

2019 年度重点实验室完成的主要论文

序号	论文题目	刊物名称	年、卷、期、页	通讯作者	备注
1	Embedding Laser Generated Nanocrystals in BiVO ₄ Photoanode for Efficient Photoelectrochemical Water Splitting	Nature Communications	2019, 10, 2609	Jia, Lichao	I
2	Single Atom Tungsten Doped Ultrathin Alpha-Ni(OH)(2) for Enhanced Electrocatalytic Water Oxidation	Nature Communications	2019, 10, 2149	Liu, Shengzhong	I
3	Iron-Catalyzed Anti-Markovnikov Hydroamination and Hydroamidation of Allylic Alcohols	Journal of The American Chemical Society	2019, 141(34), 13506-13515	Wang, Chao	I
4	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics	Journal of The American Chemical Society	2019, 141(6), 2684-2694	Liu, Shengzhong	I
5	Coordination-driven Self-assembled Metallacycles Incorporating Pyrene: Fluorescence Mutability, Tunability, and Aromatic Amine Sensing	Journal of The American Chemical Society	2019, 141(4), 1757-1765	Fang, Yu	I
6	Molecular Engineering of a 3D Self-Supported Electrode for Oxygen Electrocatalysis in Neutral Media	Angewandte Chemie-International Edition	2019, 58, 18883-18887	Cao, Rui	I
7	Rhodium-catalyzed Enantioselective Oxidative [3+2] Annulation of Arenes and Azabicyclic Olefins through Twofold C-H Activation	Angewandte Chemie-International Edition	2019, 58, 17666-17670	Li, Xingwei	I
8	All-inorganic CsPbX ₃ Perovskite Solar Cells: Progress and Prospects	Angewandte Chemie-International Edition	2019, 58(44), 15596-15618	Liu, Shengzhong	I
9	Ultramicroporous Building Units as a Path to Bi-microporous Metal-organic Frameworks with High Acetylene Storage and Separation Performance	Angewandte Chemie-International Edition	2019, 58(38), 13590-13595	Zhai, Quanguo	I

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10	Transition-metal-free Hydrogen Autotransfer: Diastereoselective N-Alkylation of Amines with Racemic Alcohols	Angewandte Chemie-International Edition	2019, 58(31), 10528-10536	Wang, Chao	I
11	High-rate, Tunable Syngas Production with Artificial Photosynthetic Cells	Angewandte Chemie-International Edition	2019, 58(23), 7718-7722	Gu, Quan	I
12	Selective Manganese-catalyzed Oxidation of Hydrosilanes to Silanols under Neutral Reaction Conditions	Angewandte Chemie-International Edition	2019, 58(19), 6380-6384	Wang, Chao	I
13	Mn-Catalyzed Dehydrocyanative Transannulation of Heteroarenes and Propargyl Carbonates through C-H Activation: Beyond the Permanent Directing Effects of Pyridines/Pyrimidines	Angewandte Chemie-International Edition	2019, 58(15), 5090-5094	Li, Xingwei	I
14	Recent Advances in Flexible Perovskite Solar Cells: Fabrication and Applications	Angewandte Chemie-International Edition	2019, 58(14), 4466-4483	Liu, Shengzhong	I
15	Rhodium(III)-Catalyzed Enantioselective Coupling of Indoles and 7-Azabenzonorbornadienes by C-H Activation/Desymmetrization	Angewandte Chemie-International Edition	2019, 58(1), 322-326	Li, Xingwei	I
16	Amyloid-Like Rapid Surface Modification for Antifouling and In-depth Remineralization of Dentine Tubules to Treat Dental Hypersensitivity	Advanced Materials	2019, 31(46), 1903973	Yang, Peng	I
17	Compositional Control in 2D Perovskites with Alternating Cations in the Interlayer Space for Photovoltaics with Efficiency over 18%	Advanced Materials	2019, 31(44), 1903848	Liu, Shengzhong	I
18	Fine Multi-Phase Alignments in 2D Perovskite Solar Cells with Efficiency over 17% via Slow Post-Annealing	Advanced Materials	2019, 31(42), 1903889	Liu, Shengzhong	I
19	Metal Cations in Efficient Perovskite Solar Cells: Progress and Perspective	Advanced Materials	2019, 31(50), 1902037	Liu, Shengzhong	I
20	Spatially Confined Growth of Fullerene to Super-long Crystalline Fibers in Supramolecular Gels for High-Performance Photodetector	Advanced Materials	2019, 31(18), 1808254	Fang, Yu	I

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21	Protein-bound Freestanding 2D Metal Film for Stealth Information Transmission	Advanced Materials	2019, 31(5), 1803377	Yang, Peng	I
22	Multifunctional Pyrazoline Based AIEgens: Real-time Tracking and Specific Protein "Fishing" of Lipid Droplets	Chemical Science	2019, 10(39), 9009-9016	Li, Nan	I
23	Low Overpotential Water Oxidation at Neutral PH Catalyzed by a Copper(II) Porphyrin	Chemical Science	2019, 10(9), 2613-2622	Cao, Rui	I
24	Electrocatalytic Hydrogen Evolution with Gallium Hydride and Ligand-centered Reduction	Chemical Science	2019, 10(8), 2308-2314	Cao, Rui	I
25	Manganese(II) Phosphate Nanosheet Assembly with Native out-of-plane Mn Centres for Electrocatalytic Water Oxidation	Chemical Science	2019, 10(1), 191-197	Cao, Rui	I
26	Enhanced Energy Transfer in a Donor-acceptor Photosensitizer Triggers Efficient Photodynamic Therapy	ACS Applied Materials & Interfaces	2019, 11(42), 38467-38474	Tang, Yanli	I
27	0.2 V Electrolysis Voltage-driven Alkaline Hydrogen Production with Nitrogen-doped Carbon Nanobowl-supported Ultrafine Rh Nanoparticles of 1.4 nm	ACS Applied Materials & Interfaces	2019, 11(38), 35039-35049	An, Zhongwei	I
28	Surface Assistant Charge Separation in PEC Cu ₂ S-Ni/Cu ₂ O Cathode	ACS Applied Materials & Interfaces	2019, 11(37), 34000-34009	Wang, Zenglin	I
29	Controlled 3D Shape Transformation Activated by Room Temperature Stretching and Release of a Flat Polymer Sheet	ACS Applied Materials & Interfaces	2019, 11(33), 30308-30316	Liu, Zhongwen	I
30	Amino Acid-modified Conjugated Oligomer Self-assembly Hydrogel for Efficient Capture and Specific Killing of Antibiotic-resistant Bacteria	ACS Applied Materials & Interfaces	2019, 11(18), 16320-16327	Liu, Zhongwen	I

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31	Direct Production of 2,5-Dimethylfuran with High Yield from Fructose over a Carbon-Based Solid Acid-coated CuCo Bimetallic Catalyst	ACS Applied Materials & Interfaces	2019, 11(13), 12481-12491	Dong, Wensheng	I
32	Effect of TC(002) on the Output Current of a ZnO Thin-film Nanogenerator and a New Piezoelectricity Mechanism at the Atomic Level	ACS Applied Materials & Interfaces	2019, 11(13), 12656-12665	Liu, Shengzhong	I
33	Aggregation-induced Emission Luminogens with the Capability of Wide Color Tuning, Mitochondrial and Bacterial Imaging, and Photodynamic Anticancer and Antibacterial Therapy	ACS Applied Materials & Interfaces	2019, 11(12), 11227-11237	Li, Nan	I
34	Improvement of the Biocompatibility and Potential Stability of Chronically Implanted Electrodes Incorporating Coating Cell Membranes	ACS Applied Materials & Interfaces	2019, 11(9), 8807-8817	Zhang, Chengxiao	I
35	Mechanochromic Wide-spectrum Luminescence Based on a Monoboron Complex	ACS Applied Materials & Interfaces	2019, 11(8), 8676-8684	Fang, Yu	I
36	Robust Conductive Micropatterns on PTFE Achieved via Selective UV-Induced Graft Copolymerization for Flexible Electronic Applications	ACS Applied Materials & Interfaces	2019, 11(5), 5517-5525	Wang, Zenglin	I
37	Fabrication of a High-Quality Cu ₂ ZnSn(S, Se) ₄ Absorber Layer via an Aqueous Solution Process and Application in Solar Cells	ACS Applied Materials & Interfaces	2019, 11(1), 634-639	Liu, Shengzhong	I
38	Structure Effects of Metal Corroles on Energy-related Small Molecule Activation Reactions	ACS Catalysis	2019, 9(5), 4320-4344	Cao, Rui	I
39	Mild Redox-neutral Depolymerization of Lignin with a Binuclear Rh Complex in Water	ACS Catalysis	2019, 9(5), 4441-4447	Wang, Chao	I

