

Chong Xiao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

6,566
citations

38
h-index

81
g-index

88
ext. papers

7,581
ext. citations

11.5
avg, IF

5.98
L-index

#	Paper	IF	Citations
80	Vacancy associates promoting solar-driven photocatalytic activity of ultrathin bismuth oxychloride nanosheets. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10411-7	16.4	911
79	Low overpotential in vacancy-rich ultrathin CoSe ₂ nanosheets for water oxidation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15670-5	16.4	783
78	Photoinduced hydroxyl radical and photocatalytic activity of samarium-doped TiO ₂ (2) nanocrystalline. <i>Journal of Hazardous Materials</i> , 2008 , 150, 62-7	12.8	299
77	Heterogeneous Spin States in Ultrathin Nanosheets Induce Subtle Lattice Distortion To Trigger Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5087-92	16.4	277
76	Atomically thick bismuth selenide freestanding single layers achieving enhanced thermoelectric energy harvesting. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20294-7	16.4	244
75	Ultrathin two-dimensional inorganic materials: new opportunities for solid state nanochemistry. <i>Accounts of Chemical Research</i> , 2015 , 48, 3-12	24.3	222
74	Ultrathin Co ₃ S ₄ nanosheets that synergistically engineer spin states and exposed polyhedra that promote water oxidation under neutral conditions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11231-5	16.4	219
73	Photocatalytic degradation of methylene blue over Co ₃ O ₄ /Bi ₂ WO ₆ composite under visible light irradiation. <i>Catalysis Communications</i> , 2008 , 9, 1247-1253	3.2	209
72	General formation of complex tubular nanostructures of metal oxides for the oxygen reduction reaction and lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8643-7	16.4	179
71	Solar photocatalytic degradation of methylene blue in carbon-doped TiO ₂ nanoparticles suspension. <i>Solar Energy</i> , 2008 , 82, 706-713	6.8	170
70	Regulating the Charge and Spin Ordering of Two-Dimensional Ultrathin Solids for Electrocatalytic Water Splitting. <i>CheM</i> , 2018 , 4, 1263-1283	16.2	158
69	Superionic phase transition in silver chalcogenide nanocrystals realizing optimized thermoelectric performance. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4287-93	16.4	154
68	Vacancy Engineering for Tuning Electron and Phonon Structures of Two-Dimensional Materials. <i>Advanced Energy Materials</i> , 2016 , 6, 1600436	21.8	151
67	Dual Vacancies: An Effective Strategy Realizing Synergistic Optimization of Thermoelectric Property in BiCuSeO. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6587-93	16.4	145
66	High thermoelectric and reversible p-n-p conduction type switching integrated in dimetal chalcogenide. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18460-6	16.4	144
65	Pothole-rich Ultrathin WO Nanosheets that Trigger N≡N Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 731-735	16.4	125
64	Spatial location engineering of oxygen vacancies for optimized photocatalytic H ₂ evolution activity. <i>Small</i> , 2014 , 10, 2820-5, 2742	11	123

63	Promoting Photogenerated Holes Utilization in Pore-Rich WO ₃ Ultrathin Nanosheets for Efficient Oxygen-Evolving Photoanode. <i>Advanced Energy Materials</i> , 2016 , 6, 1600437	21.8	120
62	Vacancy associates-rich ultrathin nanosheets for high performance and flexible nonvolatile memory device. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3102-8	16.4	117
61	Local Electric Field Facilitates High-Performance Li-Ion Batteries. <i>ACS Nano</i> , 2017 , 11, 8519-8526	16.7	112
60	Defect Chemistry for Thermoelectric Materials. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14810-14819	16.4	109
59	Photocatalytic nitrogen fixation: the role of defects in photocatalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19616-19633	13	108
58	Ultrathin Co ₃ S ₄ Nanosheets that Synergistically Engineer Spin States and Exposed Polyhedra that Promote Water Oxidation under Neutral Conditions. <i>Angewandte Chemie</i> , 2015 , 127, 11383-11387	3.6	101
57	Photocatalytic decolorization of methylene blue over Zn _{1-x} Co _x O under visible light irradiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 142, 121-125	3.1	100
56	Decoupling interrelated parameters for designing high performance thermoelectric materials. <i>Accounts of Chemical Research</i> , 2014 , 47, 1287-95	24.3	86
55	The dominant {001} facet-dependent enhanced visible-light photoactivity of ultrathin BiOBr nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20909-14	3.6	86
54	Single atom accelerates ammonia photosynthesis. <i>Science China Chemistry</i> , 2018 , 61, 1187-1196	7.9	76
53	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5984-5993	16.4	72
52	Magnetic ions in wide band gap semiconductor nanocrystals for optimized thermoelectric properties. <i>Materials Horizons</i> , 2014 , 1, 81-86	14.4	70
51	Single Mo atom realized enhanced CO ₂ electro-reduction into formate on N-doped graphene. <i>Nano Energy</i> , 2019 , 61, 428-434	17.1	66
50	Solid-solutioned homojunction nanoplates with disordered lattice: a promising approach toward "phonon glass electron crystal" thermoelectric materials. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7971-7	16.4	65
49	Synthesis and photoluminescence of water-soluble Mn ²⁺ -doped ZnS quantum dots. <i>Applied Surface Science</i> , 2008 , 254, 6432-6435	6.7	63
48	Magnetocaloric effects in a freestanding and flexible graphene-based superlattice synthesized with a spatially confined reaction. <i>Nature Communications</i> , 2014 , 5, 3960	17.4	62
47	Surface-defect-states photoluminescence in CdS nanocrystals prepared by one-step aqueous synthesis method. <i>Applied Surface Science</i> , 2009 , 255, 7111-7114	6.7	57
46	Sonochemical synthesis of ZnO nanosheet. <i>Journal of Alloys and Compounds</i> , 2008 , 459, L18-L22	5.7	56

