

固体表面物理化学国家重点实验室

2020 年报论文目录

A 类 专著章节与代表性研究论文

专著章节

1. Advances in Quantum Chemistry: Chemical Physics and Quantum Chemistry
Pavlo O. Dral
Eds. Academic Press, ISBN: 978-0-12-819757-8, 291-324 (2020)
2. Advances in Catalysis: Chapter One - Catalytic Valorization of Biomass and Bioplatfroms to Chemicals through Deoxygenation
Yan LF, Zhang QH, Deng WP, Zhang QH, Wang Y
Elsevier, ISSN: 0360-0564, 1-108 (2020)
3. Advances in Organometallic Chemistry: Chapter Three - Synthesis of Nitrogen-Containing Molecules via Transition Metal-Catalyzed Reactions on Isoxazoles, Anthranils and Benzoisoxazoles
Sahani RL, Ye LW, Liu RS
Elsevier,ISSN:0065-3055, 195-251 (2020)

代表性研究论文

1. Controlling the Oxidation State of Fe-Based Catalysts through Nitrogen Doping toward the Hydrodeoxygenation of m-Cresol
Yang YL, Tan MW, Garcia AD, Zhang ZX, Lin JD, Wan SL, McEwen JS, Wang S, Wang Y
ACS CATALYSIS 10(14)(2020) 7884-7893..... 10
2. Ultrasound-Switchable Nanozyme Augments Sonodynamic Therapy against Multidrug-Resistant Bacterial Infection
Sun D, Pang X, Cheng Y, Ming J, Xiang SJ, Zhang C, Lv P, Chu CC, Chen XL, Liu G, Zheng NF
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3. Metallic Liquid Gating Membranes
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4. Highly Reversible O₂ Conversions by Coupling LiO₂ Intermediate through a Dual-Site Catalyst in Li-O₂ Batteries
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5. An Unusual and Facile Synthetic Route to Alumoles
Li JC, Wu P, Jiang WJ, Li B, Wang BJ, Zhu HP, Roesky HW
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6. The Mechanism of the Magnetodielectric Response in a Molecule-Based Trinuclear Iron Cluster Material
Li D, Wang X, Zhao HX, Ren YP, Zhuang GL, Long LS, Zheng LS
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 59(34)(2020) 14409-14413..... 10
7. Construction of Highly Active Metal-Containing Nanoparticles and FeCo-N₄ Composite Sites for the Acidic Oxygen Reduction Reaction
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8. Plasmon-Induced Interfacial Hot-Electron Transfer Directly Probed by Raman Spectroscopy
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9. A Fluorinated Ionic Liquid-Based Activatable ¹⁹F MRI Platform Detects Biological Targets
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CHEM 6(5)(2020) 1134-1148..... 10
10. Evaluating Solid-Electrolyte Interphases for Lithium and Lithium-free Anodes from Nanoindentation Features
Wang WW, Gu Y, Yang H, Li S, He JW, Xu HY, Wu QH, Yan JW, Mao BW
CHEM 6(10)(2020) 2728-2745..... 10
11. Identifying the Conformational Isomers of Single-Molecule Cyclohexane at Room Temperature
Tang C, Tang YX, Ye YL, Yan ZW, Chen ZX, Chen LJ, Zhang LY, Liu JY, Shi J, Xia HP, Hong WJ
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12. Selectivity Control in Photocatalytic Valorization of Biomass-Derived Platform Compounds by Surface Engineering of Titanium Oxide
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13. Highly-Stable P2-Na_{0.67}MnO₂ Electrode Enabled by Lattice Tailoring and Surface Engineering
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15. Hierarchical Machine Learning of Potential Energy Surfaces
Dral PO, Owens A, Dral A, Csanyi G
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16. Effect of Charge-Transfer States on the Vibrationally Resolved Absorption Spectra and Exciton Dynamics in ZnPc Aggregates: Simulations from a Non-Markovian Stochastic Schrodinger Equation
Feng SS, Wang YC, Ke YL, Liang WZ, Zhao Y
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17. Quantum Chemistry in the Age of Machine Learning
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18. A Novel Valence-Bond-Based Automatic Diabatization Method by Compression
Zhang Y, Su PF, Lasorne B, Braida B, Wu W
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19. How the Structures and Properties of Pristine and Anion Vacancy Defective Organic-Inorganic Hybrid Double Perovskites $MA_2AgIn(Br_xI_{1-x})_6$ Vary with Br Content x
Liu Q, Liang WZ
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20. Direct In Situ Raman Spectroscopic Evidence of Oxygen Reduction Reaction Intermediates at High-Index Pt(hkl) Surfaces
Dong JC, Su M, Briega-Martos V, Li L, Le JB, Radjenovic P, Zhou XS, Feliu JM, Tian ZQ, Li JF
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21. Methylamine-Dimer-Induced Phase Transition toward MAPbI₃ Films and High-Efficiency Perovskite Solar Modules
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22. Photosynergetic Electrochemical Synthesis of Graphene Oxide
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23. Copper-Catalyzed Asymmetric Reaction of Alkenyl Dienes with Styrenes by Formal [3+2] Cycloaddition via Cu-Containing AllCarbon 1,3-Dipoles: Access to Chiral Pyrrole-Fused Bridged [2.2.1] Skeletons

