296
211. Confinement of Ultrasmall Cu/ZnOx Nanoparticles in Metal-Organic Frameworks for Selective Methanol Synthesis from Catalytic Hydrogenation of CO_2
An B, Zhang JZ, Cheng K, Ji PF, Wang C, Lin WB
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(10)(2017) 3834-3840297
212. Bottom-Up Fabrication of Sulfur-Doped Graphene Films Derived from Sulfur-Annulated Nanographene for Ultrahigh Volumetric Capacitance Micro-Supercapacitors
Wu ZS, Tan YZ, Zheng SH, Wang S, Parvez K, Qin JQ, Shi XY, Sun CL, Bao XH, Feng XL
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(12)(2017) 4506-4512298
213. Exciton Migration and Amplified Quenching on Two-Dimensional Metal-Organic Layers
Cao LY, Lin ZK, Shi WJ, Wang Z, Zhang CK, Hu XF, Wang C, Lin WB
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(20)(2017) 7020-7029299
214. Valence Bond Theory Reveals Hidden Delocalized Diradical Character of Polyenes
Gu JJ, Wu W, Danovich D, Hoffmann R, Tsuji Y, Shaik S
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(27)(2017) 9302-9316300

215. Revealing the Role of Interfacial Properties on Catalytic Behaviors by in Situ Surface-Enhanced Raman Spectroscopy
Zhang H, Zhang XG, Wei J, Wang C, Chen S, Sun HL, Wang YH, Chen BH, Yang ZL, Wu DY
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(30)(2017) 10339-10346 · 301
216. Bulky Surface Ligands Promote Surface Reactivities of $[Ag_{141}X_{12}(S-Adm)_{40}]^{3+}$ (X = Cl, Br, I) Nanoclusters: Models for Multiple-Twinned Nanoparticles
Ren LT, Yuan P, Su HF, Malola S, Lin SC, Tang ZC, Teo BK, Hakkinen H, Zheng LS, Zheng NF
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(38)(2017) 13288-13290 · 302
217. Core-Shell $\{Mn_7 \subset (Mn,Cd)_{12}\}$ Assembled from Core $\{Mn_7\}$ Disc
Guo LY, Su HF, Kurmoo M, Tung CH, Sun D, Zheng LS
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(40)(2017) 14033-14036 · 303
218. Switching of Charge Transport Pathways via Delocalization Changes in Single-Molecule Metallacycles Junctions
Li RH, Lu ZY, Cai YT, Jiang F, Tang C, Chen ZX, Zheng JT, Pi JC, Zhang R, Liu JY
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(41)(2017) 14344-14347 · 304
219. From Racemic Metal Nanoparticles to Optically Pure Enantiomers in One Pot
Yang HY, Yan JZ, Wang Y, Deng GC, Su HF, Zhao XJ, Xu CF, Teo BK, Zheng NF
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(45)(2017) 16113-16116 · 305
220. Molecular Iridium Complexes in Metal-Organic Frameworks Catalyze CO_2 Hydrogenation via Concerted Proton and Hydride Transfer
An B, Zeng LZ, Jia M, Li Z, Lin ZK, Song Y, Zhou Y, Cheng J, Wang C, Lin WB
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(49)(2017) 17747-17750 · 306
221. Molecular Face-Rotating Cube with Emergent Chiral and Fluorescence Properties
Qu H, Wang Y, Li ZH, Wang XC, Fang HX, Tian ZQ, Cao XY
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(50)(2017) 18142-18145 · 307
222. A Gigantic Molecular Wheel of $\{Gd_{140}\}$: A New Member of the Molecular Wheel Family
Zheng XY, Jiang YH, Zhuang GL, Liu DP, Liao HG, Kong XJ, Long LS, Zheng LS
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 139(50)(2017) 18178-18181 · 308
223. New 12,8-Eudesmanolides from *Eutypella* sp 1-15
Wang YZ, Wang Y, Wu AA, Zhang L, Hu ZY, Huang HY, Xu QY, Deng XM
JOURNAL OF ANTIBIOTICS 70(10)(2017) 1029-1032 309
224. Tuning Ag Morphology on TiO_2 Nanotube Arrays by Pulse Reverse Current Deposition for Enhanced Plasmon-Driven Visible-Light Response
Xie KP, Gong C, Wang MY, Sun L, Lin CJ
JOURNAL OF APPLIED ELECTROCHEMISTRY 47(8)(2017) 959-968 310
225. Metal-Free, Robust, and Regenerable 3D Graphene-Organics Aerogel with High and Stable Photosensitization Efficiency
Yang MQ, Zhang N, Wang Y, Xu YJ
JOURNAL OF CATALYSIS 346(2017) 21-29 311
226. Performance Comparison of Systematic Methods for Rigorous Definition of Coarse-Grained Sites of Large Biomolecules
Zhang YW, Cao ZX, Zhang JZ, Xia F
JOURNAL OF CHEMICAL INFORMATION AND MODELING 57(2)(2017) 214-222 · 312

227. Accelerating Two-Dimensional Nuclear Magnetic Resonance Correlation Spectroscopy via Selective Coherence Transfer
Ye QM, Chen L, Qiu WQ, Lin LJ, Sun HH, Cai SL, Wei Z, Chen Z
JOURNAL OF CHEMICAL PHYSICS 146(1)(2017)014202313
228. A Discrete Fourier-Encoded, Diagonal-Free Experiment to Simplify Homonuclear 2D NMR Correlations
Huang ZB, Guan QS, Chen Z, Frydman LC, Lin YL
JOURNAL OF CHEMICAL PHYSICS 147(3)(2017) 034201314
229. The Dissociation and Recombination rates of CH₄ through the Ni(111) Surface: The Effect of Lattice Motion
Wang WJ, Zhao Y
JOURNAL OF CHEMICAL PHYSICS 147(4)(2017) 044703315
230. Hierarchy of Stochastic Schrodinger Equation towards the Calculation of Absorption and Circular Dichroism Spectra
Ke YL, Zhao Y
JOURNAL OF CHEMICAL PHYSICS 146(17)(2017) 174105316
231. Perturbation Expansions of Stochastic Wavefunctions for Open Quantum Systems
Ke YL, Zhao Y
JOURNAL OF CHEMICAL PHYSICS 147(18)(2017) 184103317
232. An Extension of Stochastic Hierarchy Equations of Motion for the Equilibrium Correlation Functions
Ke YL, Zhao Y
JOURNAL OF CHEMICAL PHYSICS 146(21)(2017) 214105318
233. Observation of Promoted C-O Bond Weakening on the Heterometallic Nickel-Silver: Photoelectron Velocity-Map Imaging Spectroscopy of AgNi(CO)_n⁻
Liu ZL, Xie H, Zou JH, Fan HJ, Tang ZC
JOURNAL OF CHEMICAL PHYSICS 146(24)(2017) 244316319
234. Hamiltonian Matrix Correction Based Density Functional Valence Bond Method
Zhou C, Zhang Y, Gong XP, Ying FM, Su PF, Wu W
JOURNAL OF CHEMICAL THEORY AND COMPUTATION 13(2)(2017) 627-634320
235. Electroactive Polymerization Behaviors of Fused-Pentagon Chlorofullerenes: ^{#1809}C₆₀C₁₈ and ^{#271}C₅₀Cl₁₀
Liang H, Yang ZY, Yan MH, Xie SY
JOURNAL OF CLUSTER SCIENCE 28(6)(2017) 3059-3066321
236. Chemotherapeutic Drug-Photothermal Agent Co-Self-Assembling Nanoparticles for Near-Infrared Fluorescence and Photoacoustic Dual-Modal Imaging-Guided Chemo-Photothermal Synergistic Therapy
Li Y, Liu GH, Ma JY, Lin JY, Lin HR, Su GH, Chen DY, Ye SF, Chen XY, Zhu X
JOURNAL OF CONTROLLED RELEASE 258(2017) 95-107322
237. Synthesis, Characterization and Luminescent Properties of Copper(I) Halide Complexes Containing Biphenyl Bidentate Phosphine Ligand
Chen BL, Li L, Zhong XX, Asiri A, Alamry K, Li GH, Li FB, Zhu NY, Wong WY, Qin HM
JOURNAL OF COORDINATION CHEMISTRY 70(23)(2017)3907-3919323