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40	Attaching Cobalt Corroles onto Carbon Nanotubes: Verification of Four-electron Oxygen Reduction by Mononuclear Cobalt Complexes with Significantly Improved Efficiency	ACS Catalysis	2019, 9(5), 4551-4560	Cao, Rui	I
41	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions	ACS Energy Letters	2019, 4(6), 1356-1363	Liu, Shengzhong	I
42	Sn-Triggered Two-dimensional Fast Protein Assembly with Emergent Functions	ACS Nano	2019, 13(7), 7736-7749	Yang, Peng	I
43	Superstructure of a Metal-organic Framework Derived from Microdroplet Flow Reaction: An Intermediate State of Crystallization by Particle Attachment	ACS Nano	2019, 13(3), 2901-2912	Yang, Peng	I
44	Conjugated Microporous Polymers with Tunable Electronic Structure for High-performance Potassium-ion Batteries	ACS Nano	2019, 13(1), 745-754	iang, Jiaying	I
45	Photoassisted Hydrothermal Synthesis of IrO _x -TiO ₂ for Enhanced Water Oxidation	ACS Sustainable Chemistry & Engineering	2019, 7(21), 17941-17949	Liu, Shengzhong	I
46	Dual Tuning of Ultrathin Alpha-Co(OH) ₂ Nanosheets by Solvent Engineering and Coordination Competition for Efficient Oxygen Evolution	ACS Sustainable Chemistry & Engineering	2019, 7(3), 3527-3535	Cao, Rui	I
47	Component-dependent Electrocatalytic Activity of Ultrathin PdRh Alloy Nanocrystals for the Formate Oxidation Reaction	ACS Sustainable Chemistry & Engineering	2019, 7(2), 2830-2836	Jiang, Jiaying	I
48	Carbonyl Linked Carbon Nitride Loading Few Layered MoS ₂ for Boosting Photocatalytic Hydrogen Generation	ACS Sustainable Chemistry & Engineering	2019, 7(1), 1389-1398	Liu, Shengzhong	I
49	Ruddlesden-popper 2D Component to Stabilize Gamma-CsPbI ₃ Perovskite Phase for Stable and Efficient Photovoltaics	Advanced Energy Materials	2019, 9(42), 1902529	Liu, Shengzhong	I

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50	A Novel Anion Doping for Stable CsPbI ₂ Br Perovskite Solar Cells with an Efficiency of 15.56% and an Open Circuit Voltage of 1.30 V	Advanced Energy Materials	2019, 9(40), 1902279	Liu, Shengzhong	I
51	Interface-modification-induced Gradient Energy Band for Highly Efficient CsPbI ₂ Br ₂ Perovskite Solar Cells	Advanced Energy Materials	2019, 9(21), 1803785	Liu, Shengzhong	I
52	27%-efficiency Four-terminal Perovskite/Silicon Tandem Solar Cells by Sandwiched Gold Nanomesh	Advanced Functional Materials	2019, 1908298	Liu, Shengzhong	I
53	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI ₃ : An In Situ Investigation	Advanced Functional Materials	2019, 29(47), 1807544	Liu, Shengzhong	I
54	Nanoassembly Growth Model for Subdomain and Grain Boundary Formation in 1T' Layered ReS ₂	Advanced Functional Materials	2019, 29, 1906385	Lei, Zhibin	I
55	A Perylene Bisimide-contained Molecular Dyad with High-efficient Charge Separation: Switchability, Tunability, and Applicability in Moisture Detection	Advanced Functional Materials	2019, 29(44), 1905295	Fang, Yu	I
56	A Versatile Photoinduced Electron Transfer-based Upconversion Fluorescent Biosensing Platform for the Detection of Disease Biomarkers and Nerve Agent	Advanced Functional Materials	2019, 29(32), 1903191	Liu, Chenghui	I
57	PbTiO ₃ as Electron-selective Layer for High-efficiency Perovskite Solar Cells: Enhanced Electron Extraction via Tunable Ferroelectric Polarization	Advanced Functional Materials	2019, 29(1), 1806427	Liu, Shengzhong	I
58	Record-low-threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite	Advanced Functional Materials	2019, 29(2), 1805553	Liu, Shengzhong	I
59	Multistimuli-responsive Self-organized Liquid Crystal Bragg Gratings	Advanced Optical Materials	2019, 7(9), 1900101	An, Zhongwei	I

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60	Additive Engineering to Grow Micron-sized Grains for Stable High Efficiency Perovskite Solar Cells	Advanced Science	2019, 6(18), 1901241	Liu, Shengzhong	I
61	Marriage of Aggregation-induced Emission and Intramolecular Charge Transfer toward High Performance Film-based Sensing of Phenolic Compounds in the Air	Analytical Chemistry	2019, 91(22), 14451-14457	Fang, Yu	I
62	Rolling Circle Extension-actuated Loop-mediated Isothermal Amplification (RCA-LAMP) for Ultrasensitive Detection of MicroRNAs	Biosensors & Bioelectronics	2019, 128, 17-22	Liu, Chenghui	I
63	Combining 3D Graphene-like Screen-printed Carbon Electrode with Methylene Blue-loaded Liposomal Nanoprobes for Phospholipase A(2) Detection	Biosensors & Bioelectronics	2019, 126, 255-260	Gao, Qiang	I
64	KOH-treated Reduced Graphene Oxide: 100% Selectivity for H ₂ O ₂ Electroproduction	Carbon	2019, 153, 6-11	Chen, Yu	
65	Boosting Hydrogen Evolution by Using Covalent Frameworks of Fluorinated Cobalt Porphyrins Supported on Carbon Nanotubes	Chemical Communications	2019, 55(84), 12647-12650	Cao, Rui	I
66	Film-based Fluorescence Sensing: A "Chemical Nose" for Nicotine	Chemical Communications	2019, 55(84), 12679-12682	Fang, Yu	I
67	Facile Construction of Boranil Complexes with Aggregation-induced Emission Characteristics and Their Specific Lipid Droplet Imaging Applications	Chemical Communications	2019, 55(58), 8494-8497	Li, Nan	I
68	Access to 2-naphthols via Ru(II)-catalyzed C-H Annulation of Nitrones with Alpha-diazo Sulfonyl Ketones	Chemical Communications	2019, 55(51), 7339-7342	Li, Xingwei	I

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69	Specific Detection of RNA Mutation at Single-base Resolution by Coupling the Isothermal Exponential Amplification Reaction (EXPAR) with Chimeric DNA Probe-aided Precise RNA Disconnection at the Mutation Site	Chemical Communications	2019, 55(48), 6934-6937	Liu, Chenghui	I
70	Fast, Sensitive, Selective and Reversible Fluorescence Monitoring of TATP in a Vapor Phase	Chemical Communications	2019, 55(7), 941-944	Fang, Yu	I
71	Ordered Porous BiVO ₄ Based Gas Sensors with High Selectivity and Fast-response towards H ₂ S	Chemical Engineering Journal	2019, 375, 121924	Jia, Lichao	I
72	Construction of Nano-composites by Enzyme Entrapped in Mesoporous Dendritic Silica Particles for Efficient Biocatalytic Degradation of Antibiotics in Wastewater	Chemical Engineering Journal	2019, 375, 121968	Chen, Yu	I
73	Boosting Hematite Photoelectrochemical Water Splitting by Decoration of TiO ₂ at the Grain Boundaries	Chemical Engineering Journal	2019, 368, 959-967	Jia, Lichao	I
74	Controllable and Scalable Synthesis of Hollow-structured Porous Aromatic Polymer for Selective Adsorption and Separation of HMF from Reaction Mixture of Fructose Dehydration	Chemical Engineering Journal	2019, 358, 467-479	Liu, Zhongwen	I
75	Cesium Lead Mixed-halide Perovskites for Low-energy Loss Solar Cells with Efficiency Beyond 17%	Chemistry of Materials	2019, 31(16), 6231-6238	Liu, Shengzhong	I
76	Sustainable Ligand-free, Palladium-catalyzed Suzuki-miyaura Reactions in Water: Insights into the Role of Base	Chemsuschem	2019, 12, 5265-5273	Gao, Ziwei	I
77	Graphene-encapsulated Co ₉ S ₈ Nanoparticles on N,S-Codoped Carbon Nanotubes: An Efficient Bifunctional Oxygen Electrocatalyst	Chemsuschem	2019, 12(14), 3390-3400	An, Zhongwei	I