45	Ultrathin nanosheets of half-metallic monoclinic vanadium dioxide with a thermally induced phase transition. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7554-8	16.4	48
44	General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2013 , 125, 8805-8809	3.6	48
43	Electric-Field-Driven Dual Vacancies Evolution in Ultrathin Nanosheets Realizing Reversible Semiconductor to Half-Metal Transition. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15043-8	16.4	38
42	Strong enhancement of band-edge photoluminescence in CdS nanocrystals prepared by one-step aqueous synthesis method. <i>Journal of Luminescence</i> , 2008 , 128, 1942-1947	3.8	36
41	Design of Highly Efficient Thermoelectric Materials: Tailoring Reciprocal-Space Properties by Real-Space Modification. <i>Advanced Materials</i> , 2018 , 30, e1802000	24	35
40	Defects Engineering with Multiple Dimensions in Thermoelectric Materials. <i>Research</i> , 2020 , 2020, 9652749	4.9	33
39	Synthesis and photoluminescence of water-soluble Mn:ZnS/ZnS core/shell quantum dots using nucleation-doping strategy. <i>Optical Materials</i> , 2008 , 31, 455-460	3.3	31
38	Preparation and Characterization of Silica-Coated Magnetic-Fluorescent Bifunctional Microspheres. <i>Nanoscale Research Letters</i> , 2009 , 4, 1078-1084	5	29
37	Effects of samarium dopant on photocatalytic activity of TiO ₂ nanocrystallite for methylene blue degradation. <i>Journal of Materials Science</i> , 2007 , 42, 9194-9199	4.3	27
36	Quantum tunneling of magnetization in ultrasmall half-metallic V ₃ O ₄ quantum dots: displaying quantum superparamagnetic state. <i>Scientific Reports</i> , 2012 , 2, 755	4.9	24
35	A Thresholdless Tunable Raman Nanolaser using a ZnO-Graphene Superlattice. <i>Advanced Materials</i> , 2017 , 29, 1604351	24	15
34	A record thermoelectric efficiency in tellurium-free modules for low-grade waste heat recovery.. <i>Nature Communications</i> , 2022 , 13, 237	17.4	13
33	Intrinsic Negative Magnetoresistance in Van Der Waals FeNbTe Single Crystals. <i>Advanced Materials</i> , 2019 , 31, e1900246	24	10
32	The Expanding Energy Prospects of Metal Organic Frameworks. <i>Joule</i> , 2017 , 1, 25-28	27.8	10
31	Parasitic Ferromagnetism in Few-Layered Transition-Metal Chalcogenophosphate. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10849-10855	16.4	9
30	Efficient interlayer charge release for high-performance layered thermoelectrics. <i>National Science Review</i> , 2021 , 8, nwaa085	10.8	9
29	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. <i>Angewandte Chemie</i> , 2021 , 133, 6049-6058	3.6	9
28	Intrinsically Low Lattice Thermal Conductivity in Natural Superlattice (Bi ₂) _m (Bi ₂ Te ₃) _n Thermoelectric Materials. <i>Chemistry of Materials</i> , 2021 , 33, 1140-1148	9.6	9