238. Identifying the Significance of Proton-Electron Transfer in CH₄ Production on Cu (100) in CO₂ Electro-Reduction
Sheng T, Sun SG
JOURNAL OF ELECTROANALYTICAL CHEMISTRY 793(2017) 184-187324
239. A Simultaneous Multi-Slice Selective J-Resolved Experiment for fully Resolved Scalar Coupling Information
Zeng Q, Lin LJ, Chen JY, Lin YQ, Barker PB, Chen Z
JOURNAL OF MAGNETIC RESONANCE 282(2017) 27-31325
240. High Sulfur Loading Lithium-Sulfur Batteries Based on A Upper Current Collector Electrode with Lithium-Ion Conductive Polymers
Zhang YY, Li K, Li H, Peng YY, Wang YH, Wang J, Zhao JB
JOURNAL OF MATERIALS CHEMISTRY A 5(1)(2017) 97-101326
241. Enhanced Visible Light Photoelectrocatalytic Activity over Cu_xZn_{1-x}In₂S₄@TiO₂ Nanotube Array Hetero-Structures
Wu Z, Gong C, Yu JD, Sun L, Xiao W, Lin CJ
JOURNAL OF MATERIALS CHEMISTRY A 5(3)(2017) 1292-1299327
242. Cerium Oxide Standing Out as An Electron Transport Layer for Efficient and Stable Perovskite Solar Cells Processed at Low Temperature
Wang X, Deng LL, Wang LY, Dai SM, Xing Z, Zhan XX, Lu XZ, Xie SY, Huang RB, Zheng LS
JOURNAL OF MATERIALS CHEMISTRY A 5(4)(2017) 1706-1712328
243. The Application of Al₂TiO₅ at the TiO₂/Perovskite Interface to Decrease Carrier Losses in Solar Cells
Zhao BX, Wen XR, Jiang ML, Wu JM, Lan F, Wang JS, Engelsen DD, Li GY, Gao D
JOURNAL OF MATERIALS CHEMISTRY A 5(7)(2017) 3691-3698329
244. A Nitrogen-Doped Nano Carbon Dodecahedron with Co@Co₃O₄ Implants as a Bi-Functional Electrocatalyst for Efficient Overall Water Splitting
Bai CD, Wei SS, Deng DR, Lin XD, Zheng MS, Dong QF
JOURNAL OF MATERIALS CHEMISTRY A 5(20)(2017) 9533-9536330
245. Constructing Multifunctional MOF@rGO Hydro-/Aerogels by the Self-Assembly Process for Customized Water Remediation
Mao JJ, Ge MZ, Huang JY, Lai YK, Lin CJ, Zhang KQ, Meng K, Tang YX
JOURNAL OF MATERIALS CHEMISTRY A 5(23)(2017) 11873-11881331
246. A Novel Strategy for the Synthesis of Sulfur-Doped Carbon Nanotubes as a Highly Efficient Pt Catalyst Support Toward the Methanol Oxidation Reaction
Fan JJ, Fan YJ, Wang RX, Xiang S, Tang HG, Sun SG
JOURNAL OF MATERIALS CHEMISTRY A 5(36)(2017) 19467-19475332
247. In Situ Preparation of a Macro-Chamber for S Conversion Reactions in Lithium-Sulfur Batteries
Deng DR, Lei J, Xue F, Bai CD, Lin XD, Ye JC, Zheng MS, Dong QF
JOURNAL OF MATERIALS CHEMISTRY A 5(45)(2017) 23497-23505333
248. Quantifying Defect-Enhanced Chemical Functionalization of Single-Layer Graphene and Its Application in Supramolecular Assembly
Ye XL, Cai J, Yang XD, Tang XY, Zhou ZY, Tan YZ, Xie SY, Zheng LS
JOURNAL OF MATERIALS CHEMISTRY A 5(46)(2017) 24257-24262334

249. Electrocatalytic Reduction of CO₂ to CO with 100% Faradaic Efficiency by Using Pyrolyzed Zeolitic Imidazolate Frameworks Supported on Carbon Nanotube Networks
Guo Y, Yang HJ, Zhou X, Liu KL, Zhang C, Zhou ZY, Wang C, Lin WB
JOURNAL OF MATERIALS CHEMISTRY A 5(47)(2017) 24867-24873335
250. Manganese-Iron Layered Double Hydroxide: a Theranostic Nanoplatform with pH-Responsive MRI Contrast Enhancement and Drug Release
Huang GM, Zhang KL, Chen S, Li SH, Wang LL, Wang LP, Liu R, Gao JH, Yang HH
JOURNAL OF MATERIALS CHEMISTRY B 5(20)(2017) 3629-3633336
251. Topology Dictates Function: Controlled ROS Production and Mitochondria Accumulation via Curved Carbon Materials
Liu SH, Lu D, Wang XC, Ding D, Kong DL, Wang Z, Zhao YJ
JOURNAL OF MATERIALS CHEMISTRY B 5(25)(2017) 4918-4925337
252. Dually Folate/CD44 Receptor-Targeted Self-Assembled Hyaluronic Acid Nanoparticles for Dual-Drug Delivery and Combination Cancer Therapy
Song L, Pan Z, Zhang HB, Li YX, Zhang YY, Lin JY, Su GH, Ye SF, Xie LY, Li Y
JOURNAL OF MATERIALS CHEMISTRY B 5(33)(2017) 6835-6846338
253. Geometrical Confinement Directed Albumin-Based Nanoprobes as Enhanced T₁ Contrast Agents for Tumor Imaging
Wang LR, Lin HY, Ma LC, Sun CJ, Huang JQ, Li A, Zhao T, Chen Z, Gao JH
JOURNAL OF MATERIALS CHEMISTRY B 5(39)(2017) 8004-8012339
254. Tunable Magnetic Pole Inversion in Multiferroic BiFeO₃-DyFeO₃ Solid Solution
Wu JT, Liao ZZ, Sun T, Su LW, Bi J, Fan GY, Gao DJ, Xie ZX, Ye ZG
JOURNAL OF MATERIALS CHEMISTRY C 5(16)(2017) 4063-4067340
255. Silicon-Multi-Walled Carbon Nanotubes-Carbon Microspherical Composite as High-Performance Anode for Lithium-Ion Batteries
Zhang YY, Li K, Ji PY, Chen DQ, Zeng J, Sun YZ, Zhang P, Zhao JB
JOURNAL OF MATERIALS SCIENCE 52(7)(2017) 3630-3641341
256. TiO₂-MoS₂ Hybrid Nano Composites with 3D Network Architecture as Binder-Free Flexible Electrodes for Lithium Ion Batteries
Zhang YJ, Zhao SB, Zeng XY, Xiao J, Dong P, Zhao JB, Sun SG, Huang L, Li X
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS
28(13)(2017) 9519-9527342
257. Microsolvation Effects on the Reactivity of Oxy-Nucleophiles: the Case of Gas-Phase S_N2 Reactions of YO(CH₃OH)_{n=1,2} towards CH₃Cl
Liu YY, Qiu FZ, Zhu J, Ren Y, Lau KC
JOURNAL OF MOLECULAR MODELING 23(6)(2017) 192343
258. Synthesis of α,β -Unsaturated Amidines through Gold-Catalyzed Intermolecular Reaction of Azides with Ynamides
Ruan PP, Li HH, Liu X, Zhang T, Zuo SX, Zhu CY, Ye LW
JOURNAL OF ORGANIC CHEMISTRY 82(17)(2017) 9119-9125344
259. Yttrium-Catalyzed Tandem Intermolecular Hydroalkoxylation/Claisen Rearrangement
Zhou B, Li L, Liu X, Tan TD, Liu JX, Ye LW
JOURNAL OF ORGANIC CHEMISTRY 82(19)(2017) 10149-10157345

