Chong Xiao

List of Publications by Year in Descending Order

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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	A record thermoelectric efficiency in tellurium-free modules for low-grade waste heat recovery.. *Nature Communications*, **2022**, 13, 237	17.4	13
79	Layered thermoelectric materials: Structure, bonding, and performance mechanisms. *Applied Physics Reviews*, **2022**, 9, 011303	17.3	4
78	Designing a redox heterojunction for photocatalytic "overall nitrogen fixation" under mild conditions.. *Advanced Materials*, **2022**, e2200563	24	7
77	Dual Nanoislands on Ni/C Hybrid Nanosheet Activate Superior Hydrazine Oxidation-Assisted High-Efficiency H Production. *Angewandte Chemie - International Edition*, **2021**,	16.4	6
76	Ce-Doped WO Nanowires for Tuning N Activation toward Direct Nitrate Photosynthesis. *Journal of Physical Chemistry Letters*, **2021**, 12, 11295-11302	6.4	4
75	Enhanced syngas production from CO photoreduction over CoPd alloy modified NiAl-LDH under visible light. *Chemical Communications*, **2021**, 57, 11629-11632	5.8	1
74	Improved thermoelectric performance in n-type BiTe facilitated by defect engineering. *Rare Metals*, **2021**, 40, 2829-2837	5.5	5
73	One-Dimensional Frenkel Chain Defects in CsBiTe. *Journal of Physical Chemistry Letters*, **2021**, 12, 5319-5323	6.4	0
72	Constructing charge transfer channel between dopants and oxygen vacancies for enhanced visible-light-driven water oxidation. *Nano Research*, **2021**, 14, 3365-3371	10	4
71	Efficient interlayer charge release for high-performance layered thermoelectrics. *National Science Review*, **2021**, 8, nwaa085	10.8	9
70	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 5984-5993	16.4	72
69	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. *Angewandte Chemie*, **2021**, 133, 6049-6058	3.6	9
68	Vacancy cluster-induced local disordered structure for the enhancement of thermoelectric property in Cu2ZnSnSe4. *Journal of Materials Chemistry A*, **2021**, 9, 1006-1013	13	6
67	Intrinsically Low Lattice Thermal Conductivity in Natural Superlattice (Bi2)m(Bi2Te3)n Thermoelectric Materials. *Chemistry of Materials*, **2021**, 33, 1140-1148	9.6	9
66	Shedding Light on the Role of Chemical Bond in Catalysis of Nitrogen Fixation. *Advanced Materials*, **2021**, 33, e2007891	24	6
65	When thermoelectric materials come across with magnetism. *Rare Metals*, **2021**, 40, 752-766	5.5	5
64	Defect Compensation Weakening Induced Mobility Enhancement in Thermoelectric BiTeI by Iodine Deficiency. *Chemistry - an Asian Journal*, **2020**, 15, 4124-4129	4.5	1

63	Parasitic Ferromagnetism in Few-Layered Transition-Metal Chalcogenophosphate. *Journal of the American Chemical Society*, **2020**, 142, 10849-10855	16.4	9
62	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 17494-17498	16.4	8
61	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 17647-17651	3.6	0
60	Defects Engineering with Multiple Dimensions in Thermoelectric Materials. *Research*, **2020**, 2020, 9652749	7.8	33
59	Single Mo atom realized enhanced CO2 electro-reduction into formate on N-doped graphene. *Nano Energy*, **2019**, 61, 428-434	17.1	66
58	Intrinsic Negative Magnetoresistance in Van Der Waals FeNbTe Single Crystals. *Advanced Materials*, **2019**, 31, e1900246	24	10
57	Photocatalytic nitrogen fixation: the role of defects in photocatalysts. *Journal of Materials Chemistry A*, **2019**, 7, 19616-19633	13	108
56	Charge Compensation Modulation of the Thermoelectric Properties in AgSbTe via Mn Amphoteric Doping. *Inorganic Chemistry*, **2019**, 58, 9205-9212	5.1	7
55	Pothole-rich Ultrathin WO Nanosheets that Trigger N?N Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. *Angewandte Chemie - International Edition*, **2019**, 58, 731-735	16.4	125
54	Regulating the Charge and Spin Ordering of Two-Dimensional Ultrathin Solids for Electrocatalytic Water Splitting. *CheM*, **2018**, 4, 1263-1283	16.2	158
53	Single atom accelerates ammonia photosynthesis. *Science China Chemistry*, **2018**, 61, 1187-1196	7.9	76
52	Pothole-rich Ultrathin WO3 Nanosheets that Trigger N?N Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. *Angewandte Chemie*, **2018**, 131, 741	3.6	
51	Monolayer Behavior of NbS in Natural van der Waals Heterostructures. *Journal of Physical Chemistry Letters*, **2018**, 9, 6421-6425	6.4	3
50	Design of Highly Efficient Thermoelectric Materials: Tailoring Reciprocal-Space Properties by Real-Space Modification. *Advanced Materials*, **2018**, 30, e1802000	24	35
49	Strategies for discovery and optimization of thermoelectric materials: Role of real objects and local fields. *Frontiers of Physics*, **2018**, 13, 1	3.7	4
48	Evidence for Itinerant Carriers in an Anisotropic Narrow-Gap Semiconductor by Angle-Resolved Photoemission Spectroscopy. *Advanced Materials*, **2018**, 30, 1704733	24	5
47	The Expanding Energy Prospects of Metal Organic Frameworks. *Joule*, **2017**, 1, 25-28	27.8	10
46	Local Electric Field Facilitates High-Performance Li-Ion Batteries. *ACS Nano*, **2017**, 11, 8519-8526	16.7	112