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78	Convenient Immobilization of Cobalt Corroles on Carbon Nanotubes through Covalent Bonds for Electrocatalytic Hydrogen and Oxygen Evolution Reactions	Chemsuschem	2019, 12(4), 801-806	Cao, Rui	I
79	Controlled Synthesis of Hexagonal Annular Mn(OH)F for Water Oxidation	Chinese Journal of Catalysis	2019, 40(12), 1860-1866	Cao, Rui	I
80	Tailoring the Surface Structures of Iron Oxide Nanorods to Support Au Nanoparticles for CO Oxidation	Chinese Journal of Catalysis	2019, 40(12), 1884-1894	Liu, Zhongwen	I
81	Amide-functionalized Metal-organic Frameworks: Syntheses, Structures and Improved Gas Storage and Separation Properties	Coordination Chemistry Reviews	2019, 378, 2-16	Bai, Junfeng	I
82	Fabrication of 3D Microporous Amorphous Metallic Phosphides for High-efficiency Hydrogen Evolution Reaction	Electrochimica Acta	2019, 306, 651-659	Wang, Zenglin	I
83	Unclogging Electron-transporting Channels via Self-assembly for Improving Light Harvesting and Stability of Dye-sensitized Solar Cells	Electrochimica Acta	2019, 299, 518-530	An, Zhongwei	I
84	Hierarchical Nanoporous Ni(Cu) Alloy Anchored on Amorphous NiFeP as Efficient Bifunctional Electrocatalysts for Hydrogen Evolution and Hydrazine Oxidation	Journal of Catalysis	2019, 373, 180-189	Wang, Zenglin	I
85	Cobalt Nanoparticles Confined in Carbon Matrix for Probing the Size Dependence in Fischer-Tropsch Synthesis	Journal of Catalysis	2019, 369, 143-156	Liu, Zhongwen	I
86	Two Dimensional Metal Halide Perovskites: Promising Candidates for Light-emitting Diodes	Journal of Energy Chemistry	2019, 37, 97-110	Liu, Shengzhong	I
87	Pseudohalide Induced Tunable Electronic and Excitonic Properties in Two-dimensional Single-layer Perovskite for Photovoltaics and Photoelectronic Applications	Journal of Energy Chemistry	2019, 36, 106-113	Liu, Shengzhong	I

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88	Anti-solvent Engineering for Efficient Semitransparent CH ₃ NH ₃ PbBr ₃ Perovskite Solar Cells for Greenhouse Applications	Journal of Energy Chemistry	2019, 34, 12-19	Liu, Shengzhong	I
89	C-C Formation Mediated by Photoinduced Electrons from Crystallized Carbon Nitride Nanobelts under Visible Light Irradiation	Journal of Energy Chemistry	2019, 30, 152-161	Gu, Quan	I
90	Ruthenium(iii) Polyethyleneimine Complexes for Bifunctional Ammonia Production and Biomass Upgrading	Journal of Materials Chemistry A	2019, 7(44), 25433-25440	iang, Jiaying	I
91	Glycerol Oxidation Assisted Electrocatalytic Nitrogen Reduction: Ammonia and Glyceraldehyde Co-production on Bimetallic RhCu Ultrathin Nanoflake Nanoaggregates	Journal of Materials Chemistry A	2019, 7(37), 21149-21156	Chen, Pei	I
92	Iron Doped Cobalt Phosphide Ultrathin Nanosheets on Nickel Foam for Overall Water Splitting	Journal of Materials Chemistry A	2019, 7(36), 20658-20666	Chen, Yu	I
93	Hydrogenated Nanotubes/nanowires Assembled from TiO ₂ Nanoflakes with Exposed {111} Facets: Excellent Photo-catalytic CO ₂ Reduction Activity and Charge Separation Mechanism between (111) and (111) Polar Surfaces	Journal of Materials Chemistry A	2019, 7(24), 14761-14775	Liu, Shengzhong	I
94	Polyethylenimine-modified Nickel Phosphide Nanosheets: Interfacial Protons Boost the Hydrogen Evolution Reaction	Journal of Materials Chemistry A	2019, 7(22), 13770-13776	Chen, Yu	I
95	Intercalation and Delamination Behavior of Ti ₃ C ₂ Tx and MnO ₂ /Ti ₃ C ₂ Tx/RGO Flexible Fibers with High Volumetric Capacitance	Journal of Materials Chemistry A	2019, 7(20), 12582-12592	Lei, Zhibin	I
96	Facile Synthesis of Ti ₄ O ₇ on Hollow Carbon Spheres with Enhanced Polysulfide Binding for Highperformance Lithium-sulfur Batteries	Journal of Materials Chemistry A	2019, 7(17), 10494-10504	Lei, Zhibin	I

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97	Two-dimensional Graphdiyne Analogue Co-coordinated Porphyrin Covalent Organic Framework Nanosheets as a Stable Electrocatalyst for the Oxygen Evolution Reaction	Journal of Materials Chemistry A	2019, 7(10), 5575-5582	Zhang, Ying	I
98	Nitrogen-doped Graphene Quantum Dots for 80% Photoluminescence Quantum Yield for Inorganic -CsPbI ₃ Perovskite Solar Cells with Efficiency beyond 16%	Journal of Materials Chemistry A	2019, 7(10), 5740-5747	Liu, Shengzhong	I
99	Quest for 9-connected Robust Metal-organic Framework Platforms based on [M-3(O/OH)(COO)(6)(pyridine)(3)] Clusters as Excellent Gas Separation and Asymmetric Supercapacitor Materials	Journal of Materials Chemistry A	2019, 7(9), 4640-4650	Zhai, Quanguo	I
100	Nitrogen-doped Carbon Sheets Coated on CoNiO ₂ @textile Carbon as Bifunctional Electrodes for Asymmetric Supercapacitors	Journal of Materials Chemistry A	2019, 7(8), 4165-4174	Lei, Zhibin	I
101	Highly Efficient Electroluminescence from Evaporation- and Solution-processable Orange-red Thermally Activated Delayed Fluorescence Emitters	Journal of Materials Chemistry C	2019, 7(39), 12321-12327	Hu, Jianyong	I
102	Single-crystalline Lead Halide Perovskite Wafers for High Performance Photodetectors	Journal of Materials Chemistry C	2019, 7(27), 8357-8363	Liu, Shengzhong	I
103	Two-dimensional (PEA) ₂ PbBr ₄ Perovskite Single Crystals for a High Performance UV-detector	Journal of Materials Chemistry C	2019, 7(6), 1584-1591	Liu, Shengzhong	I
104	A Universal Host Material with a Simple Structure for Monochrome and White Phosphorescent/TADF OLEDs	Journal of Materials Chemistry C	2019, 7(3), 558-566	Hu, Jianyong	I
105	Direct-indirect Transition of Pressurized Two-dimensional Halide Perovskite: Role of Benzene Ring Stack Ordering	Journal of Physical Chemistry Letters	2019, 10(19), 5687-5693	Liu, Shengzhong	I
106	Moisture-induced Crystallinity Improvement for Efficient CsPbI ₃ -xBr _x Perovskite Solar Cells with Excess Cesium Bromide	Journal of Physical Chemistry Letters	2019, 10(16), 4587-4595	Liu, Shengzhong	I