260. Theoretical Studies on the Switching Behavior of Dithienylethene-Containing Platinum(II) Complexes
Zhang LS, Li HF, Liu QY, Ye M, Zheng LY, Fan XL, Liang WZ
JOURNAL OF ORGANOMETALLIC CHEMISTRY 846(2017) 230-235346
261. Intersystem Crossing Rates of Isolated Fullerenes: Theoretical Calculations
Liu YX, Lin MS, Zhao Y
JOURNAL OF PHYSICAL CHEMISTRY A 121(5)(2017) 1145-1152347
262. Probing Chemical Bonding and Electronic Structures in ThO⁻ by Anion Photoelectron Imaging and Theoretical Calculations
Li YL, Zou JH, Xiong XG, Su J, Xie H, Fei ZJ, Tang ZC, Liu HT
JOURNAL OF PHYSICAL CHEMISTRY A 121(10)(2017) 2108-2113348
263. The Origin of the Non-Additivity in Resonance-Assisted Hydrogen Bond Systems
Lin XH, Zhang HY, Jiang X, Wu W, Mo YR
JOURNAL OF PHYSICAL CHEMISTRY A 121(44)(2017) 8535-8541349
264. Centimeter-Scale Nearly Single-Crystal Monolayer MoS₂ via Self Limiting Vapor Deposition Epitaxy
Zhan LJ, Wan W, Zhu ZW, Xu YX, Shih TM, Zhang CK, Lin WY, Li XT, Zhao ZJ, Ying H
JOURNAL OF PHYSICAL CHEMISTRY C 121(8)(2017) 4703-4707350
265. CO Dissociation Mechanism on Pd-Doped Fe(100): Comparison with Cu/Fe(100)
Wang W, Wang Y, Wang GC
JOURNAL OF PHYSICAL CHEMISTRY C 121(12)(2017) 6820-6834351
266. Etching Kinetics of III-V Semiconductors Coupled with Surface Passivation Investigated by Scanning Electrochemical Microscopy
Zhang J, Lai JH, Wang W, Huang PC, Jia JC, Han LH, Tian ZW, Tian ZQ, Zhan DP
JOURNAL OF PHYSICAL CHEMISTRY C 121(18)(2017) 9944-9952352
267. SERS Chemical Enhancement of Water Molecules from Halide Ion Coadsorption and Photoinduced Charge Transfer on Silver Electrodes
Pang R, Zhang XG, Zhou JZ, Wu DY, Tian ZQ
JOURNAL OF PHYSICAL CHEMISTRY C 121(19)(2017) 10445-10454353
268. Charge Carrier Mobilities and Singlet Fission Dynamics in Thienoquinoidal Compounds
Zhu ZY, Zang H, Zhao Y, Liang WZ
JOURNAL OF PHYSICAL CHEMISTRY C 121(41)(2017) 22587-22596354
269. How the Structures and Properties of Two-Dimensional Layered Perovskites MAPbI₃ and CsPbI₃ Vary with the Number of Layers
Zhang L, Liang WZ
JOURNAL OF PHYSICAL CHEMISTRY LETTERS 8(7)(2017) 1517-1523355
270. Thermal Stability of Co-Pt and Co-Au Core-Shell Structured Nanoparticles: Insights from Molecular Dynamics Simulations
Wen YH, Huang R, Shao GF, Sun SG
JOURNAL OF PHYSICAL CHEMISTRY LETTERS 8(17)(2017) 4273-4278356
271. Quantum Interference in Singlet Fission: J- and H-Aggregate Behavior
Zang H, Zhao Y, Liang WZ
JOURNAL OF PHYSICAL CHEMISTRY LETTERS 8(20)(2017) 5105-5112357

272. Pristine Fullerenes Mixed by Vacuum-Free Solution Process: Efficient Electron Transport Layer for Planar Perovskite Solar Cells
Dai SM, Tian HR, Zhang ML, Xing Z, Wang LY, Wang X, Wang T, Deng LL, Xie SY, Huang RB
JOURNAL OF POWER SOURCES 339(2017) 27-32358
273. Toward A Stable Electrochemical Interphase with Enhanced Safety on High-Voltage LiCoO₂ Cathode: A Case of Phosphazene Additives
Ji YJ, Zhang PB, Lin M, Zhao WM, Zhang ZR, Zhao YF, Yang Y
JOURNAL OF POWER SOURCES 359(2017) 391-399359
274. Pt Skin Coated Hollow Ag-Pt Bimetallic Nanoparticles with High Catalytic Activity for Oxygen Reduction Reaction
Fu T, Huang JX, Lai SB, Zhang SZ, Fang J, Zhao JB
JOURNAL OF POWER SOURCES 365(2017) 17-25360
275. Theoretical Study of Normal Raman Spectra and SERS of Benzyl Chloride and Benzyl Radical on Silver Electrodes
Chen YL, Panneerselvam R, Wu DY, Tian ZQ
JOURNAL OF RAMAN SPECTROSCOPY 48(1)(2017) 53-63361
276. Surface Plasmon-Mediated Photocatalytic Polymerization of p-Dinitrobenzene and p-Phenylenediamine Studied by Surface-Enhanced Raman Spectroscopy and Density Functional Theory
Liu XX, Zhang M, Zhao LB, Wu DY, He RX, Li M
JOURNAL OF RAMAN SPECTROSCOPY 48(4)(2017) 538-548362
277. Quantitative Detection Using Two-Dimension Shell-Isolated Nanoparticle Film
Yang JL, Yang ZW, Zhang YJ, Ren H, Zhang H, Xu QC, Panneerselvam R, Sivashanmugan K, Li JF, Tian ZQ
JOURNAL OF RAMAN SPECTROSCOPY 48(7)(2017) 919-924363
278. Heterometallic Metal-Organic Framework-Templated Synthesis of Porous Co₃O₄/ZnO Nanocage Catalysts for the Carbonylation of Glycerol
Lu YY, Jiang YT, Zhou Q, Li YM, Chen LN, Kuang Q, Xie ZX, Zheng LS
JOURNAL OF SOLID STATE CHEMISTRY 256(2017) 93-100364
279. Spray Drying-Assisted Synthesis of Li₃VO₄/C/CNTs Composites for High-Performance Lithium Ion Battery Anodes
Yang Y, Li JQ, Chen DQ, Zhao JB
JOURNAL OF THE ELECTROCHEMICAL SOCIETY 164(1)(2017) A6001-A6006365
280. Effect of Glassy Carbon Electrode Surface on Electrosynthesis of Platinum Nanoparticles and Their Catalytic Durability for Formic Acid Oxidation
Wang YH, Yang YX, Zhen X, Chen QL, Wang WJ, Xie ZX, Shiz K
JOURNAL OF THE ELECTROCHEMICAL SOCIETY 164(2)(2017) F163-F170366
281. Heating-Induced Enhancement of Corrosion Protection of Carbon Steel by a Nanocomposite Film Containing Mussel Adhesive Protein
Chen CD, Hou RQ, Zhang F, Dong SG, Claesson PM, Lin CJ, Pan JS
JOURNAL OF THE ELECTROCHEMICAL SOCIETY 164(4)(2017) C188-C193367
282. In Situ Monitoring of Structural and Valence Evolution during Electrochemical Desodiation/Sodiation Process of Na₂Fe_{0.5}Mn_{0.5}PO₄F
Xie Y, Wang HC, Liu R, Wang ZG, Wen W, Jiang Z, Gong ZL, Yang Y

283. Finely Composition-Tunable Synthesis of Ultrafine Wavy PtRu Nanowires as Effective Electrochemical Sensors for Dopamine Detection
 Zhao WY, Ni B, Yuan Q, Wang Y, Zhang QH, Wang X
 LANGMUIR 33(32)(2017) 8070-8075369
284. Preparation of Carbon-Coated Magnetic Nanocomposites under Inert Atmosphere and at low Temperature
 Zuo SS, Bai HX, Han Q, Liao HG, Gu HB, Chen ZF
 MATERIALS & DESIGN 114(2017) 25-30370
285. Binder-Free TiO₂ Nanowires-C/Si/C 3D Network Composite as High Performance Anode for Lithium Ion Battery
 Liao WJ, Chen DQ, Zhang YY, Zhao JB
 MATERIALS LETTERS 209(2017) 547-550371
286. Altered Metabolite Levels and Correlations in Patients with Colorectal Cancer and Polyps Detected Using Seemingly Unrelated Regression Analysis
 Chen C, Gowda GAN, Zhu JJ, Deng LL, Gu HW, Chiorean EG, Zaid MA, Harrison M, Zhang DB, Zhang M, Raftery D
 METABOLOMICS 13(11)(2017) 125372
287. Crystalline-Selected Synthesis of Ferrous Oxalate Dihydrate from Spent Pickle Liquor
 Dong P, Liang HX, Liu JL, Wei KY, Zhao JB, Li X, Zhang YJ
 METALLURGICAL RESEARCH & TECHNOLOGY 114(5)(2017) 515373
288. Stokes Shifts of Small ZnSe Clusters from First-Principles Calculations
 Cui YQ, Yin PF, Cui XH, Wu DY, Yang ML
 MOLECULAR PHYSICS 115(24)(2017) 3192-3198374
289. A Universal Strategy for Metal Oxide Anchored and Binder-Free Carbon Matrix Electrode: A Supercapacitor Case with Superior Rate Performance and High Mass Loading
 Zhang X, Luo JS, Tang PY, Ye XL, Peng XX, Tang HL, Sun SG, Fransær J
 NANO ENERGY 31(2017) 311-321375
290. Graphitized Porous Carbon Materials with High Sulfur Loading for Lithium-Sulfur Batteries
 Peng XX, Lu YQ, Zhou LL, Sheng T, Shen SY, Liao HG, Huang L, Li JT, Sun SG
 NANO ENERGY 32(2017) 503-510376
291. Octahedral PtCu Alloy Nanocrystals with High Performance for Oxygen Reduction Reaction and Their Enhanced Stability by Trace Au
 Lu BA, Sheng T, Tian N, Zhang ZC, Xiao C, Cao ZM, Ma HB, Zhou ZY, Sun SG
 NANO ENERGY 33(2017) 65-71377
292. Engineering Phase and Surface Composition of Pt₃Co Nanocatalysts: A Strategy for Enhancing CO Tolerance
 Zhang ZC, Tian XC, Zhang BW, Huang L, Zhu FC, Qu XM, Liu L, Liu S, Jiang YX, Sun SG
 NANO ENERGY 34(2017) 224-232378
293. Structure Dependent Electrochemical Performance of Li-Rich Layered Oxides in Lithium-Ion Batteries
 Fu F, Yao YZ, Wang HY, Xu GL, Amine K, Sun SG, Shao M
 NANO ENERGY 35(2017) 370-378379

