

Xin-Hao Li

List of Publications by Year in descending order

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110
papers

9,130
citations

57631

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39575

94
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121
all docs

121
docs citations

121
times ranked

11649
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal nanoparticles at mesoporous N-doped carbons and carbon nitrides: functional Mott-Schottky heterojunctions for catalysis. <i>Chemical Society Reviews</i> , 2013, 42, 6593.	18.7	713
2	Metal-Free Activation of Dioxygen by Graphene/g-C ₃ N ₄ Nanocomposites: Functional Dyads for Selective Oxidation of Saturated Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2011, 133, 8074-8077.	6.6	567
3	Janus Co/CoP Nanoparticles as Efficient Mott-Schottky Electrocatalysts for Overall Water Splitting in Wide pH Range. <i>Advanced Energy Materials</i> , 2017, 7, 1602355.	10.2	482
4	Surface and Interface Engineering of Electrode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2015, 27, 527-545.	11.1	426
5	Condensed Graphitic Carbon Nitride Nanorods by Nanoconfinement: Promotion of Crystallinity on Photocatalytic Conversion. <i>Chemistry of Materials</i> , 2011, 23, 4344-4348.	3.2	393
6	Mesoporous g-C ₃ N ₄ nanorods as multifunctional supports of ultrafine metal nanoparticles: hydrogen generation from water and reduction of nitrophenol with tandem catalysis in one step. <i>Chemical Science</i> , 2012, 3, 2170.	3.7	391
7	Synthesis of Monolayer-Patched Graphene from Glucose. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9689-9692.	7.2	377
8	Activating Cobalt Nanoparticles via the Mott-Schottky Effect in Nitrogen-Rich Carbon Shells for Base-Free Aerobic Oxidation of Alcohols to Esters. <i>Journal of the American Chemical Society</i> , 2017, 139, 811-818.	6.6	351
9	Utilizing the Space-Charge Region of the FeNi-LDH/CoP p-n Junction to Promote Performance in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11903-11909.	7.2	329
10	Electrochemical Reduction of N ₂ into NH ₃ by Donor-Acceptor Couples of Ni and Au Nanoparticles with a 67.8% Faradaic Efficiency. <i>Journal of the American Chemical Society</i> , 2019, 141, 14976-14980.	6.6	290
11	Solvent-Free and Metal-Free Oxidation of Toluene Using O ₂ and g-C ₃ N ₄ with Nanopores: Nanostructure Boosts the Catalytic Selectivity. <i>ACS Catalysis</i> , 2012, 2, 2082-2086.	5.5	227
12	2D/2D Heterojunctions for Catalysis. <i>Advanced Science</i> , 2019, 6, 1801702.	5.6	224
13	Polycondensation of Boron- and Nitrogen-Codoped Holey Graphene Monoliths from Molecules: Carbocatalysts for Selective Oxidation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4572-4576.	7.2	215
14	Highly Efficient Dehydrogenation of Formic Acid over a Palladium-Nanoparticle-Based Mott-Schottky Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11822-11825.	7.2	210
15	Boosting selective nitrogen reduction to ammonia on electron-deficient copper nanoparticles. <i>Nature Communications</i> , 2019, 10, 4380.	5.8	203
16	Encapsulating Palladium Nanoparticles Inside Mesoporous MFI Zeolite Nanocrystals for Shape-Selective Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9178-9182.	7.2	174
17	Facilitating room-temperature Suzuki coupling reaction with light: Mott-Schottky photocatalyst for C-C-coupling. <i>Scientific Reports</i> , 2013, 3, .	1.6	165
18	Strongly Veined Carbon Nanoleaves as a Highly Efficient Metal-Free Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6905-6909.	7.2	156