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107	Counterion Effect on Vibrational Relaxation and the Rotational Dynamics of Interfacial Water and an Anionic Vibrational Probe in the Confined Reverse Micelles Environment	Journal of Physical Chemistry Letters	2019, 10(2), 176-182	Bian, Hongtao	I
108	Hydrophilically Engineered Polyacrylonitrile Nanofiber Aerogel as a Soft Template for Large Mass Loading of Mesoporous Poly(3,4-Ethylenedioxythiophene) Network on a Bare Metal Wire for High-rate Wire-shaped Supercapacitors	Journal of Power Sources	2019, 441, 227212	Lei, Zhongli	I
109	Abnormal Absorption Onset Shift of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Film by Adding PbBr_2 into its Precursor and its Effect on Photovoltaic Performance	Journal of Power Sources	2019, 437, 226914	Liu, Shengzhong	I
110	Direct Growth of Flake-like Metal-organic Framework on Textile Carbon Cloth as High-performance Supercapacitor Electrode	Journal of Power Sources	2019, 428, 124-130	Lei, Zhibin	I
111	Comprehensive Investigation of Sputtered and Spin-coated Zinc Oxide Electron Transport Layers for Highly Efficient and Stable Planar Perovskite Solar Cells	Journal of Power Sources	2019, 427, 223-230	Liu, Shengzhong	I
112	Low-temperature-gradient Crystallization for Multi-inch High-quality Perovskite Single Crystals for Record Performance Photodetectors	Materials Today	2019, 22, 67-75	Liu, Shengzhong	I
113	Goldschmidt-rule-deviated Perovskite CsPbI_2Br by Barium Substitution for Efficient Solar Cells	Nano Energy	2019, 61, 165-172	Liu, Shengzhong	I
114	Interface Engineering of Low Temperature Processed All-inorganic CsPbI_2Br Perovskite Solar Cells Toward PCE Exceeding 14%	Nano Energy	2019, 60, 583-590	Liu, Shengzhong	I
115	Chlorine Doping for Black Gamma- CsPbI_3 Solar Cells with Stabilized Efficiency beyond 16%	Nano Energy	2019, 58, 175-182	Liu, Shengzhong	I

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116	Interfacial Engineering at the 2D/3D Heterojunction for High-performance Perovskite Solar Cells	Nano Letters	2019, 19(10), 7181-7190	Liu, Shengzhong	I
117	Stable Efficiency Exceeding 20.6% for Inverted Perovskite Solar Cells through Polymer-optimized PCBM Electron-transport Layers	Nano Letters	2019, 19(5), 3313-3320	Liu, Shengzhong	I
118	Optical Management with Nanoparticles for a Light Conversion Efficiency Enhancement in Inorganic Gamma-CsPbI ₃ Solar Cells	Nano Letters	2019, 19(3), 1796-1804	Liu, Shengzhong	I
119	Self-template Synthesis of Defect-rich NiO Nanotubes as Efficient Electrocatalysts for Methanol Oxidation Reaction	Nanoscale	2019, 11(42), 19783-19790	Chen, Pei	I
120	Cyanogel Auto-reduction Induced Synthesis of PdCo Nanocubes on Carbon Nanobowls: A Highly Active Electrocatalyst for Ethanol Electrooxidation	Nanoscale	2019, 11(28), 13477-13483	iang, Jiaxing	I
121	Ultrathin Rh Nanosheets as a highly Efficient Bifunctional Electrocatalyst for Isopropanol-assisted Overall Water Splitting	Nanoscale	2019, 11(19), 9319-9326	Chen, Yu	I
122	Syntheses of Benzofuranoquinolines and Analogues via Photoinduced Acceptorless Dehydrogenative Annulation of O-Phenylfuranylpyridines	Organic Letters	2019, 21(22), 9183-9187	Zhang, Zunting	I
123	N-Pentenyl-type Glycosides for Catalytic Glycosylation and Their Application in Single-catalyst One-pot Oligosaccharide Assemblies	Organic Letters	2019, 21(20), 8270-8274	Chai, Yonghai	I
124	Rhodium(III)-catalyzed Chemo-divergent Couplings of Sulfoxonium Ylides with Oxa/azabicyclic Olefins	Organic Letters	2019, 21(20), 8459-8463	Li, Xingwei	I
125	Catalyst- and Additive-free Cascade Reaction of Isoquinoline N-Oxides with Alkynones: An Approach to Benzoazepino[2,1-a]isoquinoline Derivatives	Organic Letters	2019, 21(14), 5630-5633	Zhang, Zunting	I

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126	Fe(III)-Catalyzed Aerobic Intramolecular N-N Coupling of Aliphatic Azides with Amines	Organic Letters	2019, 21(13), 4960-4965	Gao, Ziwei	I
127	Rhodium(III)-catalyzed Oxidative Allylic C-H Indolylolation via Nucleophilic Cyclization	Organic Letters	2019, 21(12), 4662-4666	Li, Xingwei	I
128	Tuning the Chemoselectivity of Silyl Protected Rhamnals by Temperature and Bronsted Acidity: Kinetically Controlled 1,2-Addition vs Thermodynamically Controlled Ferrier Rearrangement	Organic Letters	2019, 21(4), 1103-1107	Chai, Yonghai	I
129	Improving the Photocatalytic Hydrogen Evolution of UiO-67 by Incorporating Ce ⁴⁺ -Coordinated Bipyridinedicarboxylate Ligands	Science Bulletin	2019, 64(20), 1502-1509	Bian, Hongtao	I
130	Origin of Enhanced Stability in Thiocyanate Substituted -FAPbI(3) Analogues	Science China-Chemistry	2019, 62(7), 866-874	Liu, Shengzhong	I
131	A Single Probe-based Sensor Array for Fingerprinting Biothiols in Serum and Urine via Surfactant Modulation Strategy	Sensors And Actuators B-Chemical	2019, 301, 127144	Fang, Yu	I
132	One Bead Three Targets: An Enzyme-free Platform Enabling Simultaneous Detection of Multiplex MicroRNAs on a Single Microbead	Sensors And Actuators B-Chemical	2019, 301, 127119	Liu, Chenghui	I
133	Ultra-sensitive and Chemiluminescent Detection of Telomerase Activity via Handheld Luminometer	Sensors And Actuators B-Chemical	2019, 301, 127109	Li, Baoxin	I
134	Surfactant Modulation Effect on the Fluorescence Emission of a Dual-fluorophore: Realizing a Single Discriminative Sensor for Identifying Different Proteins in Aqueous Solutions	Sensors And Actuators B-Chemical	2019, 295, 168-178	Ding, Liping	I
135	Squaraine-hydrazine Adducts for Fast and Colorimetric Detection of Aldehydes in Aqueous Media	Sensors And Actuators B-Chemical	2019, 292, 88-93	Fang, Yu	I

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136	Preparation of Hierarchical Superhydrophobic Melamine-formaldehyde/Ag nanocomposite arrays as Surface-enhanced Raman Scattering Substrates for Ultrasensitive and Reproducible Detection of Biomolecules	Sensors And Actuators B-Chemical	2019, 288, 20-26	Deng, Ziwei	I
137	Salt-Templated Construction of Ultrathin Cobalt Doped Iron Thiophosphite Nanosheets toward Electrochemical Ammonia Synthesis	Small	2019, 15, 1903500	Zhang, Ying	I
138	Europium and Acetate Co-doping Strategy for Developing Stable and Efficient CsPbI ₂ Br Perovskite Solar Cells	Small	2019, 15(46), 1904387	Liu, Shengzhong	I
139	NiFe Oxalate Nanomesh Array with Homogenous Doping of Fe for Electrocatalytic Water Oxidation	Small	2019, 15(46), 1904579	Cao, Rui	I
140	Linear Dichroism and Nondestructive Crystalline Identification of Anisotropic Semimetal Few-Layer MoTe ₂	Small	2019, 15(44), 1903159	Xu, Hua	I
141	Chemical Vapor Deposition Growth of High Crystallinity Sb ₂ Se ₃ Nanowire with Strong Anisotropy for Near-Infrared Photodetectors	Small	2019, 15(9), 1805307	Xu, Hua	I
142	Double-Site Ni-W Nanosheet for Best Alkaline HER Performance at High Current Density >500 mA cm ⁻²	Advanced Materials Interfaces	2019, 6(10), 1900308	Liu, Shengzhong	II
143	Porous Particle-based Inkjet Printing of Flexible Fluorescent Films: Enhanced Sensing Performance and Advanced Encryption	Advanced Materials Technologies	2019, 4(8), 1900109	Fang, Yu;	II
144	A High Mobility Conjugated Polymer Enables Air and Thermally Stable CsPbI ₂ Br Perovskite Solar Cells with an Efficiency Exceeding 15%	Advanced Materials Technologies	2019, 4(9), 1900311	Liu, Shengzhong	II
145	Unambiguous Discrimination and Detection of Controlled Chemical Vapors by a Film-based Fluorescent Sensor Array	Advanced Materials Technologies	2019, 4(7), 1800644	Fang, Yu;	II