294. Excavated Octahedral Pt-Co Alloy Nanocrystals Built with Ultrathin Nanosheets as Superior Multifunctional Electrocatalysts for Energy Conversion Applications
Chen QL, Cao ZM, Du GF, Kuang Q, Huang J, Xie ZX, Zheng LS
NANO ENERGY 39(2017) 582-589380
295. High Performance Graphene/Semiconductor Van Der Waals Heterostructure Optoelectronic Devices
Lin SS, Lu YH, Xu J, Feng SR, Li JF
NANO ENERGY 40(2017) 122-148381
296. Identifying the Electrocatalytic Sites of Nickel Disulfide in Alkaline Hydrogen Evolution Reaction
Ma QY, Hu CY, Liu KL, Hung SF, Ou DH, Chen HM, Fu G, Zheng NF
NANO ENERGY 41(2017) 148-153382
297. Plasmon Enhanced Quantum Dots Fluorescence and Energy Conversion in Water Splitting Using Shell-Isolated Nanoparticles
Yin H, Yi J, Yang ZW, Xu ZY, Xie SJ, Li L, Li CY, Xu J, Zhang H, Zhang SJ
NANO ENERGY 42(2017) 232-240383
298. Insights into the Distinct Lithiation/Sodiation of Porous Cobalt Oxide by in Operando Synchrotron X-ray Techniques and Ab Initio Molecular Dynamics Simulations
Xu GL, Sheng T, Chong LN, Ma TY, Sun CJ, Zuo XB, Liu DJ, Ren Y, Zhang XY, Liu YZ
NANO LETTERS 17(2)(2017) 953-962384
299. Nanostructured Fibrous Membranes with Rose Spike-Like Architecture
Nasajpour A, Mandla S, Shree S, Mostafavi E, Sharifi R, Khalilpour A, Saghadzadeh S, Hassan S, Mitchell MJ, Leijten J, Leijten J, Hou X, Moshaverinia A, Annabi N, Adelung R, Mishra YK, Shin SR, Tamayol A, Khademhosseini A
NANO LETTERS 17(10)(2017) 6235-6240385
300. Ligand-Assisted, One-Pot Synthesis of Rh-on-Cu Nanoscale Sea Urchins with High-Density Interfaces for Boosting CO Oxidation
Wang W, Cao ZM, Liu K, Chen JY, Wang YY, Xie SF
NANO LETTERS 17(12)(2017) 7613-7619386
301. Safety Profile of Two-Dimensional Pd Nanosheets for Photothermal Therapy and Photoacoustic Imaging
Chen M, Chen SZ, He CY, Mo SG, Wang XY, Liu G, Zheng NF
NANO RESEARCH 10(4)(2017) 1234-1248387
302. Catalysis Under Shell: Improved CO Oxidation Reaction Confined in Pt@h-BN Core-Shell Nanoreactors
Sun MM, Fu Q, Gao LJ, Zheng YP, Li YY, Chen MS, Bao XH
NANO RESEARCH 10(4)(2017) 1403-1412388
303. Promising Electroplating Solution for Facile Fabrication of Cu Quantum Point Contacts
Yang Y, Liu JY, Zheng JT, Lu M, Shi J, Hong WJ, Yang FZ, Tian ZQ
NANO RESEARCH 10(10)(2017) 3314-3323389
304. Monodispersed sub-5.0 nm PtCu Nanoalloys as Enhanced Bifunctional Electrocatalysts for Oxygen Reduction Reaction and Ethanol Oxidation Reaction
Liu TY, Wang K, Yuan Q, Shen ZB, Wang Y, Zhang QH, Wang X
NANOSCALE 9(9)(2017) 2963-2968390

305. Albumin-Based Nanoparticles Loaded with Hydrophobic Gadolinium Chelates as T_1 - T_2 Dual-Mode Contrast Agents for Accurate Liver Tumor Imaging
Wang LR, Lin HY, Ma LC, Jin JB, Shen TP, Wei RX, Wang XM, Ai H, Chen Z, Gao JH
NANOSCALE 9(13)(2017) 4516-4523391
306. Structure, Solution Assembly, and Electroconductivity of Nanosized Argento-Organiccluster/Framework Templated by Chromate
Li XY, Su HF, Kurmoo M, Tung CH, Sun D, Zheng LS
NANOSCALE 9(16)(2017) 5305-5314392
307. In Situ SERS Study of Surface plasmon Resonance Enhanced Photocatalytic Reactions Using Bifunctional Au@CdS Core-Shell Nanocomposites
Yang JL, Xu J, Ren H, Sun L, Xu QC, Zhang H, Li JF, Tian ZQ
NANOSCALE 9(19)(2017) 6254-6258393
308. The Synergy Between Atomically Dispersed Pd and Cerium Oxide for Enhanced Catalytic Properties
Wang X, Chen JY, Zeng JX, Wang QX, Li ZJ, Qin RX, Wu CZ, Xie ZX, Zheng LS
NANOSCALE 9(20)(2017) 6643-6648394
309. Electrochemical Nanoimprint Lithography: When Nanoimprint Lithography Meets Metal Assisted Chemical Etching
Zhang J, Zhang L, Han LH, Tian ZW, Tian ZQ, Zhan DP
NANOSCALE 9(22)(2017) 7476-7482395
310. Capabilities of Transition Metals in Retarding the Bonding of Carbon Atoms to Minimize Dendritic Graphene
Zhu ZW, Zhan LJ, Wan W, Zhao ZJ, Shih TM, Cai WW
NANOSCALE 9(39)(2017) 14804-14808396
311. Di-isopropyl Ether Assisted Crystallization of Organic-Inorganic Perovskites for Efficient and Reproducible Perovskite Solar Cells
Wang LY, Deng LL, Wang X, Wang T, Liu HR, Dai SM, Xing Z, Xie SY, Huang RB, Zheng LS
NANOSCALE 9(45)(2017) 17893-17901397
312. Solution-Processed Cu(In, Ga)(S, Se)₂ Nanocrystal as Inorganic Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells
Xu L, Deng LL, Cao J, Wang X, Chen WY, Jiang ZY
NANOSCALE RESEARCH LETTERS 12(2017) 159398
313. One-Pot Synthesis of Hierarchical Flower-Like Pd-Cu Alloy Support on Graphene Towards Ethanol Oxidation
Zhang JY, Feng AN, Bai J, Tan ZB, Shao WY, Yang Y, Hong WJ, Xiao ZY
NANOSCALE RESEARCH LETTERS 12(2017) 521399
314. A Visualization Method for Probing Grain Boundaries of Single Layer Graphene Via Molecular Beam Epitaxy
Zhan LJ, Wan W, Zhu ZW, Zhao ZJ, Zhang ZH, Shih TM, Cai WW
NANOTECHNOLOGY 28(30)(2017) 305601400
315. Arsenite-Loaded Nanoparticles Inhibit the Invasion and Metastasis of A Hepatocellular Carcinoma: In Vitro and In Vivo Study
Chi XQ, Yin ZY, Jin JB, Li H, Zhou J, Zhao ZH, Zhang S, Zhao WX, Xie CR, Li J, Feng M, Lin HY, Wang XM, Gao JH