45	A Thresholdless Tunable Raman Nanolaser using a ZnO-Graphene Superlattice. *Advanced Materials*, **2017**, 29, 1604351	24	15
44	Vacancy Engineering for Tuning Electron and Phonon Structures of Two-Dimensional Materials. *Advanced Energy Materials*, **2016**, 6, 1600436	21.8	151
43	Promoting Photogenerated Holes Utilization in Pore-Rich WO3 Ultrathin Nanosheets for Efficient Oxygen-Evolving Photoanode. *Advanced Energy Materials*, **2016**, 6, 1600437	21.8	120
42	Defect Chemistry for Thermoelectric Materials. *Journal of the American Chemical Society*, **2016**, 138, 14810-14819	16.4	199
41	Heterogeneous Spin States in Ultrathin Nanosheets Induce Subtle Lattice Distortion To Trigger Efficient Hydrogen Evolution. *Journal of the American Chemical Society*, **2016**, 138, 5087-92	16.4	277
40	Magnetic Ions Dope Wide Band-Gap Semiconductor Nanocrystals Realizing Decoupled Optimization of Thermoelectric Properties. *Springer Theses*, **2016**, 79-90	0.1	
39	Synthesis and Optimization of Chalcogenides Quantum Dots Thermoelectric Materials. *Springer Theses*, **2016**,	0.1	5
38	Two Metal Ion Exchange Realizing Efficient Thermoelectric Properties and p□□ Conduction Type Transition. *Springer Theses*, **2016**, 51-64	0.1	
37	Magnetic Ions Fully Substituted Wide Band-Gap Semiconductor Nanocrystals for Decoupled Optimization of Thermoelectric Properties. *Springer Theses*, **2016**, 91-102	0.1	
36	Dual Vacancies: An Effective Strategy Realizing Synergistic Optimization of Thermoelectric Property in BiCuSeO. *Journal of the American Chemical Society*, **2015**, 137, 6587-93	16.4	145
35	Electric-Field-Driven Dual Vacancies Evolution in Ultrathin Nanosheets Realizing Reversible Semiconductor to Half-Metal Transition. *Journal of the American Chemical Society*, **2015**, 137, 15043-8	16.4	38
34	Ultrathin two-dimensional inorganic materials: new opportunities for solid state nanochemistry. *Accounts of Chemical Research*, **2015**, 48, 3-12	24.3	222
33	Defect evolution during the phase transition of hexagonal nickel sulfide studied by positron annihilation spectroscopy. *Solid State Communications*, **2015**, 202, 64-68	1.6	3
32	Ultrathin Co3S4 nanosheets that synergistically engineer spin states and exposed polyhedra that promote water oxidation under neutral conditions. *Angewandte Chemie - International Edition*, **2015**, 54, 11231-5	16.4	219
31	Ultrathin Co3S4 Nanosheets that Synergistically Engineer Spin States and Exposed Polyhedra that Promote Water Oxidation under Neutral Conditions. *Angewandte Chemie*, **2015**, 127, 11383-11387	3.6	101
30	Vacancy associates-rich ultrathin nanosheets for high performance and flexible nonvolatile memory device. *Journal of the American Chemical Society*, **2015**, 137, 3102-8	16.4	117
29	Spatial location engineering of oxygen vacancies for optimized photocatalytic H2 evolution activity. *Small*, **2014**, 10, 2820-5, 2742	11	123
28	Decoupling interrelated parameters for designing high performance thermoelectric materials. *Accounts of Chemical Research*, **2014**, 47, 1287-95	24.3	86