- Hong FL, Chen YB, Ye SH, Zhu GY, Zhu XQ, Lu X, Liu RS, Ye LW
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24. Revisiting the Atomistic Structures at the Interface of Au(111) Electrode-Sulfuric Acid Solution
Fang Y, Ding SY, Zhang M, Steinmann SN, Hu R, Mao BW, Feliu JM, Tian ZQ
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25. Determining the Interfacial Refractive Index via Ultrasensitive Plasmonic Sensors
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26. Critical Roles of Doping Cl on Cu₂O Nanocrystals for Direct Epoxidation of Propylene by
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Zhan C, Wang QX, Zhou LY, Han X, Wanyan YY,
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Qu H, Huang ZY, Dong X, Wang XC, Tang X, Li ZH, Gao WB,
Liu HL, Huang RS, Zhao ZJ, Zhang H, Yang LL, Tian ZQ, Cao XY
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28. Plasmonic Hot Electron-Mediated Hydrodehalogenation Kinetics on Nanostructured Ag
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Liu J, Cai ZY, Sun WX, Wang JZ, Shen XR, Zhan C,
Devasenathipathy R, Zhou JZ, Wu DY, Mao BW, Tian ZQ
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 142(41)(2020) 17489-17498..... 12
29. Electric Field-Induced Assembly in Single-Stacking Terphenyl Junctions
Tang YX, Zhou Y, Zhou DH, Chen YR, Xiao ZY, Shi J, Liu JY, Hong WJ
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30. Tunable Cobalt-Polypyridyl Catalysts Supported on Metal-Organic Layers for Electrochemical
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Guo Y, Wang YC, Shen Y, Cai ZY, Li Z, Liu J, Chen JW, Xiao C, Liu HC, Lin WB, Wang C
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31. Biomimetic Micro Cell Cathode for High Performance Lithium-Sulfur Batteries
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32. Surface Coordination Layer Passivates Oxidation of Copper
Peng J, Chen BL, Wang ZC, Guo J, Wu BH, Hao SQ, Zhang QH, Gu L, Zhou Q, Liu Z,
Hong SQ, You SF, Fu A, Shi ZF, Xie H, Cao DY, Lin CJ, Fu G, Zheng LS, Jiang Y, Zheng NF

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33. Electrocatalytic Reduction of CO₂ to Ethylene and Ethanol through Hydrogen-Assisted C-C Coupling over Fluorine-Modified Copper
Ma WC, Xie SJ, Liu TT, Fan QY, Ye JY, Sun FF, Jiang Z, Zhang QH, Cheng J, Wang Y
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34. Alkali Ions Secure Hydrides for Catalytic Hydrogenation
Qin RX, Zhou LY, Liu PX, Gong Y, Liu KL, Xu CF, Zhao Y, Gu L, Fu G, Zheng NF
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35. Single-Pass Transformation of Syngas into Ethanol with High Selectivity by Triple Tandem Catalysis
Kang JC, He S, Zhou W, Shen Z, Li YY, Chen MS, Zhang QH, Wang Y
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36. Highly Parallel and Efficient Single Cell mRNA Sequencing with Paired Picoliter Chambers
Zhang MX, Zou Y, Xu X, Zhang XB, Gao MX, Song J, Huang PF, Chen Q, Zhu Z, Lin W, Zare RN, Yang CY
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37. Observing Atomic Layer Electrodeposition on Single Nanocrystals Surface by Dark Field Spectroscopy
Hu S, Yi J, Zhang YJ, Lin KQ, Liu BJ, Chen L, Zhan C, Lei ZC, Sun JJ, Zong C, Li JF, Ren B
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38. Site-Selective Electrooxidation of Methylarenes to Aromatic Acetals
Xiong P, Zhao HB, Fan XT, Jie LH, Long H, Xu P, Liu ZJ, Wu ZJ, Cheng J, Xu HC
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39. Synthesis and Assembly of Extended Quintulene
Hou H, Zhao XJ, Tang C, Ju YY, Deng ZY, Wang XR, Feng LB, Lin DH, Hou X, Narita A, Mullen K, Tan YZ
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40. Probing Nanoscale Spatial Distribution of Plasmonically Excited Hot Carriers
Huang SC, Wang X, Zhao QQ, Zhu JF, Li CW, He YH, Hu S, Sartin MM, Yan S, Ren B
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41. Direct Conversion of Methane to Formaldehyde and CO on B₂O₃ Catalysts
Tian JS, Tan JQ, Zhang ZX, Han PJ, Yin M, Wan SL, Lin JD, Wang S, Wang Y
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42. Facet Engineering Accelerates Spillover Hydrogenation on Highly Diluted Metal Nanocatalysts
Jiang LZ, Liu KL, Hung SF, Zhou LY, Qin RX,