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146	Gold(I)-catalyzed Synthesis of Six-membered P,O-heterocycles via Hydration/Intramolecular Cyclization Cascade Reaction	Advanced Synthesis & Catalysis	2019, 361(18), 4227-4231	Zhang, Zunting	II
147	Synthesis of 4-(Iso)Quinoliny1-3(2H)-furanones from (Iso)Quinoline N-oxides and 1,4-Diyn-3-ones: A Comparison of Copper Catalysis and Metal-free Reaction	Advanced Synthesis & Catalysis	2019, 361(4), 696-701	Zhang, Zunting	II
148	Target-controlled in Situ Formation of G-quadruplex DNAzyme for a Sensitive Visual Assay of Telomerase Activity	Analyst	2019, 144(20), 5959-5964	Li, Baoxin	II
149	Highly Selective Synthesis of Gamma-valerolactone from Levulinic Acid at Mild Conditions Catalyzed by Boron Oxide Doped Cu/ZrO ₂ Catalysts	Applied Catalysis A-General	2019, 587, 117244	Dong, Wensheng	II
150	Acid Activated Montmorillonite for Gas-phase Catalytic Dehydration of Monoethanolamine	Applied Clay Science	2019, 168, 116-124	Liu, Zhongwen	II
151	Improving Sensing Performance of the ZnO Foam Structure with Exposed {001} Facets by Hydrogenation and Sensing Mechanism at Molecule Level	Applied Surface Science	2019, 479, 646-654	Liu, Shengzhong	II
152	Enhanced Gas-sensing Properties and Sensing Mechanism of the Foam Structures Assembled from NiO Nanoflakes with Exposed {111} Facets	Applied Surface Science	2019, 470, 596-606	Liu, Shengzhong	II
153	Interfacial Electron Transfer Promotes Photo-catalytic Reduction of 4-Nitrophenol by Au/Ag ₂ O Nanoparticles Confined in Dendritic Mesoporous Silica Nanospheres	Catalysis Science & Technology	2019, 9(20), 5786-5792	Yuan, Enhui;	II
154	Photocatalytic Coupled Redox Cycle for Two Organic Transformations over Pd/carbon Nitride Composites	Catalysis Science & Technology	2019, 9(18), 5077-5089	Gu, Quan	II

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155	In situ Growth of Triazine-heptazine Based Carbon Nitride Film for Efficient (photo)Electrochemical Performance	Catalysis Science & Technology	2019, 9(2), 425-435	Gu, Quan	II
156	Defect-rich Ce _{1-x} ZrxO ₂ Solid Solutions for Oxidative Dehydrogenation of Ethylbenzene with CO ₂	Catalysis Today	2019, 324, 39-48	Liu, Zhongwen	II
157	Enzyme Immobilization in MOF-derived Porous NiO with Hierarchical Structure: An Efficient and Stable Enzymatic Reactor	Chemcatchem	2019, 11(12), 2828-2836	Zhai, Quanguo	II
158	Ultralow Fe-III Ion Doping Triggered Generation of Ni ₃ S ₂ Ultrathin Nanosheet for Enhanced Oxygen Evolution Reaction	Chemcatchem	2019, 11(7), 2011-2016	Wang, Zenglin	II
159	Hierarchical Zn-Doped CoO Nanoflowers for Electrocatalytic Oxygen Evolution Reaction	Chemcatchem	2019, 11(5), 1480-1486	Cao, Rui	II
160	Heterogeneous Photocatalyzed C-C Cross-coupling Reactions Under Visible-light and Near-infrared Light Irradiation	Chemcatchem	2019, 11(2), 669-683	Gao, Ziwei	II
161	Phosphorization-Induced Void-Containing Fe ₃ O ₄ Nanoparticles Enabling Low Lithiation/Delithiation Potential for High-Performance Lithium-Ion Batteries	Chemelectrochem	2019, 6(19), 5060-5069		II
162	Importance of Electrocatalyst Morphology for the Oxygen Reduction Reaction	Chemelectrochem	2019, 6(10), 2600-2614	Cao, Rui	II
163	A New Strategy for Solar-to-Hydrogen Energy Conversion: Photothermal-Promoted Electrocatalytic Water Splitting	Chemelectrochem	2019, 6(10), 2762-2765	Cao, Rui	II
164	Single-Benzene-Based Solvatochromic Chromophores: Color-Tunable and Bright Fluorescence in the Solid and Solution States	Chemistry-A European Journal	2019, 25, 16732-16739	Fang, Yu;	II

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165	2D Metal-Organic Framework Derived CuCo Alloy Nanoparticles Encapsulated by Nitrogen-Doped Carbonaceous Nanoleaves for Efficient Bifunctional Oxygen Electrocatalyst and Zinc-Air Batteries	Chemistry-A European Journal	2019, 25(55), 12780-12788	Cao, Rui	II
166	Underevaluated Solvent Effects in Electrocatalytic CO ₂ Reduction by Fe-III Chloride Tetrakis(pentafluorophenyl)porphyrin	Chemistry-A European Journal	2019, 25, 1-7	Cao, Rui	II
167	A Versatile Dynamic Light Scattering Strategy for the Sensitive Detection of Plant MicroRNAs Based on Click-Chemistry-Amplified Aggregation of Gold Nanoparticles	Chemistry-A European Journal	2019, 25(7), 1701-1705	Liu, Chenghui	II
168	Hollow Bimetallic Zinc Cobalt Phosphosulfides for Efficient Overall Water Splitting	Chemistry-A European Journal	2019, 25(2), 621-626	Cao, Rui	II
169	Syntheses, Structures and Sorption Properties of Three Isoreticular Trinuclear Indium-Based Amide-Functionalized Metal-Organic Frameworks	Chemistry-An Asian Journal	2019, 14(20), 3603-3610	Bai, Junfeng	II
170	Naphthyl End-Capped Terthiophene-Based Chemiresistive Sensors for Biogenic Amine Detection and Meat Spoilage Monitoring	Chemistry-An Asian Journal	2019, 14(15), 2751-2758	Fang, Yu;	II
171	Stereoselective -Mannosylation with 2,6-Lactone-bridged Thiomannosyl Donor by Remote Acyl Group Participation	Chemistry-An Asian Journal	2019, 14(9), 1424-1428	Chai, Yonghai	II
172	Organic-Inorganic Hybrid Perovskite Single Crystals: Crystallization, Molecular Structures, and Bandgap Engineering	Chemnanomat	2019, 5(3), 278-289	He, Xuexia	II
173	Facile Synthesis of Porous PdCu Nanoboxes for Efficient Chromium(vi) Reduction	Crystengcomm	2019, 21(24), 3654-3659	Chen, Pei	II
174	Formation Mechanisms of Interfaces between Different Ti _n O _{2n-1} Phases Prepared by Carbothermal Reduction Reaction	Crystengcomm	2019, 21(3), 524-534	Liu, Zonghuai	II