NANOTECHNOLOGY	28(44)(2017) 445101	401
316. Plasmonic Enhancement of Cyanine Dyes for Near-Infrared Light-Triggered Photodynamic/Photothermal Therapy and Fluorescent Imaging	Lu MD, Kang N, Chen C, Yang LQ, Li Y, Hong MH, Luo XG, Ren L, Wang XM	
NANOTECHNOLOGY	28(44)(2017) 445710	402
317. A Breakthrough in Electrocatalysis of CO ₂ Conversion	Zhou ZY, Sun SG	
NATIONAL SCIENCE REVIEW	4(2)(2017) 155-156	403
318. Self-Supporting Sulfur Cathodes Enabled by Two-Dimensional Carbon Yolk-Shell Nanosheets for High-Energy-Density Lithium-Sulfur Batteries	Pei F, Lin LL, Ou DH, Zheng ZM, Mo SG, Fang XL, Zheng NF	
NATURE COMMUNICATIONS	8(2017) 482	405
319. Inflating Hollow Nanocrystals through a Repeated Kirkendall Cavitation Process	He TO, Wang WC, Yang XL, Cao ZM, Kuang Q, Wang Z, Shan ZW, Jin MS, Yin YD	
NATURE COMMUNICATIONS	8(2017) 1261	406
320. Divergent Synthesis of N-Heterocycles via Controllable Cyclization of Azido-Diynes Catalyzed by Copper and Gold	Shen WB, Sun Q, Li L, Liu X, Zhou B, Yan JZ, Lu X, Ye LW	
NATURE COMMUNICATIONS	8(2017) 1748	407
321. Multiyne Chains Chelating Osmium via Three Metal-Carbon Sigma Bonds	Zhuo QD, Lin JF, Hua YH, Zhou XX, Shao YF, Chen SY, Chen ZX, Zhu J, Zhang H, Xia HP	
NATURE COMMUNICATIONS	8(2017) 1912	408
322. Multiscale Structural and Electronic Control of Molybdenum Disulfide Foam for Highly Efficient Hydrogen Production	Deng J, Li HB, Wang SH, Ding D, Chen MS, Liu C, Tian ZQ, Novoselov KS, Ma C, Deng DH	
NATURE COMMUNICATIONS	8(2017) 14430	409
323. Plasmonic Photoluminescence for Recovering Native Chemical Information from Surface-Enhanced Raman Scattering	Lin KQ, Yi J, Zhong JH, Hu S, Liu BJ, Liu JY, Zong C, Lei ZC, Wang X, Aizpurua J	
NATURE COMMUNICATIONS	8(2017) 14891	410
324. Platinum-Nickel Alloy Excavated Nano-Multipods with Hexagonal Close-Packed Structure and Superior Activity Towards Hydrogen Evolution Reaction	Cao ZM, Chen QL, Zhang JW, Li HQ, Jiang YQ, Shen SY, Fu G, Lu BA, Xie ZX, Zheng LS	
NATURE COMMUNICATIONS	8(2017) 15131	411
325. Single-Molecule Detection of Dihydroazulene Photo-Thermal Reaction Using Break Junction Technique	Huang CC, Jevric M, Borges A, Olsen ST, Hamill JM, Zheng JT, Yang Y, Rudnev A, Baghernejad M, Broekmann P	
NATURE COMMUNICATIONS	8(2017) 15436	412
326. In Situ Dynamic Tracking of Heterogeneous Nanocatalytic Processes by shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy	Zhang H, Wang C, Sun HL, Fu G, Chen S, Zhang YJ, Chen BH, Anema JR, Yang ZL, Li JF	
NATURE COMMUNICATIONS	8(2017) 15447	413

327. Artificial Local Magnetic Field Inhomogeneity Enhances T_2 Relaxivity
 Zhou ZJ, Tian R, Wang ZY, Yang Z, Liu YJ, Liu G, Wang RF, Gao JH, Song JB, Nie LM
 NATURE COMMUNICATIONS 8(2017) 15468414
328. Reversible Multi-Electron Redox Chemistry of π -Conjugated N-Containing Heteroaromatic
 Molecule-Based Organic Cathodes
 Peng CX, Ning GH, Su J, Zhong GM, Tang W, Tian BB, Su CL, Yu DY, Zu LH, Yang JH
 NATURE ENERGY 2(7)(2017) 17074415
329. Probing the Electronic and Catalytic Properties of a Bimetallic Surface with 3 nm Resolution
 Zhong JH, Jin X, Meng LY, Wang X, Su HS, Yang ZL, Williams CT, Ren B
 NATURE NANOTECHNOLOGY 12(2)(2017) 132-136416
330. Interplay between Materials and Microfluidics
 Hou X, Zhang YS, Santiago GTD, Alvarez MM, Ribas J, Jonas SJ,
 Weiss PS, Andrews AM, Aizenberg J, Khademhosseini A
 NATURE REVIEWS MATERIALS 2(5)(2017) 17016417
331. Halide Assisted Formation of Polymeric Ethylenediaminetetraacetato Lead(II) Complexes
 Dai JW, Zheng JM, Li HY, Zhou JM, Dong X, Zhou ZH
 NEW JOURNAL OF CHEMISTRY 41(12)(2017) 5198-5204419
332. Preparation and Utilization of a sub-5 nm PbO₂ Colloid as an Excellent Co-Catalyst for Pt-
 Based Catalysts toward Ethanol Electro-Oxidation
 Yang WH, Zhang QH, Wang HH, Zhou ZY, Sun SG
 NEW JOURNAL OF CHEMISTRY 41(20)(2017) 12123-12130420
333. Stabilization of Peptides Against Proteolysis through Disulfide-Bridged Conjugation with
 Synthetic Aromatics
 Chen YQ, Li T, Li JG, Cheng SY, Wang JH, Verma C, Zhao YB, Wu CL
 ORGANIC & BIOMOLECULAR CHEMISTRY 15(8)(2017) 1921-1929421
334. Recent Advances in Transition-Metal-Catalyzed Reactions of Alkynes with Isoxazoles
 Li L, Tan TD, Zhang YQ, Liu X, Ye LW
 ORGANIC & BIOMOLECULAR CHEMISTRY 15(40)(2017) 8483-8492422
335. Synthesis of α -keto Imides through Copper-Catalyzed Oxidation of N-Sulfonyl Ynamides
 Liu X, Zhang ZX, Zhou B, Wang ZS, Zheng RH, Ye LW
 ORGANIC & BIOMOLECULAR CHEMISTRY 15(48)(2017) 10156-10159423
336. A Theoretical Study on the Mechanism of Ruthenium(II)-Catalyzed Phosphoryl-Directed Ortho-
 selective C-H Bond Activations: the Phosphoryl Hydroxy Group Triggered Ru(II)/Ru(0)
 Catalytic Cycle
 Chen P, Sun Y, Wu YL, Liu L, Zhu J, Zhao YF
 ORGANIC CHEMISTRY FRONTIERS 4(8)(2017) 1482-1492424
337. Direct Synthesis of Hydrazones by Visible Light Mediated Aerobic Oxidative Cleavage of the
 C=C Bond
 Ding Y, Li H, Meng YG, Zhang T, Li JW, Chen QY, Zhu CY
 ORGANIC CHEMISTRY FRONTIERS 4(8)(2017) 1611-1614425
338. Synthesis of 4H-1,3-Benzoxazines via Metal- and Oxidizing Reagent Free Aromatic C-H
 Oxygenation
 Xu F, Qian XY, Li YJ, Xu HC
 ORGANIC LETTERS 19(23)(2017) 6332-6335426

339. Craig-Type Mobius Aromaticity and Antiaromaticity in Dimetalla 10 annulenes: A Metal-Induced Yin-and-Yang Pair
An K, Shen T, Zhu J
ORGANOMETALLICS 36(17)(2017) 3199-3204427
340. Synthesis of Imidazopyridinium-Fused Metallacycloallene via One-Pot Reaction of η^2 -Alkynol-Coordinated Osmacycle with 2-Aminopyridine
Long LP, Zhou XX, Wang TD, Chen ZX, Zhang H, Xia HP
ORGANOMETALLICS 36(21)(2017) 4184-4190428
341. Color-Tuning Strategy for Iridapolycycles $[(N^{\wedge}N)Ir(C^{\wedge}C)CIPPh_3]^+$ by the Synergistic Modifications on Both the $C^{\wedge}C$ and $N^{\wedge}N$ Units
Huang ZA, Lan Q, Hua YH, Chen ZX, Zhang H, Lin ZY, Xia HP
ORGANOMETALLICS 36(24)(2017) 4802-4809429
342. To Be Bridgehead or Not to Be? This is a Question of Metallabicycles on the Interplay between Aromaticity and Ring Strain
Wu JJ, An K, Sun TT, Fan JL, Zhu J
ORGANOMETALLICS 36(24)(2017) 4896-4900430
343. Interaction between In Vivo Bioluminescence and Extracellular Electron Transfer in *Shewanella Woodyi* via Charge and Discharge
Tian XC, Zhao F, You LX, Wu XE, Zheng ZY, Wu RR, Jiang YX, Sun SG
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(3)(2017) 1746-1750431
344. The Driving Force for π -Bond Localization and Bond Alternation in Trisannulated Benzenes
Lin XH, Chen ZH, Wu W
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(4)(2017) 3019-3027432
345. An Insight into Methanol Oxidation Mechanisms on $RuO_2(100)$ under an Aqueous Environment by DFT Calculations
Sheng T, Ye JY, Lin WF, Sun SG
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(11)(2017) 7476-7480433
346. Probing the Bonding of CO to Heteronuclear Group 4 Metal-Nickel Clusters by Photoelectron Spectroscopy
Zou JH, Xie H, Yuan QQ, Zhang JM, Dai DX, Fan HJ, Tang ZC, Jiang L
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(15)(2017) 9790-9797434
347. Diels-Alder Reactions of Graphene Oxides: Greatly Enhanced Chemical Reactivity by Oxygen-Containing Groups
Tang SB, Wu WH, Liu LX, Cao ZX, Wei XX, Chen ZF
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(18)(2017) 11142-11151435
348. Multi-State Nonadiabatic Deactivation Mechanism of Coumarin Revealed by Ab Initio on-the-fly Trajectory Surface Hopping Dynamic Simulation
Gan YZ, Yue L, Guo XG, Zhu CY, Cao ZX
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(19)(2017) 12094-12106436
349. Dissection of H-Bonding Interactions in a Glycolic Acid-Water Dimer
Gu QL, Shen D, Tang Z, Wu W, Su PF, Xia Y, Yang ZJ, Trindle CO
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(22)(2017) 14238-14247437