- Zhang QH, Liu PX, Gu L, Chen HM, Fu G, Zheng NF
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43. Visualizing the Growth Process of Sodium Microstructures in Sodium Batteries by In-Situ ²³Na MRI and NMR Spectroscopy
 Xiang YX, Zheng GR, Liang ZT, Jin YT, Liu XS, Chen SJ, Zhou K, Zhu JP, Lin M, He HJ, Wan JJ, Yu SS, Zhong GM, Fu RQ, Li YX, Yang Y
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44. Observation of Inhomogeneous Plasmonic Field Distribution in A Nanocavity
 Li CY, Duan S, Wen BY, Li SB, Kathiresan M, Xie LQ, Chen S, Anema JR, Mao BW, Luo Y, Tian ZQ, Li JF
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45. Polarization- and Wavelength-Dependent Shell-Isolated-Nanoparticle-Enhanced Sum-Frequency Generation with High Sensitivity
 He YH, Ren H, You EM, Radjenovic PM, Sun SG, Tian ZQ, Li JF, Wang ZH
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46. Molecular Defect-Containing Bilayer Graphene Exhibiting Brightened Luminescence
 Zhao XJ, Hou H, Ding PP, Deng ZY, Ju YY, Liu SH, Liu YM, Tang C, Feng LB, Tan YZ
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47. Cross-Plane Transport in A Single-Molecule Two-Dimensional van der Waals Heterojunction
 Zhao SQ, Wu QQ, Pi JC, Liu JY, Zheng JT, Hou SJ, Wei JY, Li RH, Sadeghi H, Yang Y, Shi J, Chen ZB, Xiao ZY, Lambert C, Hong WJ
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48. Selective Methylation of Toluene Using CO₂ and H₂ to Para-Xylene
 Zuo JC, Chen WK, Liu J, Duan XP, Ye LM, Yuan YZ
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49. Bioinspired Liquid Gating Membrane-Based Catheter with Anticoagulation and Positionally Drug Release Properties
 Wang CY, Wang SL, Pan H, Min LL, Zheng HL, Zhu H, Liu G, Yang WZ, Chen XY, Hou X
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50. Molecular Origin of Negative Component of Helmholtz Capacitance at Electrified Pt(111)/Water Interface
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B类 其它研究论文