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175	Tracking the Dimensional Conversion Process of Semiconducting Lead Bromide Perovskites by Mass Spectroscopy, Powder X-ray Diffraction, Microcalorimetry and Crystallography	Dalton Transactions	2019, 48(34), 12888-12894		II
176	Highly Selective C ₂ H ₂ and CO ₂ Capture and Magnetic Properties of a Robust Co-chain Based Metal-organic Framework	Dalton Transactions	2019, 48(22), 7938-7945	Gao, Ziwei	II
177	Arylacetylene End Capped Naphthodithiophene Diimide (NDTI)-based Semiconductors for Air-stable, Solution-processed n-channel Organic Field-effect Transistors: Effect of Terminal Aryl Groups on Charge Transport	Dyes And Pigments	2019, 169, 7-14	Hu, Jianyong	II
178	Effect of the Thieno[3,4-c]pyrrole-4,6-dione on Properties of the Cyclic Thiourea Triphenylamine Sensitizers	Dyes And Pigments	2019, 161, 197-204	Chen, Pei	II
179	Design of a Multifunctional Indium-Organic Framework: Fluorescent Sensing of Nitro Compounds, Physical Adsorption, and Photocatalytic Degradation of Organic Dyes	Inorganic Chemistry	2019, 58(16), 11220-11230	Zhai, Quanguo	II
180	A superstable 3p-block Metal-organic Framework Platform towards Prominent CO ₂ and C1/C2-hydrocarbon Uptake and Separation Performance and Strong Lewis Acid Catalysis for CO ₂ Fixation	Inorganic Chemistry Frontiers	2019, 6(3), 813-819	Zhai, Quanguo	II
181	Hierarchical ZnIn ₂ S ₄ : A Promising Cocatalyst to Boost Visible-light-driven Photocatalytic Hydrogen Evolution of In(OH)(3)	International Journal of Hydrogen Energy	2019, 44(12), 5787-5798	Dong, Wensheng	II
182	Improved Electrochemical Performance of Nickel-cobalt Hydroxides by Electrodeposition of Interlayered Reduced Graphene Oxide	International Journal of Hydrogen Energy	2019, 44(7), 3658-3667	Wang, Zenglin	II
183	The Intercalation of CORM-2 with Pharmaceutical Clay Montmorillonite (MMT) Aids for Therapeutic Carbon Monoxide Release	International Journal of Molecular Sciences	2019, 20(14), 3453	Gao, Ziwei	II

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184	Preparation and Capacitance of V ₂ O ₅ /holey Graphene Hybrid Aerogel Electrode with High Performance	Journal of Alloys And Compounds	2019, 780, 792-799	Liu, Zonghuai	II
185	Oxidation, Reduction, and Inert Gases Plasma-modified Defects in TiO ₂ as Electron Transport Layer for Planar Perovskite Solar Cells	Journal of CO ₂ Utilization	2019, 32, 46-52	Liu, Shengzhong	II
186	Monodispersed Silver-palladium Nanoparticles for Ethanol Oxidation Reaction Achieved by Controllable Electrochemical Synthesis from Ionic Liquid Microemulsions	Journal of Colloid And Interface Science	2019, 557, 450-457	Wang, Zenglin	II
187	Textile Carbon Network with Enhanced Areal Capacitance Prepared by Chemical Activation of Cotton Cloth	Journal of Colloid And Interface Science	2019, 553, 705-712	Lei, Zhibin	II
188	Interface Self-assembly Preparation of Multi-element Doped Carbon Nanobowls with High Electrocatalysis Activity for Oxygen Reduction Reaction	Journal of Colloid And Interface Science	2019, 533, 569-577	An, Zhongwei	II
189	Fabrication of PMPC/PTM/PEGDA Micropatterns onto Polypropylene Films Behaving with Dual Functions of Antifouling and Antimicrobial Activities	Journal of Materials Chemistry B	2019, 7(33), 5078-5088	Wang, Changhao	II
190	On Water Catalytic Aldol Reaction between Isatins and Acetophenones: Interfacial Hydrogen Bonding and Enamine Mechanism	Journal of Organic Chemistry	2019, 84(12), 7642-7651	Gao, Ziwei	II
191	Layer-Dependent Ultrahigh-Mobility Transport Properties in All-Inorganic Two-Dimensional Cs ₂ PbI ₂ Cl ₂ and Cs ₂ SnI ₂ Cl ₂ Perovskites	Journal of Physical Chemistry C	2019, 123(45), 27978-27985	Liu, Shengzhong	II
192	Fabrication of TiO ₂ (B)/Anatase Heterophase Junctions at High Temperature via Stabilizing the Surface of TiO ₂ (B) for Enhanced Photocatalytic Activity	Journal of Physical Chemistry C	2019, 123(3), 1779-1789	Wang, Zenglin	II

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193	An Efficient Electrocatalyst by Electroless Cobalt-Nickel-Phosphorus Alloy Plating on Three-Dimensional Graphene for Hydrogen Evolution Reaction	Journal of The Electrochemical Society	2019, 166(2), D69-D76		II
194	One-Step Assembly of TiO ₂ -Liposomes Based on Interfacial Sol-Gel Process within Lipid Bilayer	Langmuir	2019, 35(21), 7018-7025	Hu, Daodao	II
195	Surfactant Aggregates Encapsulating and Modulating: An Effective Way to Generate Selective and Discriminative Fluorescent Sensors	Langmuir	2019, 35(2), 326-341	Fang, Yu;	II
196	Developing Biopolymer Mesocrystals by Crystallization of Secondary Structures	Langmuir	2019, 35(1), 183-193	Yang, Peng	II
197	Synthesis and Mesomorphic Properties of the Nematic Mesophase Benzoxazole Derivatives with Big Twist Angle of Difluoro-biphenyl Unit	Liquid Crystals	2019, 46(7), 1013-1023	An, Zhongwei	II
198	Syntheses of New Diluents for Medium Birefringence Liquid Crystals Materials	Liquid Crystals	2019, 46(5), 700-707	Chen, Pei	II
199	Synthesis and Study the Liquid Crystalline Properties of Compounds Containing Benzoxazole Core and Terminal Vinyl Group	Liquid Crystals	2019, 46(5), 797-805	An, Zhongwei	II
200	Synthesis and Mesomorphic Properties of Benzoxazole Derivatives with Lateral Multifluoro Substituents	Liquid Crystals	2019, 46(1), 59-66	An, Zhongwei	II
201	Preparation and Mesomorphic Properties of 1-methyl-1H-benzimidazole-based Compounds	Liquid Crystals	2019, 46(1), 131-137	An, Zhongwei	II
202	High-frame-rate Liquid Crystal Phase Modulator for Augmented Reality Displays	Liquid Crystals	2019, 46(2), 309-315	An, Zhongwei	II
203	A Thermo- and Moisture-Responsive Zwitterionic Shape Memory Polymer for Novel Self-Healable Wound Dressing Applications	Macromolecular Materials And Engineering	2019, 304(3), 1800603	Liu, Zhongwen	II

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204	pH-Dependent Morphology and Photoresponse of Azopyridine-Terminated Poly(N-isopropylacrylamide) Nanoparticles in Water	Macromolecules	2019, 52(8), 2939-2948	Yang, Peng	II
205	Polymerizable Nonconventional Gel Emulsions and Their Utilization in the Template Preparation of Low-Density, High-Strength Polymeric Monoliths and 3D Printing	Macromolecules	2019, 52(6), 2456-2463	Fang, Yu;	II
206	Selective Hydrogenation of Quinolines over a CoCu Bimetallic Catalyst at Low Temperature	Molecular Catalysis	2019, 470, 120-126	Liu, Zhaotie	II
207	Thin NiFeCr-LDHs Nanosheets Promoted by g-C ₃ N ₄ : A Highly Active Electrocatalyst for Oxygen Evolution Reaction	Nanotechnology	2019, 30(49), 494001	Xu, Chunli	II
208	Chemical Vapor Deposition Growth of Sub-centimeter Single Crystal WSe ₂ Monolayer by NaCl-assistant	Nanotechnology	2019, 30(3), 34001	Xu, Hua	II
209	Interfacial TiO ₂ Atomic Layer Deposition Triggers Simultaneous Crystallization Control and Band Alignment for Efficient CsPbIBr ₂ Perovskite Solar Cell	Organic Electronics	2019, 74, 103-109	Liu, Shengzhong	II
210	Resolving the Detrimental Interface in Co-evaporated MAPbI(3) Perovskite Solar Cells by Hybrid Growth Method	Organic Electronics	2019, 69, 329-335		II
211	Effect of Carrier Lipophilicity and Preparation Method on the Properties of Andrographolide-Solid Dispersion	Pharmaceutics	2019, 11(2), 74	Wang, Changhao	II
212	Understanding the Intramolecular Vibrational Energy Transfer and Structural Dynamics of Anionic Ligands in a Photo-catalytic CO ₂ Reduction Catalyst	Physical Chemistry Chemical Physics	2019, 21(41), 23026-23035	Bian, Hongtao	II
213	Light, Temperature, and pH Control of Aqueous Azopyridine-terminated Poly(N-isopropylacrylamide) Solutions	Polymer Chemistry	2019, 10(37), 5080-5086	Yang, Peng	II