350. Quantitative Probing of Subtle Interactions among H-Bonds in Alpha Hydroxy Carboxylic Acid Complexes
Gu QL, Su PF, Xia Y, Yang ZJ, Trindle CO, Knee JL
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(36)(2017) 24399-24411438
351. Unravelling Hydrogen Bonding Interactions of Tryptamine-Water Dimer from Neutral to Cation
Liu ZY, Trindle CO, Gu QL, Wu W, Su PF
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 19(37)(2017) 25260-25269439
352. Determining Potentials of Zero Charge of Metal Electrodes versus the Standard Hydrogen Electrode from Density-Functional-Theory-Based Molecular Dynamics
Le JB, Iannuzzi M, Cuesta A, Cheng J
PHYSICAL REVIEW LETTERS 119(1)(2017) 016801440
353. Hierarchical Ag-ZnO Microspheres with Enhanced Photocatalytic Degradation Activities
Wu HY, Jian WJ, Dang HF, Zhao XF, Zhang LZ, Li JH
POLISH JOURNAL OF ENVIRONMENTAL STUDIES 26(2)(2017) 871-880441
354. Degradations of Novel Tetranuclear Vanadyl Glycollates to Dinuclear Species
Jin WT, Li X, Zhou ZH
POLYHEDRON 122(2017) 99-104442
355. Amphipathic Metal-Containing Macromolecules with Photothermal Properties
He XM, He XH, Li SY, Zhuo KY, Qin WX, Dong SY, Chen JX, Ren L, Liu G, Xia HP
POLYMER CHEMISTRY 8(24)(2017) 3674-3678443
356. A Modified Ceramic-Coating Separator with High-Temperature Stability for Lithium-Ion Battery
Shi C, Dai JH, Li C, Shen X, Peng LQ, Zhang P, Wu DZ, Sun DH, Zhao JB
POLYMERS 9(5)(2017) 159444
357. Assembly of Silver Trigons into a Buckyball-Like Ag₁₈₀ Nanocag
Wang Z, Su HF, Tan YZ, Schein S, Lin SC, Liu W, Wang SA, Wang WG, Tung CH, Sun D
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 114(46)(2017) 12132-12137445
358. Band Gap Opening of Bilayer Graphene by Graphene Oxide Support Doping
Tang SB, Wu WH, Xie XJ, Li XK, Gu JJ
RSC ADVANCES 7(16)(2017) 9862-9871446
359. Silica Sub-Microspheres induce Autophagy in an Endocytosis Dependent Manner
Huang DT, Zhou HL, Gong XQ, Gao JH
RSC ADVANCES 7(21)(2017) 12496-12502447
360. Highly Dispersed CoOx in Layered Double Oxides for Oxidative Dehydrogenation of Propane: Guest-Host Interactions
Huang MX, Wu X, Yi XD, Han GB, Xia WS, Wan HL
RSC ADVANCES 7(24)(2017) 14846-14856448
361. High-efficiency Photoelectrochemical Hydrogen Generation Enabled by p-Type Semiconductor Nanoparticle-Decorated n-type Nanotube Arrays
Sun L, Wu Z, Xiang SW, Yu JD, Wang YY, Lin CJ, Lin ZQ
RSC ADVANCES 7(28)(2017) 17551-17558449

362. Antibacterial and Cytocompatible AgNPs Constructed with the Assistance of Mefp-1 for Orthopaedic Implants
Yang Y, Zhang YM, Hu R, Huang QL, Wu K, Zhang LH, Tang PF, Lin CJ
RSC ADVANCES 7(61)(2017) 38434-38443450
363. Structural Characterization and Electrochemical Performance of Macroporous Graphite-Like C₃N₃ Prepared by the Wurtz Reaction and Heat Treatment
Yin H, Guo QX, He DZ, Li JT, Sun SG
RSC ADVANCES 7(69)(2017) 44001-44008451
364. Si Nanorod Arrays Modified with Metal-Organic Segments as Anodes in Lithium Ion Batteries
Yu YJ, Yue C, Han YZ, Zhang CH, Zheng MS, Xu BB, Lin SC, Li J, Kang JY
RSC ADVANCES 7(85)(2017) 53680-53685452
365. Synthesis of Polymer Macrogels with Rapid and Significant Response to Glucose Concentration Changes
Xu WT, Lu F, Chen SM, Lin XZ, Zhou SM, Wu WT
RSC ADVANCES 7(88)(2017) 55945-55956453
366. Ultrastable Atomic Copper Nanosheets for Selective Electrochemical Reduction of Carbon Dioxide
Dai L, Qin Q, Wang P, Zhao XJ, Hu CY, Liu PX, Qin RX, Chen M, Ou DH, Xu CF
SCIENCE ADVANCES 3(9)(2017) e1701069454
367. Tip-Enhanced Ablation and Ionization Mass Spectrometry for Nanoscale Chemical Analysis
Liang ZS, Zhang SD, Li XP, Wang TT, Huang YP, Hang W, Yang ZL, Li JF, Tian ZQ
SCIENCE ADVANCES 3(12)(2017) eaaq1059455
368. Ring Strain Strategy for the Control of Regioselectivity. Gold-catalyzed Anti-markovnikov Cycloisomerization Initiated Tandem Reactions of Alkynes
Shu C, Li L, Tan TD, Yuan DQ, Ye LW
SCIENCE BULLETIN 62(5)(2017) 352-357456
369. Two-Dimensional Pd-Based Nanomaterials for Bioapplications
Chen XL, Shi SG, Wei JP, Chen M, Zheng NF
SCIENCE BULLETIN 62(8)(2017) 579-588457
370. Gold-Catalyzed Intermolecular Reaction of Ynamides with 3-Indolyl Azides via an Unexpected 1,2-Alkyl Migration
Zhou B, Zhang YQ, Liu X, Ye LW
SCIENCE BULLETIN 62(17)(2017) 1201-1206458
371. Surfactant Dependent Evolution of Au-Pd Alloy Nanocrystals from Trisoctahedron to Excavated Rhombic Dodecahedron and Multipod: A Matter of Crystal Growth Kinetics
Chen QL, Du GF, Dong YD, Cao ZM, Xie ZX, Zheng LS
SCIENCE BULLETIN 62(20)(2017) 1359-1364459
372. Target-Responsive DNAzyme Hydrogel for Portable Colorimetric Detection of Lanthanide(III) Ions
Huang YS, Wu XM, Tian T, Zhu Z, Lin H, Yang CY
SCIENCE CHINA-CHEMISTRY 60(2)(2017) 293-298460
373. Nanofabrication of the Gold Scanning Probe for the STM-SECM Coupling System with Nanoscale Spatial Resolution
Wang FF, Wang W, He X, Han LH, Zhou JZ, Tian ZQ, Tian ZW, Zhan DP