27	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17494-17498	16.4	8
26	Charge Compensation Modulation of the Thermoelectric Properties in AgSbTe via Mn Amphoteric Doping. <i>Inorganic Chemistry</i> , 2019 , 58, 9205-9212	5.1	7
25	Designing a redox heterojunction for photocatalytic "overall nitrogen fixation" under mild conditions.. <i>Advanced Materials</i> , 2022 , e2200563	24	7
24	Dual Nanoislands on Ni/C Hybrid Nanosheet Activate Superior Hydrazine Oxidation-Assisted High-Efficiency H ₂ Production. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	6
23	Vacancy cluster-induced local disordered structure for the enhancement of thermoelectric property in Cu ₂ ZnSnSe ₄ . <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1006-1013	13	6
22	Shedding Light on the Role of Chemical Bond in Catalysis of Nitrogen Fixation. <i>Advanced Materials</i> , 2021 , 33, e2007891	24	6
21	Synthesis and Optimization of Chalcogenides Quantum Dots Thermoelectric Materials. <i>Springer Theses</i> , 2016 ,	0.1	5
20	Improved thermoelectric performance in n-type BiTe facilitated by defect engineering. <i>Rare Metals</i> , 2021 , 40, 2829-2837	5.5	5
19	When thermoelectric materials come across with magnetism. <i>Rare Metals</i> , 2021 , 40, 752-766	5.5	5
18	Evidence for Itinerant Carriers in an Anisotropic Narrow-Gap Semiconductor by Angle-Resolved Photoemission Spectroscopy. <i>Advanced Materials</i> , 2018 , 30, 1704733	24	5
17	Ce-Doped WO Nanowires for Tuning N Activation toward Direct Nitrate Photosynthesis. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11295-11302	6.4	4
16	Layered thermoelectric materials: Structure, bonding, and performance mechanisms. <i>Applied Physics Reviews</i> , 2022 , 9, 011303	17.3	4
15	Constructing charge transfer channel between dopants and oxygen vacancies for enhanced visible-light-driven water oxidation. <i>Nano Research</i> , 2021 , 14, 3365-3371	10	4
14	Strategies for discovery and optimization of thermoelectric materials: Role of real objects and local fields. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	4
13	Defect evolution during the phase transition of hexagonal nickel sulfide studied by positron annihilation spectroscopy. <i>Solid State Communications</i> , 2015 , 202, 64-68	1.6	3
12	Monolayer Behavior of NbS ₂ in Natural van der Waals Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6421-6425	6.4	3
11	Coexistence of large positive and negative magnetoresistance in Cr ₂ Si ₂ Te ₆ ferromagnetic semiconductor. <i>Science China Materials</i> , 1	7.1	2
10	Defect Compensation Weakening Induced Mobility Enhancement in Thermoelectric BiTeI by Iodine Deficiency. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 4124-4129	4.5	1

9	Röntgenbild: General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium-Ion Batteries (Angew. Chem. 33/2013). <i>Angewandte Chemie</i> , 2013 , 125, 8916-8916	3.6	1
8	Enhanced syngas production from CO photoreduction over CoPd alloy modified NiAl-LDH under visible light. <i>Chemical Communications</i> , 2021 , 57, 11629-11632	5.8	1
7	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 17647-17651	3.6	0
6	One-Dimensional Frenkel Chain Defects in CsBiTe. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5319-5323	5.3	0
5	Magnetic Ions Dope Wide Band-Gap Semiconductor Nanocrystals Realizing Decoupled Optimization of Thermoelectric Properties. <i>Springer Theses</i> , 2016 , 79-90	0.1	
4	Two Metal Ion Exchange Realizing Efficient Thermoelectric Properties and p-n Conduction Type Transition. <i>Springer Theses</i> , 2016 , 51-64	0.1	
3	Magnetic Ions Fully Substituted Wide Band-Gap Semiconductor Nanocrystals for Decoupled Optimization of Thermoelectric Properties. <i>Springer Theses</i> , 2016 , 91-102	0.1	
2	Pothole-rich Ultrathin WO ₃ Nanosheets that Trigger N ₂ Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. <i>Angewandte Chemie</i> , 2018 , 131, 741	3.6	
1	Phonon Symphony of Stacked of Multilayer and Weakly Bond Lowering Lattice Thermal Conductivity. <i>Advanced Materials</i> , 2020 , 32, 202677	24	