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19	Synthesis of Amphiphilic Superparamagnetic Ferrite/Block Copolymer Hollow Submicrospheres. <i>Journal of the American Chemical Society</i> , 2006, 128, 8382-8383.	6.6	141
20	Multifunctional Au@Co@CN Nanocatalyst for Highly Efficient Hydrolysis of Ammonia Borane. <i>ACS Catalysis</i> , 2015, 5, 388-392.	5.5	135
21	Palladium/Graphitic Carbon Nitride ($g\text{-C}_3\text{N}_4$) Stabilized Emulsion Microreactor as a Store for Hydrogen from Ammonia Borane for Use in Alkene Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14857-14861.	7.2	135
22	Schottky Barrier Induced Coupled Interface of Electron-Rich N-Doped Carbon and Electron-Deficient Cu: In-Built Lewis Acid-Base Pairs for Highly Efficient CO_2 Fixation. <i>Journal of the American Chemical Society</i> , 2019, 141, 38-41.	6.6	123
23	Anchoring Cobalt Nanocrystals through the Plane of Graphene: Highly Integrated Electrocatalyst for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2015, 27, 544-549.	3.2	95
24	Nitrogen-doped graphene microtubes with opened inner voids: Highly efficient metal-free electrocatalysts for alkaline hydrogen evolution reaction. <i>Nano Research</i> , 2016, 9, 2606-2615.	5.8	92
25	Tuning the Adsorption Energy of Methanol Molecules Along Ni-Doped Carbon Phase Boundaries by the Mott-Schottky Effect for Gas-Phase Methanol Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2697-2701.	7.2	91
26	Poly(tetrabutylphosphonium 4-styrenesulfonate): a poly(ionic liquid) stabilizer for graphene being multi-responsive. <i>Polymer Chemistry</i> , 2012, 3, 871.	1.9	90
27	Oxygen Vacancy Engineering of Co_3O_4 Nanocrystals through Coupling with Metal Support for Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 2875-2879.	3.6	88
28	Hierarchical carbon nanopapers coupled with ultrathin MoS ₂ nanosheets: Highly efficient large-area electrodes for hydrogen evolution. <i>Nano Energy</i> , 2015, 15, 335-342.	8.2	81
29	Room-temperature transfer hydrogenation and fast separation of unsaturated compounds over heterogeneous catalysts in an aqueous solution of formic acid. <i>Green Chemistry</i> , 2014, 16, 3746-3751.	4.6	79
30	Controlled Synthesis, Growth Mechanism, and Properties of Monodisperse CdS Colloidal Spheres. <i>Chemistry - A European Journal</i> , 2007, 13, 8754-8761.	1.7	71
31	Enriching Co nanoparticles inside carbon nanofibers via nanoscale assembly of metal-organic complexes for highly efficient hydrogen evolution. <i>Nano Energy</i> , 2016, 22, 79-86.	8.2	68
32	Schottky Barrier-Induced Surface Electric Field Boosts Universal Reduction of NO_x in Water to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20711-20716.	7.2	68
33	A COOH-terminated nitrogen-doped carbon aerogel as a bulk electrode for completely selective two-electron oxygen reduction to H_2O_2 . <i>Chemical Communications</i> , 2019, 55, 6173-6176.	2.2	66
34	Polarized few-layer g-C ₃ N ₄ as metal-free electrocatalyst for highly efficient reduction of CO ₂ . <i>Nano Research</i> , 2018, 11, 2450-2459.	5.8	65
35	In situ catalytic growth of large-area multilayered graphene/MoS ₂ heterostructures. <i>Scientific Reports</i> , 2014, 4, 4673.	1.6	58
36	Constructing holey graphene monoliths via supramolecular assembly: Enriching nitrogen heteroatoms up to the theoretical limit for hydrogen evolution reaction. <i>Nano Energy</i> , 2015, 15, 567-575.	8.2	57