1. Core-Shell Nanostructure-Enhanced Raman Spectroscopy for Surface Catalysis
Zhang H, Duan S, Radjenovic PM, Tian ZQ, Li JF
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2. Transition Metal-Catalyzed Tandem Reactions of Ynamides for Divergent N-Heterocycle Synthesis
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3. Optimized Cytocompatibility and Antimicrobial Activity of Octacalcium Phosphate/-Polylysine Composite Coating Electrochemically Codeposited on Medical Titanium
Hu J, Zhang Y, Fan L, Yang Y, Hu R, Huang Q, Rui G, Lin C
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6. Scaling up DNA Self-Assembly
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7. One-Step Exfoliation/Etching Method to Produce Chitosan-Stabilized Holey Graphene Nanosheets for Superior DNA Adsorption
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9. Opening the Cobalt/Platinum Hollow Nanospheres by Photoelectrocatalysis To Efficiently Utilize the Inside and Outside for HER
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16. Tuning Oxygen Redox Reaction through the Inductive Effect with Proton Insertion in Li-Rich Oxides
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17. Simple Transformation of Covalent Organic Frameworks to Highly Proton-Conductive Electrolytes
Zhou B, Le JB, Cheng ZY, Zhao X, Shen M, Xie ML, Hu BW, Yang XD, Chen LW, Chen HW
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18. Tumor-Specific Endogenous Fe^{II} -Activated, MRI-Guided Self-Targeting Gadolinium-Coordinated Theranostic Nanoplatforms for Amplification of ROS and Enhanced Chemodynamic Chemotherapy
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19. An Innovative Lithium Ion Battery System Based on a Cu₂S Anode Material
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 20. Highly Dispersed Ni Catalyst on Metal-Organic Framework-Derived Porous Hydrous Zirconia for CO₂ Methanation
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 21. Hybrid Fullerene-Based Electron Transport Layers Improving the Thermal Stability of Perovskite Solar Cells
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 22. Hierarchically Porous Carbons Derived from Nonporous Coordination Polymers
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 23. Spatial Ensembles of Copper-Silica with Carbon Nanotubes as Ultrastable Nanostructured Catalysts for Selective Hydrogenation
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 25. Revisiting the Stability of the Cr⁴⁺/Cr³⁺ Redox Couple in Sodium Superionic Conductor Compounds
Zhang JS, Liang GS, Wang C, Lin CF, Chen JJ, Zhang ZR, Zhao XS
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 27. Mixed Fullerene Electron Transport Layers with Fluorocarbon Chains Assembling on the Surface: A Moisture-Resistant Coverage for Perovskite Solar Cells

- Xing Z, Li SH, Xie FF, Xu PY, Deng LL, Zhong XX, Xie SY
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28. Uniform Periodic Bowtie SERS Substrate with Narrow Nanogaps Obtained by Monitored Pulsed Electrodeposition
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29. Biomimetic Metal-Organic Framework Composite-Mediated Cascade Catalysis for Synergistic Bacteria Killing
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30. Transient Evolution of the Built-in Field at Junctions of GaAs
Chen XH, Pekarek RT, Gu J, Zakutayev A, Hurst KE, Neale NR, Yang Y, Beard MC
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31. Mn⁴⁺-Substituted Li-Rich Li_{1.2}Mn_{0.4}³⁺Mn_x⁴⁺Ti_{0.4-x}O₂ Materials with High Energy Density
Zheng SY, Zhou K, Zheng F, Liu HD, Zhong GM, Zuo WH, Xu NB,
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32. Cubic MnS-FeS₂ Composites Derived from a Prussian Blue Analogue as Anode Materials for Sodium-Ion Batteries with Long-Term Cycle Stability
Liu Q, Zhang SJ, Xiang CC, Luo CX, Zhang PF, Shi CG, Zhou Y, Li JT, Huang L, Sun SG
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33. On the Interface Design of Si and Multilayer Graphene for a High-Performance Li-Ion Battery Anode
Han X, Zhang ZQ, Chen HX, Zhang QB, Chen SY, Yang Y
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34. Germanium Crystalline Nanomaterials for Li-Ion Storage Prepared by Decomposing LiZnGe in Air
Liu C, He YQ, Deng L, Li JT, Sun SG, Liu XC, Tan WJ, Li B, Xia SQ
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35. Pd@Pt-GO_x/HA as a Novel Enzymatic Cascade Nanoreactor for High-Efficiency Starving-Enhanced Chemodynamic Cancer Therapy
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36. Optimizing the Electronic Structure of In₂O₃ through Mg Doping for NiO/In₂O₃ p-n Heterojunction Diodes
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37. Plasmon-Enhanced Fluorescence of Phosphors Using Shell-Isolated Nanoparticles for Display Technologies
You CY, Lin LH, Wang JY, Zhang FL, Radjenovic PM, Yang ZL, Tian ZQ, Li JF
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38. Stable Surface-Anchored Cu Nanocubes for CO₂ Electroreduction to Ethylene
Kuang SY, Li ML, Xia R, Xing L, Su YQ, Fan Q, Liu JP, Hensen EJM, Ma XB, Zhang S
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39. Porosity-Tunable Structures with "Fossilized" Bubbles
Wang L, Wang M, Wan GC, Guo X, Xie XW, Liu W, Zhang YM, Fan J, Hou X, Chen Z
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