SCIENCE CHINA-CHEMISTRY	60(5)(2017)	649-655	.....	461
374. Special Topic on Strategies for Developing Energy-Related Physical Chemistry				
Tian ZQ, Zheng NF				
SCIENCE CHINA-CHEMISTRY	60(11)(2017)	1377-1378	.....	462
375. Reaction Coupling as a Promising Methodology for Selective Conversion of Syngas into Hydrocarbons Beyond Fischer-Tropsch Synthesis				
Cheng K, Kang JC, Zhang QH, Wang Y				
SCIENCE CHINA-CHEMISTRY	60(11)(2017)	1382-1385	.....	463
376. Air-Promoted Selective Hydrogenation of Phenol to Cyclohexanone at Low Temperature over Pd-Based Nanocatalysts				
Guo Q, Mo SG, Liu PX, Zheng WD, Qin RX, Xu CF, Wu YYQ, Wu BH, Zheng NF				
SCIENCE CHINA-CHEMISTRY	60(11)(2017)	1444-1449	.....	464
377. Synthesis of Single-Crystal Hyperbranched Rhodium Nanoplates with Remarkable Catalytic Properties				
Zhang JW, Chen MS, Chen JY, Li HQ, Wang SH, Kuang Q, Cao ZM, Xie ZX				
SCIENCE CHINA-MATERIALS	60(8)(2017)	685-696	.....	465
378. Magneto-Photocurrent Multibands of V_4O_{12} and Fe_5IO_7 Micro-Films				
Wu Y, Fu H, Quan HY, Lin YC, Xu J				
SCIENCE OF ADVANCED MATERIALS	9(11)(2017)	1882-1887	.....	466
379. CH_2 Linkage Effects on the Reactivity of Bis(aminophosphine)-Ruthenium Complexes for Selective Hydrogenation of Esters into Alcohols				
Fang XL, Sun MJ, Zheng JW, Li B, Ye LM, Wang XP, Cao ZX, Zhu HP, Yuan YZ				
SCIENTIFIC REPORTS	7(2017)	3961	.....	467
380. High Sulfur-Containing Carbon Polysulfide Polymer as a Novel Cathode Material for Lithium-Sulfur Battery				
Zhang YY, Peng YY, Wang YH, Li JY, Li H, Zeng J, Wang J, Hwang BJ, Zhao JB				
SCIENTIFIC REPORTS	7(2017)	11386	.....	468
381. The Use of Microfluidic Spinning Fiber as an Ophthalmology Suture Showing the Good Anastomotic Strength Control				
Park D, Yong IS, Cho KJ, Cheng J, Jung Y, Kim SH, Lee SH				
SCIENTIFIC REPORTS	7(2017)	16264	.....	469
382. Integration of Thermocouple Microelectrode in the Scanning Electrochemical Microscope at Variable Temperatures: Simultaneous Temperature and Electrochemical Imaging and Its Kinetic Studies				
Pan H, Zhang HL, Lai JH, Gu XX, Sun JJ, Tang J, Jin T				
SCIENTIFIC REPORTS	7(2017)	43685	.....	470
383. Detecting Electron Transport of Amino Acids by Using Conductance Measurement				
Li WQ, Huang B, Huang ML, Peng LL, Hong ZW, Zheng JF, Chen WB, Li JF, Zhou XS				
SENSORS	17(4)(2017)	811	.....	471
384. Plasmon-Enhanced Spectroscopies with Shell-Isolated Nanoparticles				
Li CY, Yang ZW, Dong JC, Ganguly T, Li JF				
SMALL	13(8)(2017)	1601598	.....	472

385. Self- Supported D₃ PdCu Alloy Nanosheets as a Bifunctional Catalyst for Electrochemical Reforming of Ethanol
Zhao XJ, Dai L, Qin Q, Pei F, Hu CY, Zheng NF
SMALL 13(12)(2017) 1602970473
386. Ternary Alloys Encapsulated within Different MOFs via a Self-Sacrificing Template Process: A Potential Platform for the Investigation of Size-Selective Catalytic Performances
Chen LN, Li HQ, Yan MW, Yuan CF, Zhan WW, Jiang YQ, Xie ZX, Kuang Q, Zheng LS
SMALL 13(33)(2017) 1700683474
387. A Further Insight into the Adsorption Mechanism of Protein on Hydroxyapatite by FTIR-ATR Spectrometry
Lin ZY, Ren H, Zhou JZ, Ye YW, Xu ZX, Lin CJ
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY 173(2017) 527-531475
388. Tunable Excited-State Intramolecular Proton Transfer Reactions with N-H or O-H as a Proton Donor: A Theoretical Investigation
Li YY, Wen KK, Feng SY, Yuan HJ, An BB, Zhu QL, Guo XG, Zhang JL
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY 187(2017) 9-14476
389. Insight into the Anti-Corrosion Performance of Electrodeposited Silane/Nano-CeO₂ Film on Carbon Steel
Chen CD, Dong SG, Hou RQ, Hu J, Jiang PL, Ye CQ, Du RG, Lin CJ
SURFACE & COATINGS TECHNOLOGY 326(2017) 183-191477
390. Molecular-Scale Observation of YD2-o-C8 Self-Assembled Monolayer on TiO₂ (110)
Li YJ, Sun L, Jiang L, Zhou Q, Ma ZB, Yang XM, Deng WQ
SURFACE SCIENCE 665(2017) 103-107478
391. Recent Advances in Quantum Dot-Sensitized Solar Cells: Insights into Photoanodes, Sensitizers, Electrolytes and Counter Electrodes
Ye MD, Gao XY, Hong XD, Liu Q, He CY, Liu XY, Lin CJ
SUSTAINABLE ENERGY & FUELS 1(6)(2017) 1217-1231479
392. Recent Progress on the Synthesis of (Aza)indoles through Oxidative Alkyne Annulation Reactions
Hou ZW, Mao ZY, Xu HC
SYNLETT 28(15)(2017) 1867-1872480
393. Recent Advances in Dual Visible Light Photoredox and Gold-Catalyzed Reactions
Zhang M, Zhu CY, Ye LW
SYNTHESIS-STUTTGART 49(6)(2017) 1150-1157481

B 类国内论文

1. Synthesis and Electrochemical Performance of Lithium Rich Cathode Materials $x\text{Li}_3\text{NbO}_4 \cdot (1-x)\text{LiMO}_2$ ($M=\text{Mn, Co}$; $0 < x < 1$) for Li-ion Batteries
Yang C, Gong ZL, Zhao WG, Yang Y
ACTA CHIMICA SINICA 75(2)(2017) 212-217
2. Galvanic Effect Between Galvanized Steel and Carbon Fiber Reinforced Polymers
Zhang C, Zheng DJ, Song GL
ACTA METALLURGICA SINICA-ENGLISH LETTERS 30(4)(2017) 342-351
3. Deposition and Inhibition of Cu on TiO_2 Nanotube Photoelectrode in Photoinduced Confined Etching System
Huang YY, Fang QY, Zhou JZ, Zhan DP, Shi K, Tian ZQ
ACTA PHYSICO-CHIMICA SINICA 33(10)(2017) 2042-+
4. Effect of Preparation Methods on Photo-Induced Formation of Peroxide Species on Nd_2O_3
Wu Q, Weng WZ, Liu CL, Huang CJ, Xia WS, Wan HL
ACTA PHYSICO-CHIMICA SINICA 33(10)(2017) 2064-2071
5. Reduced Graphene Oxide- LaFeO_3 Composite Nanomaterials as Bifunctional Catalyst for Rechargeable Lithium-Oxygen Batteries
Zhang XR, Xu YF, Shen SY, Chen Y, Huang L, Li JT, Sun SG
ACTA PHYSICO-CHIMICA SINICA 33(11)(2017) 2237-2244
6. Direct Conversion of CO_2 into Liquid Fuels with High Selectivity
Wang Y
ACTA PHYSICO-CHIMICA SINICA 33(12)(2017) 2319-2320
7. Photoelectrochemical Reduction of CO_2 over Graphene-Based Composites: Basic Principle, Recent Progress, and Future Perspective
Quan Q, Xie SJ, Wang Y, Xu YJ
ACTA PHYSICO-CHIMICA SINICA 33(12)(2017) 2404-2423
8. Toward Understanding the Nature of the Active Sites and Structure-Activity Relationships of Heterogeneous Catalysts by Model Catalysis Studies
Chen MS
ACTA PHYSICO-CHIMICA SINICA 33(12)(2017) 2424-2437
9. Density Functional Theoretical Study on SERS Chemical Enhancement Mechanism of 4-Mercaptopyridine Adsorbed on Silver
Wu YF, Li MX, Zhou JZ, Wu DY, Tian ZQ
ACTA PHYSICO-CHIMICA SINICA 33(3)(2017) 530-538
10. Preparation and Characterization of Pt-Ni- SnO_2/C for Ethanol Oxidation Reaction
Huang MH, Jin BY, Zhao LH, Sun SG
ACTA PHYSICO-CHIMICA SINICA 33(3)(2017) 563-572
11. Catalytic Hydrogenation of CO_2 to Methanol via MOF-Confined Ultrasmall Cu/ ZnO_x Nanoparticles
Wang Y
ACTA PHYSICO-CHIMICA SINICA 33(5)(2017) 857-858