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37	Atomic-Scale Mott-Schottky Heterojunctions of Boron Nitride Monolayer and Graphene as Metal-Free Photocatalysts for Artificial Photosynthesis. <i>Advanced Science</i> , 2018, 5, 1800062.	5.6	54
38	A Green Chemistry of Graphene: Photochemical Reduction towards Monolayer Graphene Sheets and the Role of Water Adlayers. <i>ChemSusChem</i> , 2012, 5, 642-646.	3.6	52
39	Heterojunction-Based Electron Donators to Stabilize and Activate Ultrafine Pt Nanoparticles for Efficient Hydrogen Atom Dissociation and Gas Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25766-25770.	7.2	52
40	Heterometal Alkoxides as Precursors for the Preparation of Porous Fe and Mn-TiO ₂ Photocatalysts with High Efficiencies. <i>Chemistry - A European Journal</i> , 2008, 14, 11123-11131.	1.7	50
41	Wrinkled Graphene Monoliths as Superabsorbing Building Blocks for Superhydrophobic and Superhydrophilic Surfaces. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15165-15169.	7.2	45
42	Grouping Effect of Single Nickel-N ₄ Sites in Nitrogen-Doped Carbon Boosts Hydrogen Transfer Coupling of Alcohols and Amines. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15194-15198.	7.2	43
43	Photochemically Engineering the Metal-Semiconductor Interface for Room-Temperature Transfer Hydrogenation of Nitroarenes with Formic Acid. <i>Chemistry - A European Journal</i> , 2014, 20, 16732-16737.	1.7	42
44	Constructing Ohmic contact in cobalt selenide/Ti dyadic electrode: The third aspect to promote the oxygen evolution reaction. <i>Nano Energy</i> , 2017, 39, 321-327.	8.2	39
45	General transfer hydrogenation by activating ammonia-borane over cobalt nanoparticles. <i>RSC Advances</i> , 2015, 5, 102736-102740.	1.7	38
46	A Polyimide Nanolayer as a Metal-Free and Durable Organic Electrode Toward Highly Efficient Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12563-12566.	7.2	36
47	Co ₃ O ₄ -based binder-free cathodes for lithium-oxygen batteries with improved cycling stability. <i>Dalton Transactions</i> , 2015, 44, 8678-8684.	1.6	35
48	Activating Oxygen Molecules over Carbonyl-Modified Graphitic Carbon Nitride: Merging Supramolecular Oxidation with Photocatalysis in a Metal-Free Catalyst for Oxidative Coupling of Amines into Imines. <i>ChemCatChem</i> , 2016, 8, 3441-3445.	1.8	35
49	Converting waste paper to multifunctional graphene-decorated carbon paper: from trash to treasure. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13926-13932.	5.2	34
50	Nanoscale Kirkendall growth of silicalite-1 zeolite mesocrystals with controlled mesoporosity and size. <i>Chemical Communications</i> , 2015, 51, 12563-12566.	2.2	30
51	Ultra-durable two-electrode Zn-air secondary batteries based on bifunctional titania nanocatalysts: a Co ²⁺ dopant boosts the electrochemical activity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7841-7847.	5.2	30
52	Mild and selective hydrogenation of CO ₂ into formic acid over electron-rich MoC nanocatalysts. <i>Science Bulletin</i> , 2020, 65, 651-657.	4.3	30
53	The crystallinity effect of mesocrystalline BaZrO ₃ hollow nanospheres on charge separation for photocatalysis. <i>Chemical Communications</i> , 2014, 50, 3021-3023.	2.2	29
54	Enhanced oxygen electroreduction over nitrogen-free carbon nanotube-supported CuFeO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4331-4336.	5.2	27

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55	Isoelectric Si Heteroatoms as Electron Traps for N ₂ Fixation and Activation. <i>Advanced Functional Materials</i> , 2020, 30, 2005779.	7.8	26
56	Effect of Surface Cations on Photoelectric Conversion Property of Nanosized Zirconia. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9114-9120.	1.5	24
57	Activating Pd nanoparticles on sol-gel prepared porous g-C ₃ N ₄ /SiO ₂ via enlarging the Schottky barrier for efficient dehydrogenation of formic acid. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1124-1129.	3.0	24
58	Mesoporous H-ZSM-5 nanocrystals with programmable number of acid sites as solid ligands to activate Pd nanoparticles for C-C coupling reactions. <i>Nano Research</i> , 2018, 11, 874-881.	5.8	24
59	Engineering the Interfaces of Superadsorbing Graphene-Based Electrodes with Gas and Electrolyte to Boost Gas Evolution and Activation Reactions. <i>ChemSusChem</i> , 2018, 11, 2306-2309.	3.6	24
60	Electrochemical activation of H by electron-deficient W ₂ C nanocrystals for simultaneous alkoxylation and hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 3882.	5.8	24
61	Programmable synthesis of mesoporous ZSM-5 nanocrystals as selective and stable catalysts for the methanol-to-propylene process. <i>Catalysis Science and Technology</i> , 2016, 6, 5262-5266.	2.1	23
62	Synergy of Fe-N ₄ and non-coordinated boron atoms for highly selective oxidation of amine into nitrile. <i>Nano Research</i> , 2020, 13, 2079-2084.	5.8	23
63	Boosting Mass Exchange between Pd/NC and MoC/NC Dual Junctions via Electron Exchange for Cascade CO ₂ Fixation. <i>Journal of the American Chemical Society</i> , 2022, 144, 5418-5423.	6.6	21
64	Photocatalytic Stille Cross-coupling on Gold/g-C ₃ N ₄ Nano-heterojunction. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1013-1016.	1.3	20
65	Chemical fixation of CO ₂ on nanocarbons and hybrids. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20857-20873.	5.2	20
66	Spontaneous superlattice formation of ZnO nanocrystals capped with ionic liquid molecules. <i>Chemical Communications</i> , 2007, , 4131.	2.2	19
67	Accelerated room-temperature crystallization of ultrahigh-surface-area porous anatase titania by storing photogenerated electrons. <i>Chemical Communications</i> , 2017, 53, 1619-1621.	2.2	19
68	The solution-phase process of a g-C ₃ N ₄ /BiVO ₄ dyad to a large-area photoanode: interfacial synergy for highly efficient water oxidation. <i>Chemical Communications</i> , 2017, 53, 10544-10547.	2.2	19
69	Tuning the Adsorption Energy of Methanol Molecules Along Ni-Doped Carbon Phase Boundaries by the Mott-Schottky Effect for Gas-Phase Methanol Dehydrogenation. <i>Angewandte Chemie</i> , 2018, 130, 2727-2731.	1.6	19
70	Oriented arrays of Co ₃ O ₄ nanoneedles for highly efficient electrocatalytic water oxidation. <i>Chemical Communications</i> , 2019, 55, 3971-3974.	2.2	19
71	General Synthesis of Uniform Metal Sulfide Colloidal Particles via Autocatalytic Surface Growth: A Self-Correcting System. <i>Inorganic Chemistry</i> , 2009, 48, 3132-3138.	1.9	18
72	Bio-inspired noble metal-free reduction of nitroarenes using Ni _{2+x} /g-C ₃ N ₄ . <i>RSC Advances</i> , 2014, 4, 60873-60877.	1.7	18