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214	Synthesis of Thermo-Responsive Block-Graft Copolymer Based on PCL and PEG Analogs, and Preparation of Hydrogel via Click Chemistry	Polymers	2019, 11(5), 765	Liu, Shouxin	II
215	Synthesis of Silver Nanoparticles Loaded onto Polymer-Inorganic Composite Materials and Their Regulated Catalytic Activity	Polymers	2019, 11(3), 401	Zhang, Ying	II
216	Synthesis and Adsorption Properties of Amphoteric Adsorbent HA(x)/CMC-yAl	Separation And Purification Technology	2019, 221, 338-348	Bai, Yunshan	II
217	Highly Efficient and Stable Planar CsPbI ₂ Br Perovskite Solar Cell with a New Sensitive-dopant-free Hole Transport Layer Obtained via an Effective Surface Passivation	Solar Energy Materials And Solar Cells	2019, 201, 110052	Liu, Shengzhong	II
218	Adsorption of Cholesterol Oxidase and Entrapment of Horseradish Peroxidase in Metal-organic Frameworks for the Colorimetric Biosensing of Cholesterol	Talanta	2019, 200, 293-299	Zhang, Yaodong	II
219	Organometallic Titanocene Complex as Highly Efficient Bifunctional Catalyst for Intramolecular Mannich Reaction	Applied Organometallic Chemistry	2019, 33(7), e4925	Gao, Ziwei	SCI
220	One-Pot Synthesis of Indoles from Aniline and alpha,beta-Ynones through an Iodine-Mediated Transition-Metal-Free Tandem aza-Michael addition/C-H Functionalization	Asian Journal of Organic Chemistry	2019, 8(4), 482-486	Gao, Ziwei	SCI
221	Quantitative Analysis of Annealing-induced Instabilities of Photo-leakage Current and Negative-bias-illumination-stress in a-InGaZnO Thin-film Transistors	Beilstein Journal of Nanotechnology	2019, 10, 1125-1130	Wang, Dapeng	SCI
222	Facile Synthesis of Chitosan/gelatin Filled with Graphene Bead Adsorbent for Orange II Removal	Chemical Engineering Research & Design	2019, 144, 35-46	Bai, Yunshan	SCI

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223	Ultra-thin Co-Fe Layered Double Hydroxide Hollow Nanocubes for Efficient Electrocatalytic Water Oxidation	Chemphyschem	2019, 20(22), 2964-2967	Cao, Rui	SCI
224	Graphitic Carbon Nitride (g-C ₃ N ₄) Supported Palladium Species: An Efficient Heterogeneous Photocatalyst Surpassing Homogeneous Thermal Heating Systems for Suzuki Coupling	Chempluschem	2019, 84(8), 1164-1168	Jiang, Ruibin	SCI
225	Revisiting Reactions of Alkynes with Ru-3(CO)(12) : Effects of Alkyne Substituents and Solvents on the Structures of Ruthenium Cluster Products	Inorganica Chimica Acta	2019, 485, 20-25	Gao, Ziwei	SCI
226	Vibronic Fingerprint of Singlet Fission in Hexacene	Journal of Chemical Physics	2019, 151(5), 54703	Bian, Hongtao	SCI
227	One-pot Conversion of Carbohydrates into Gamma-valerolactone under the Coordination of Heteropoly Acid Based Ionic Liquid and Ru/ZrO ₂ in Water Media	Journal of Chemical Technology And Biotechnology	2019, 94(7), 2355-2363	Dong, Wensheng	SCI
228	The Conversion of Glycerol to Methyl Lactate Catalyzed by Tin-exchanged Montmorillonite-supported Gold Catalysts	Journal of Chemical Technology And Biotechnology	2019, 94(6), 1958-1967	Dong, Wensheng	SCI
229	Preparation and Electro Responsive Properties of Mg-doped BaTiO ₃ with Novel Morphologies	Journal of Materials Science-Materials In Electronics	2019, 30(13), 12107-12112	Gao, Lingxiang	SCI
230	Synthesis of Supported Ag/AgCl Composite Materials and Their Photocatalytic Activity	Journal of Photochemistry And Photobiology A-Chemistry	2019, 376, 43-53	Zhang, Ying	SCI
231	Selective Turn-on Sensing of Cu ²⁺ and Cl ⁻ by a Ferrocene-modified Pyrene Derivative	Journal of Photochemistry And Photobiology A-Chemistry	2019, 374, 131-137	Ding, Liping	SCI
232	Enhanced Light Absorption of Textured Perovskite Solar Cells Employing Two-dimensional Nanoarrays	Journal of Photonics For Energy	2019, 9(3), 37001	Ming, Chen	SCI

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233	Desensitizing Effect of Graphene Oxide on Thermolysis Mechanisms of 4,4'-Azo-1,2,4-triazole Studied by Reactive Molecular Dynamics Simulations	Journal of Physical Chemistry A	2019, 123(7), 1285-1294	Zhang, Guofang	SCI
234	Ultrafast Hydrogen Bond Exchanging between Water and Anions in Concentrated Ionic Liquid Aqueous Solutions	Journal of Physical Chemistry B	2019, 123(22), 4766-4775	Fang, Yu;	SCI
235	Collaborative Optimization of Thermal Budget Annealing and Active Layer Defect Content Enhancing Electrical Characteristics and Bias Stress Stability in InGaZnO Thin-film Transistors	Journal of Physics D-Applied Physics	2019, 52(23), 235101	Wang, Dapeng	SCI
236	Backbone-Hydrolyzable Poly(oligo(ethylene glycol) bis(glycidyl ether)-alt-ketoglutaric acid) with Tunable LCST Behavior	Macromolecular Chemistry And Physics	2019, 220(12), 1900004	Liu, Zhongwen	SCI
237	CO-Releasing Materials: An Emphasis on Therapeutic Implications, as Release and Subsequent Cytotoxicity Are the Part of Therapy	Materials	2019, 12(10), 1643	Gao, Ziwei	SCI
238	Surface Modification of Nano Pd and its Application in Selective Dechlorination Reaction	Materials Letters	2019, 238, 31-34	Liu, Zhaotie	SCI
239	A Carboxylic Acid Functionalized SBA-15 Supported Pd Nanocatalyst: an Efficient Catalyst for Hydrogenation of Nitrobenzene to Aniline in Water	New Journal of Chemistry	2019, 43(30), 11871-11875	Liu, Zhongwen	SCI
240	The Formation and Physicochemical Properties of PEGylated Deep Eutectic Solvents	New Journal of Chemistry	2019, 43(22), 8804-8810	Liu, Zhaotie	SCI
241	Unexpected Formation and Conversion: Role of Substituents of 1,3-ynones in the Reactivity and Product Distribution during Their Reactions with Ru-3(CO)(12)	New Journal of Chemistry	2019, 43(3), 1478-1486	Gao, Ziwei	SCI
242	High-quality Vanadium-doped MoS ₂ Ultrathin Nanosheets as an Efficient ORR Catalyst	New Journal of Chemistry	2019, 43(3), 1611-1616	Zhang, Ying	SCI