27	Low overpotential in vacancy-rich ultrathin CoSe2 nanosheets for water oxidation. *Journal of the American Chemical Society*, **2014**, 136, 15670-5	16.4	783
26	Magnetic ions in wide band gap semiconductor nanocrystals for optimized thermoelectric properties. *Materials Horizons*, **2014**, 1, 81-86	14.4	70
25	The dominant {001} facet-dependent enhanced visible-light photoactivity of ultrathin BiOBr nanosheets. *Physical Chemistry Chemical Physics*, **2014**, 16, 20909-14	3.6	86
24	Magnetocaloric effects in a freestanding and flexible graphene-based superlattice synthesized with a spatially confined reaction. *Nature Communications*, **2014**, 5, 3960	17.4	62
23	Ultrathin nanosheets of half-metallic monoclinic vanadium dioxide with a thermally induced phase transition. *Angewandte Chemie - International Edition*, **2013**, 52, 7554-8	16.4	48
22	General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium-Ion Batteries. *Angewandte Chemie*, **2013**, 125, 8805-8809	3.6	48
21	Vacancy associates promoting solar-driven photocatalytic activity of ultrathin bismuth oxychloride nanosheets. *Journal of the American Chemical Society*, **2013**, 135, 10411-7	16.4	911
20	General formation of complex tubular nanostructures of metal oxides for the oxygen reduction reaction and lithium-ion batteries. *Angewandte Chemie - International Edition*, **2013**, 52, 8643-7	16.4	179
19	R□ktitelbild: General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium-Ion Batteries (Angew. Chem. 33/2013). *Angewandte Chemie*, **2013**, 125, 8916-8916	3.6	1
18	Atomically thick bismuth selenide freestanding single layers achieving enhanced thermoelectric energy harvesting. *Journal of the American Chemical Society*, **2012**, 134, 20294-7	16.4	244
17	High thermoelectric and reversible p-n-p conduction type switching integrated in dimetal chalcogenide. *Journal of the American Chemical Society*, **2012**, 134, 18460-6	16.4	144
16	Solid-solutioned homojunction nanoplates with disordered lattice: a promising approach toward "phonon glass electron crystal" thermoelectric materials. *Journal of the American Chemical Society*, **2012**, 134, 7971-7	16.4	65
15	Quantum tunneling of magnetization in ultrasmall half-metallic V3O4 quantum dots: displaying quantum superparamagnetic state. *Scientific Reports*, **2012**, 2, 755	4.9	24
14	Superionic phase transition in silver chalcogenide nanocrystals realizing optimized thermoelectric performance. *Journal of the American Chemical Society*, **2012**, 134, 4287-93	16.4	154
13	Preparation and Characterization of Silica-Coated Magnetic-Fluorescent Bifunctional Microspheres. *Nanoscale Research Letters*, **2009**, 4, 1078-1084	5	29
12	Surface-defect-states photoluminescence in CdS nanocrystals prepared by one-step aqueous synthesis method. *Applied Surface Science*, **2009**, 255, 7111-7114	6.7	57
11	Photocatalytic degradation of methylene blue over Co3O4/Bi2WO6 composite under visible light irradiation. *Catalysis Communications*, **2008**, 9, 1247-1253	3.2	209
10	Sonochemical synthesis of ZnO nanosheet. *Journal of Alloys and Compounds*, **2008**, 459, L18-L22	5.7	56

9	Photoinduced hydroxyl radical and photocatalytic activity of samarium-doped TiO(2) nanocrystalline. *Journal of Hazardous Materials*, **2008**, 150, 62-7	12.8	299
8	Strong enhancement of band-edge photoluminescence in CdS nanocrystals prepared by one-step aqueous synthesis method. *Journal of Luminescence*, **2008**, 128, 1942-1947	3.8	36
7	Synthesis and photoluminescence of water-soluble Mn2+-doped ZnS quantum dots. *Applied Surface Science*, **2008**, 254, 6432-6435	6.7	63
6	Solar photocatalytic degradation of methylene blue in carbon-doped TiO2 nanoparticles suspension. *Solar Energy*, **2008**, 82, 706-713	6.8	170
5	Synthesis and photoluminescence of water-soluble Mn:ZnS/ZnS core/shell quantum dots using nucleation-doping strategy. *Optical Materials*, **2008**, 31, 455-460	3.3	31
4	Photocatalytic decolorization of methylene blue over Zn1−xCoxO under visible light irradiation. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 142, 121-125	3.1	100
3	Effects of samarium dopant on photocatalytic activity of TiO2 nanocrystallite for methylene blue degradation. *Journal of Materials Science*, **2007**, 42, 9194-9199	4.3	27
2	Coexistence of large positive and negative magnetoresistance in Cr2Si2Te6 ferromagnetic semiconductor. *Science China Materials*,1	7.1	2
1	Phonon Symphony of Stacked of Multilayer and Weakly Bond Lowering Lattice Thermal Conductivity. *Advanced Materials*,2202677	24	