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73	Palladium/Graphitic Carbon Nitride (g ₃ N ₄) Stabilized Emulsion Microreactor as a Store for Hydrogen from Ammonia Borane for Use in Alkene Hydrogenation. <i>Angewandte Chemie</i> , 2018, 130, 15073-15077.	1.6	18
74	Crystal Structure of the Ergothioneine Sulfoxide Synthase from <i>Candidatus Chloracidobacterium thermophilum</i> and Structure-Guided Engineering To Modulate Its Substrate Selectivity. <i>ACS Catalysis</i> , 2019, 9, 6955-6961.	5.5	18
75	Utilizing the Space-Charge Region of the FeNi-LDH/CoP p-n Junction to Promote Performance in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2019, 131, 12029-12035.	1.6	17
76	Single-Step Replacement of an Unreactive C-H Bond by a C-S Bond Using Polysulfide as the Direct Sulfur Source in the Anaerobic Ergothioneine Biosynthesis. <i>ACS Catalysis</i> , 2020, 10, 8981-8994.	5.5	15
77	Synergistic effect of Brønsted acid and platinum on purification of automobile exhaust gases. <i>Scientific Reports</i> , 2013, 3, 2349.	1.6	14
78	Mono-Atomic Fe Centers in Nitrogen/Carbon Monolayers for Liquid-Phase Selective Oxidation Reaction. <i>ChemCatChem</i> , 2018, 10, 3539-3545.	1.8	14
79	Facilitating Hot Electron Injection from Graphene to Semiconductor by Rectifying Contact for Visible-Driven H ₂ O ₂ Production. <i>Small</i> , 2022, 18, e2200885.	5.2	14
80	Chemical "top-down" synthesis of amphiphilic superparamagnetic Fe ₃ O ₄ nanobelts from exfoliated FeOCl layers. <i>Dalton Transactions</i> , 2014, 43, 16173-16177.	1.6	13
81	Atomically Dispersed Ni-Based Anti-Coking Catalysts for Methanol Dehydrogenation in a Fixed-Bed Reactor. <i>ACS Catalysis</i> , 2020, 10, 12569-12574.	5.5	13
82	Schottky Barrier-Induced Surface Electric Field Boosts Universal Reduction of NO _x in Water to Ammonia. <i>Angewandte Chemie</i> , 2021, 133, 20879-20884.	1.6	12
83	A Facile Route to Mesoporous Carbon Catalyst Support Modified with Magnetic Nanoparticles. <i>Chemistry Letters</i> , 2007, 36, 422-423.	0.7	11
84	Autoxidation of polythiophene tethered to carbon cloth boosts its electrocatalytic activity towards durable water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19793-19798.	5.2	11
85	Nitrogen-thermal modification of the bifunctional interfaces of transition metal/carbon dyads for the reversible hydrogenation and dehydrogenation of heteroarenes. <i>Chemical Communications</i> , 2019, 55, 11394-11397.	2.2	10
86	A Polyimide Nanolayer as a Metal-Free and Durable Organic Electrode Toward Highly Efficient Oxygen Evolution. <i>Angewandte Chemie</i> , 2018, 130, 12743-12746.	1.6	9
87	Photogenerated singlet oxygen over zeolite-confined carbon dots for shape selective catalysis. <i>Science China Chemistry</i> , 2019, 62, 434-439.	4.2	9
88	Biomimetic Design of a 3D Transition Metal/Carbon Dyad for the One-Step Hydrodeoxygenation of Vanillin. <i>ChemSusChem</i> , 2020, 13, 1900-1905.	3.6	9
89	Trapping oxygen in hierarchically porous carbon nano-nets: graphitic nitrogen dopants boost the electrocatalytic activity. <i>RSC Advances</i> , 2016, 6, 56765-56771.	1.7	8
90	Mesoporous TS-1 Nanocrystals as Low Cost and High Performance Catalysts for Epoxidation of Styrene. <i>Chinese Journal of Chemistry</i> , 2017, 35, 577-580.	2.6	8