12. Preparation and Characterization of Sinter-Resistant RhSm₂O₃/SiO₂ Catalyst and Its Performance for Partial Oxidation of Methane to Syngas
Zheng FF, Li Q, Zhang H, Weng WZ, Yi XD, Zheng YP, Huang CJ, Wan HL
ACTA PHYSICO-CHIMICA SINICA 33(8)(2017) 1689-1698
13. Experimental Boosting of the Oxygen Reduction Activity of an Fe/N/C Catalyst by Sulfur Doping and Density Functional Theory Calculations
Chen C, Zhang X, Zhou ZY, Zhang XS, Sun SG
ACTA PHYSICO-CHIMICA SINICA 33(9)(2017) 1875-1883
14. Polyethylene Glycol Phospholipids Encapsulated Silicon 2,3-Naphthalocyanine Dihydroxide Nanoparticles (SiNcOH-DSPE-PEG(NH₂) NPs) for Single NIR Laser Induced Cancer Combination Therapy
Wei JP, Chen XL, Wang XY, Li JC, Shi SG, Liu G, Zheng NF
CHINESE CHEMICAL LETTERS 28(6)(2017) 1290-1299
15. Fe, N, S-Doped Porous Carbon as Oxygen Reduction Reaction Catalyst in Acidic Medium with High Activity and Durability Synthesized Using CaCl₂ as Template
Chen C, Zhou ZY, Wang YC, Zhang X, Yang XD, Zhang XS, Sun SG
CHINESE JOURNAL OF CATALYSIS 38(4)(2017) 673-682
16. The Effect of the Support on the Surface Composition of PtCu Alloy Nanocatalysts: In situ XPS and HS-LEIS Studies
Huang JJ, Song YY, Ma DD, Zheng YP, Chen MS, Wan HL
CHINESE JOURNAL OF CATALYSIS 38(7)(2017) 1229-1236
17. Photochemical Route for Preparing Atomically Dispersed Pd-1/TiO₂ Catalysts on (001)-Exposed Anatase Nanocrystals and P25
Liu PX, Chen J, Zheng NF
CHINESE JOURNAL OF CATALYSIS 38(9)(2017) 1574-1580
18. Synthesis and Characterization of Osmium Polycyclic Aromatic Complexes via Nucleophilic Reactions of Osmapentalyne
Zhu Q, Zhu CQ, Deng ZH, He GM, Chen JX, Zhu J, Xia HP
CHINESE JOURNAL OF CHEMISTRY 35(5)(2017) 628-634
19. Tuning Order-Disorder Phase Transition through Regulating the Substituent Group of Anion
Li D, Chen LH, Zhao HX, Long LH, Zheng LS
CHINESE JOURNAL OF CHEMISTRY 35(6)(2017) 957-963
20. Effect of Loading Content of Silver on Lithium Storage for TiO₂ Net-Work Flexible Film Electrode
Zhang YJ, Liu HM, Zhao JB, Huang L, Li X
CHINESE JOURNAL OF INORGANIC CHEMISTRY 33(5)(2017) 809-816
21. Advances for the Ruthenium Complexes-Based Homogeneous Catalytic Hydrogenation of Oxalates to Ethylene Glycol
Zhang YW, Chen YL, Fang XL, Yuan YZ, Zhu HP
CHINESE JOURNAL OF ORGANIC CHEMISTRY 37(9)(2017) 2275-2286
22. Selective Ethylene Oligomerization Catalyzed by the Chromium Complex Bearing N-Tetrahydrofurfuryl PNP Ligand
Liu R, Zhong XH, Liu ZY, Liang SB, Zhu HP
CHINESE JOURNAL OF ORGANIC CHEMISTRY 37(9)(2017) 2315-2321

23. Polyaniline-Supported Iron Catalyst for Selective Synthesis of Lower Olefins from Syngas
Gu B, He S, Zhou W, Kang JC, Cheng K, Zhang QH, Wang Y
JOURNAL OF ENERGY CHEMISTRY 26(4)(2017) 608-615
24. Water Effect on Band Alignment of GaP: A Theoretical Insight into Pyridinium Catalyzed CO₂ Reduction
Fan XT, Jia M, Lee MH, Cheng J
JOURNAL OF ENERGY CHEMISTRY 26(4)(2017) 724-729
25. Yttrium Chloride-Modified Au/AC Catalysts for Acetylene Hydrochlorination with Improved Activity and Stability
Ke JH, Zhao YX, Yin Y, Chen K, Duan XP, Ye LM, Yuan YZ
JOURNAL OF RARE EARTHS 35(11)(2017) 1083-1091
26. Surface-Enhanced Raman Spectroscopy for Rapid Detection of Uric Acid in the Urine
Zheng B, Wen BY, Su LZ, Zhang H, Li JF
SPECTROSCOPY AND SPECTRAL ANALYSIS 37(6)(2017) 1789-1792
27. Electrochemical Nucleation of Invar Alloy on Glassy Carbon Electrode
Huang XJ, Yan H, Huang SS, Yang FZ, Tian ZQ, Zhou SM
JOURNAL OF ELECTROCHEMISTRY 23(1)(2017) 43293
28. Rutile TiO₂ Nanosheet Arrays Planted on Magnetron Sputtered Ti Metal Layers for Efficient Perovskite Solar Cells
Zhang N, Ye MD, Wen XR, Lin CJ
JOURNAL OF ELECTROCHEMISTRY 23(2)(2017) 226-237
29. Preface for Special Issue on Theoretical and Computational Electrochemistry
Cheng J
JOURNAL OF ELECTROCHEMISTRY 23(4)(2017) 369-370
30. Thermo-Stability and Active Site Structure of Fe/N/C Electrocatalyst for Oxygen Reduction Reaction
Chen C, Lai YJ, Zhou ZY, Zhang XS, Sun SG
JOURNAL OF ELECTROCHEMISTRY 23(4)(2017) 400-408
31. Two-Dimensional Materials for Electrocatalytic Water Splitting
Meng XY, Deng DH
CHINESE SCIENCE BULLETIN 62(27)(2017) 3154-3174
32. Synthesis and Thermal Conductivity of Montmorillonite/Graphene/Poly(vinyl alcohol) Composite Films
Zhu SJ, Deng SL, Xie SY
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 56(4)(2017) 474-480
33. Highly Efficient Pd-B-P/C Catalyst for Decomposition of Formic Acid
Chen T, Zhang LY, Zhang HB, Li HY
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 56(6)(2017) 817-822
34. Synthesis, Magnetic Properties and Mössbauer Spectra of a Dimeric Spin-Crossover Complex
Shi HY, Wei RJ, Tao J
JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE) 56(3)(2017)359-363
35. Synthesis, Structure, Magnetic Properties of Lanthanide Cluster-Based Metal-Organic Frameworks

Zheng XY, Kong XJ, Long LS, Zheng LS
CHINESE JOURNAL OF APPLIED CHEMISTRY 34(9)(2017) 1086-1092

36. Recent Advances in Biological-Environment-Responsive Smart MRI Contrast Agents
Sun CJ, Lin HY, Gao JH
SCIENTIA SINICA CHIMICA 47(2)(2017) 119-132
37. Surface Structure-Controlled Synthesis of Nanocrystals through Supersaturation Dependent Growth Strategy
Zhang JW, Chen QL, Cao ZM, Kuang Q, Lin HQ, Xie ZX
SCIENTIA SINICA CHIMICA 47(5)(2017) 507-516
38. A Review of Inorganic Solid Electrolyte/Electrode Interface in All-Solid-State Lithium Batteries
Zheng BZ, Wang HC, Ma JL, Gong ZL, Yang Y
SCIENTIA SINICA CHIMICA 47(5)(2017) 579-593
39. Research Advances of Electrochemical Micro/Nanofabrication Based on Confined Etchant Layer Technique
Han LH, He QF, Zhao XS, Cao YZ, Hu ZJ, Yan YD, Tian ZW, Zhan DP
SCIENTIA SINICA CHIMICA 47(5)(2017) 594-602
40. MnO/Nitrogen-Doped Graphene Composite Cathode for High Performance Lithium Oxygen Batteries
Lei M, Cao Y, Lin XD, Yang XL, Cai SR, Yuan RM, Zheng MS, Dong QF
SCIENTIA SINICA CHIMICA 47(5)(2017) 663-670
41. Electrochemically Shape-Controlled Formation of Concave AuPd Alloy Nanoparticles on ITO Substrate
Liu T, Huang R, Liu S, Sun SG
SCIENTIA SINICA CHIMICA 47(5)(2017) 671-675
42. Bio-Imaging with a Group of Acid-Responsive Fluorescence-on Probes
Liu J, Xue ZW, Zhao H, Han JH, Han SF
SCIENTIA SINICA CHIMICA 47(8)(2017) 973-985
43. Applications of Scanning Electrochemical Microscopy in Photoelectrochemistry
Xin SL, Sun Y, Yuan D, Li F, Zhan DP
SCIENTIA SINICA CHIMICA 47(9)(2017) 1085-1101