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243	Rhodium(III)-catalyzed Chemoselective C-H Functionalization of Benzamides with Methyleneoxetanones Controlled by the Solvent	Organic & Biomolecular Chemistry	2019, 17(25), 6114-6118	Li, Xingwei	SCI
244	Study on the Thermal Decomposition Mechanism of Graphene Oxide Functionalized with Triaminoguanidine (GO-TAG) by Molecular Reactive Dynamics and Experiments	RSC Advances	2019, 9(57), 33268-33281	Zhang, Guofang	SCI
245	Fabrication and Excellent Electroresponsive Properties of Ideal PMMA@BaTiO ₃ Composite Particles	RSC Advances	2019, 9(22), 12404-12414	Gao, Lingxiang	SCI
246	A Straightforward Chemical Approach for Excellent In ₂ S ₃ Electron Transport Layer for High-efficiency Perovskite Solar Cells	RSC Advances	2019, 9(2), 884-890	Liu, Shengzhong	SCI
247	Diverse Synthesis of Pyrimido[1,2-a]benzimidazoles and Imidazo[2,1-b]benzothiazoles via CuI-catalyzed Decarboxylic Multicomponent Reactions of Heterocyclic Azoles, Aldehydes and Alkynecarboxylic Acids	Tetrahedron	2019, 75(8), 1052-1063	Chai, Yonghai	SCI
248	Switching Carbon Nanodots from Single Emission to Dual Emission by One-Step Electrochemical Tailoring in Alkaline Alcohols: Implications for Sensing and Bioimaging	ACS Applied Nano Materials	2019, 2(5), 2776-2784	Zhang, Chengxiao	SCI
249	A Versatile Strategy for Tailoring Noble Metal Supramolecular Gels/Aerogels and Their Application in Hydrogen Evolution	ACS Applied Nano Materials	2019, 2(5), 3012-3020	Fang, Yu;	SCI
250	A Novel Strategy to Synthesize Dual-responsive Polymeric Nanocarriers for Investigating the Activity and Stability of Immobilized Pectinase	Biotechnology And Applied Biochemistry	2019, 66(3), 376-388	Lei, Zhongli	SCI
251	Catalytic Oxidative Dehydrogenation of n-Butane on Gallium Nitride-Containing Titanosilicate Catalyst	Canadian Journal of Chemical Engineering	2019, 97(12), 3115-3124	Liu, Zhongwen	SCI

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252	Precious Metal Nanoparticles Supported on KOH Pretreated Activated Carbon under Microwave Radiation as a Catalyst for Selective Hydrogenation of Cinnamaldehyde	Canadian Journal of Chemical Engineering	2019, 97(9), 2505-2515	Liu, Zhongwen	SCI
253	Effect of Amphiphilic Quaternary Ammonium Salt Additive on Performance and Stability of Perovskite Solar Cells	Chemical Journal of Chinese Universities-Chinese	2019, 40(8), 1697-1705	Liu, Shengzhong	SCI
254	Glycerol Esterification to Glyceryl Diacetate over $\text{SO}_4^{2-}/\text{W-Zr}$ Complex Solid Super Acid Catalysts	Chemistryselect	2019, 4(9), 2780-2786	Dong, Wensheng	SCI
255	Liquid Crystal Beam Steering Devices: Principles, Recent Advances, and Future Developments	Crystals	2019, 9(6), 292		SCI
256	TiO_2/SGNs as Photocatalyst for Degradation of Water Pollutants	Desalination And Water Treatment	2019, 161, 171-180	Bai, Yunshan	SCI
257	Design of a Test Bench for Gas Leaks using CFD Simulation and IR-thermography Detection	Environmental Technology	2019, 1636144,	Zhang, Guofang	SCI
258	Surface Modification of Polyimide by Combining Swelling and TiO_2 Photocatalytic Treatments for Adhesion Improvement of Electroless Cu	Journal of Adhesion Science And Technology	2019, 33(4), 371-381	Wang, Zenglin	SCI
259	Synthesis of Light and Dual-redox Triple-stimuli-responsive Core-crosslinked Micelles as Nanocarriers for Controlled Release	Journal of Applied Polymer Science	2019, 136(37), 47946	Lei, Zhongli	SCI
260	Polyelectrolytes Fabrication on Magnesium Alloy Surface by Layer-by-layer Assembly Technique with Antiplatelet Adhesion and Antibacterial Activities	Journal of Coatings Technology And Research	2019, 16(3), 857-868	Wang, Changhao	SCI
261	Interactions between Apolar, Basic and Acidic Model Oils and a Calcite Surface	Journal of Dispersion Science And Technology	2019, 40(11), 1611-1617	Liu Xiaoyan	SCI
262	Inverted Planar $\text{NH}_2\text{CH} = \text{NH}(2)\text{PbI}(3)$ Perovskite Solar Cells via Single-Step Deposition Processing	Journal of Nanoscience And Nanotechnology	2019, 19(9), 5937-5941	Yang, Dong	SCI

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263	Advances in Optical Assays for Detecting Telomerase Activity	Luminescence	2019, 34(2), 136-152	Li, Baoxin	SCI
264	Regulation of Circular Dichroism Behavior and Construction of Tunable Solid-state Circularly Polarized Luminescence Based on BINOL Derivatives	Materials Chemistry Frontiers	2019, 3(8), 1613-1618	Li, Nan	SCI
265	A film-based Fluorescent Device for Vapor Phase Detection of Acetone and Related Peroxide Explosives	Materials Chemistry Frontiers	2019, 3(6), 1218-1224	Fang, Yu;	SCI
266	(TiO ₂ (B) Nanosheet)/(Metallic Phase MoS ₂) Hybrid Nanostructures: An Efficient Catalyst for Photocatalytic Hydrogen Evolution	Solar RRL	2019, 3(12), 1900323	Liu, Zonghuai	SCI
267	Chemical Bath Deposition of Co-Doped TiO ₂ Electron Transport Layer for Hysteresis-Suppressed High-Efficiency Planar Perovskite Solar Cells	Solar RRL	2019, 3(9), 1900176	Liu, Shengzhong	SCI
268	High-Performance Inverted Perovskite Solar Cells by Reducing Electron Capture Region for Electron Transport Layers	Solar RRL	2019, 3(9), 1900207	Liu, Shengzhong	SCI
269	Simultaneous Cesium and Acetate Coalloying Improves Efficiency and Stability of FA(0.85)MA(0.15)PbI(3) Perovskite Solar Cell with an Efficiency of 21.95%	Solar RRL	2019, 3(9), 1900220	Liu, Shengzhong	SCI
270	Low-Temperature Solution-Processed ZnO Electron Transport Layer for Highly Efficient and Stable Planar Perovskite Solar Cells with Efficiency Over 20%	Solar RRL	2019, 3(7), 1900096	Liu, Shengzhong	SCI
271	Novel Surface Passivation for Stable FA(0.85)MA(0.15)PbI(3) Perovskite Solar Cells with 21.6% Efficiency	Solar RRL	2019, 3(7), 1900072	Liu, Shengzhong	SCI
272	Introduction of Fluorine Into spiro[fluorene-9,9'-xanthene]-Based Hole Transport Material to Obtain Sensitive-Dopant-Free, High Efficient and Stable Perovskite Solar Cells	Solar RRL	2019, 3(4), 1800352	Liu, Zhike	SCI

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273	Room-Temperature Surface Sulfurization for High-Performance Kesterite CZTSe Solar Cells	Solar RRL	2019, 3(1), 1800236	Liu, Shengzhong	SCI
274	Controllable Construction of Oxygen Vacancies by Anaerobic Catalytic Combustion of Dichloromethane over Metal Oxides for Enhanced Solar-to-hydrogen Conversion	Sustainable Energy & Fuels	2019, 3(10), 2742-2752	Gao, Ziwei	SCI
275	Synthesis and Characterization of a Dinuclear Nitrogen-Rich Ferrocenyl Ligand and Its Ionic Coordination Compounds and Their Catalytic Effects During Combustion	Zeitschrift Fur Anorganische Und Allgemeine Chemie	2019, 645(2), 92-100	Zhang, Guofang	SCI
276	Ferrocenyl Ionic Compounds Containing [Fe(CN)(6)](3-) Anions: Synthesis, Characterization, and Catalytic Effects during Combustion	Zeitschrift Fur Anorganische Und Allgemeine Chemie	2019, 645(1), 14-21	Zhang, Guofang	SCI
277	Chemical Synthesis, Purification, and Characterization of 3'-5'-linked Canonical Cyclic Dinucleotides (CDNs)	Dna Sensors And Inflammasomes	2019, 625, 41-59	Wang, Changhao	SCI
278	Scalable Ambient Fabrication of High-Performance CsPbI2Br Solar Cells	Joule	2019, 3(10), 2485-2502	Liu, Shengzhong	SCI
279	Conjugated Polymers-Based Thermal-Responsive Nanoparticles for Controlled Drug Delivery, Tracking, and Synergistic Photodynamic Therapy/Chemotherapy	ACS Applied Bio Materials	2019, 2(10), 4485-4492	Tang, Yanli	SCI
280	囊泡型荧光纳米界面的构建及其对 CD44 蛋白的比例型传感	中国科学	2019, 49(11), 1-9	刘静	SCI