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91	Designed electron-deficient gold nanoparticles for a room-temperature Csp ³ -Csp ³ coupling reaction. <i>Chemical Communications</i> , 2021, 57, 741-744.	2.2	8
92	Grouping Effect of Single Nickel ²⁺ N 4 Sites in Nitrogen-Doped Carbon Boosts Hydrogen Transfer Coupling of Alcohols and Amines. <i>Angewandte Chemie</i> , 2018, 130, 15414-15418.	1.6	7
93	Electrostatically mediated selectivity of Pd nanocatalyst via rectifying contact with semiconductor: Replace ligands with light. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 404-409.	10.8	7
94	Synergy of B and Al Dopants in Mesoporous MFI Nanocrystals for Highly Selective Alcoholysis of Furfuryl Alcohol into Ethyl Levulinate. <i>Energy Technology</i> , 2019, 7, 1900271.	1.8	7
95	Heterojunction-Based Electron Donators to Stabilize and Activate Ultrafine Pt Nanoparticles for Efficient Hydrogen Atom Dissociation and Gas Evolution. <i>Angewandte Chemie</i> , 2021, 133, 25970-25974.	1.6	7
96	A Polyimide-Based Photocatalyst for Continuous Hydrogen Peroxide Production Using Air and Water under Solar Light. <i>CCS Chemistry</i> , 2022, 4, 3482-3490.	4.6	7
97	Design of Functional Carbon Composite Materials for Energy Conversion and Storage. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 677-687.	1.3	7
98	Supramolecular nano-assemblies with tailorable surfaces: recyclable hard templates for engineering hollow nanocatalysts. <i>Science China Materials</i> , 2014, 57, 7-12.	3.5	6
99	Direct reduction of oxygen gas over dendritic carbons with hierarchical porosity: beyond the diffusion limitation. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2023-2030.	3.0	6
100	Use of Nitrogen-Containing Carbon Supports To Control the Acidity of Supported Heteropolyacid Model Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13999-14010.	1.8	5
101	Accelerating the Activation of NO _x on Ru Nanoparticles for Ammonia Production by Tuning Their Electron Deficiency. <i>CCS Chemistry</i> , 2022, 4, 3455-3462.	4.6	5
102	Formation of a built-in field at the porphyrin/ITO interface directly proven by the time-resolved photovoltage technique. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5202-5206.	1.3	4
103	A New Route to Cyclohexanone using H ₂ CO ₃ as a Molecular Catalytic Ligand to Boost the Thorough Hydrogenation of Nitroarenes over Pd Nanocatalysts. <i>ChemCatChem</i> , 2019, 11, 2837-2842.	1.8	4
104	A bioinspired microreactor with interfacial regulation for maximizing selectivity in a catalytic reaction. <i>Chemical Communications</i> , 2020, 56, 8059-8062.	2.2	4
105	Rapidly and mildly transferring anatase phase of graphene-activated TiO ₂ to rutile with elevated Schottky barrier: Facilitating interfacial hot electron injection for Vis-NIR driven photocatalysis. <i>Nano Research</i> , 2022, 15, 10142-10147.	5.8	4
106	Room-Temperature Activation of Molecular Oxygen Over a Metal-Free Triazine-Decorated sp ² -Carbon Framework for Green Synthesis. <i>ChemCatChem</i> , 2018, 10, 5331-5335.	1.8	3
107	Carbon monoliths with programmable valence bands as de novo anodes for additive-free coupling of alcohols into acetals. <i>FlatChem</i> , 2021, 27, 100248.	2.8	3
108	Semiconductor-based nanocomposites for selective organic synthesis. <i>Nano Select</i> , 2021, 2, 1799.	1.9	1

#	ARTICLE	IF	CITATIONS
109	Tunable Surface Electric Field of Electrocatalysts via Constructing Schottky Heterojunctions for Selective Conversion of Trash Ions to Treasures. Chemistry - A European Journal, 2022, 28, .	1.7	1
110	Frontispiece: Tunable Surface Electric Field of Electrocatalysts via Constructing Schottky Heterojunctions for Selective Conversion of Trash Ions to Treasures. Chemistry - A European Journal, 2022, 28, .	1.7	1