Chong Xiao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5331692/publications.pdf

Version: 2024-02-01

80	8,693	61984	58581
papers	citations	43 h-index	82 g-index

88	88	88	11251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vacancy Associates Promoting Solar-Driven Photocatalytic Activity of Ultrathin Bismuth Oxychloride Nanosheets. Journal of the American Chemical Society, 2013, 135, 10411-10417.	13.7	1,091
2	Low Overpotential in Vacancy-Rich Ultrathin CoSe₂ Nanosheets for Water Oxidation. Journal of the American Chemical Society, 2014, 136, 15670-15675.	13.7	970
3	Heterogeneous Spin States in Ultrathin Nanosheets Induce Subtle Lattice Distortion To Trigger Efficient Hydrogen Evolution. Journal of the American Chemical Society, 2016, 138, 5087-5092.	13.7	351
4	Photoinduced hydroxyl radical and photocatalytic activity of samarium-doped TiO2 nanocrystalline. Journal of Hazardous Materials, 2008, 150, 62-67.	12.4	322
5	Ultrathin Co₃S₄ Nanosheets that Synergistically Engineer Spin States and Exposed Polyhedra that Promote Water Oxidation under Neutral Conditions. Angewandte Chemie - International Edition, 2015, 54, 11231-11235.	13.8	283
6	Atomically Thick Bismuth Selenide Freestanding Single Layers Achieving Enhanced Thermoelectric Energy Harvesting. Journal of the American Chemical Society, 2012, 134, 20294-20297.	13.7	279
7	Ultrathin Two-Dimensional Inorganic Materials: New Opportunities for Solid State Nanochemistry. Accounts of Chemical Research, 2015, 48, 3-12.	15.6	255
8	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. Angewandte Chemie - International Edition, 2021, 60, 5984-5993.	13.8	234
9	Photocatalytic degradation of methylene blue over Co3O4/Bi2WO6 composite under visible light irradiation. Catalysis Communications, 2008, 9, 1247-1253.	3.3	233
10	Regulating the Charge and Spin Ordering of Two-Dimensional Ultrathin Solids for Electrocatalytic Water Splitting. CheM, 2018, 4, 1263-1283.	11.7	219
11	Potholeâ€rich Ultrathin WO₃ Nanosheets that Trigger Nâ‰¡N Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. Angewandte Chemie - International Edition, 2019, 58, 731-735.	13.8	202
12	Vacancy Engineering for Tuning Electron and Phonon Structures of Twoâ€Dimensional Materials. Advanced Energy Materials, 2016, 6, 1600436.	19.5	198
13	Photocatalytic nitrogen fixation: the role of defects in photocatalysts. Journal of Materials Chemistry A, 2019, 7, 19616-19633.	10.3	198
14	Solar photocatalytic degradation of methylene blue in carbon-doped TiO2 nanoparticles suspension. Solar Energy, 2008, 82, 706-713.	6.1	196
15	General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithiumâ€ion Batteries. Angewandte Chemie - International Edition, 2013, 52, 8643-8647.	13.8	194
16	Superionic Phase Transition in Silver Chalcogenide Nanocrystals Realizing Optimized Thermoelectric Performance. Journal of the American Chemical Society, 2012, 134, 4287-4293.	13.7	188
17	Dual Vacancies: An Effective Strategy Realizing Synergistic Optimization of Thermoelectric Property in BiCuSeO. Journal of the American Chemical Society, 2015, 137, 6587-6593.	13.7	183
18	High Thermoelectric and Reversible p-n-p Conduction Type Switching Integrated in Dimetal Chalcogenide. Journal of the American Chemical Society, 2012, 134, 18460-18466.	13.7	164

#	Article	IF	Citations
19	Defect Chemistry for Thermoelectric Materials. Journal of the American Chemical Society, 2016, 138, 14810-14819.	13.7	161
20	Local Electric Field Facilitates High-Performance Li-Ion Batteries. ACS Nano, 2017, 11, 8519-8526.	14.6	155
21	Promoting Photogenerated Holes Utilization in Poreâ€Rich WO₃ Ultrathin Nanosheets for Efficient Oxygenâ€Evolving Photoanode. Advanced Energy Materials, 2016, 6, 1600437.	19.5	150
22	Vacancy Associates-Rich Ultrathin Nanosheets for High Performance and Flexible Nonvolatile Memory Device. Journal of the American Chemical Society, 2015, 137, 3102-3108.	13.7	141
23	Spatial Location Engineering of Oxygen Vacancies for Optimized Photocatalytic H₂ Evolution Activity. Small, 2014, 10, 2820-2825.	10.0	139
24	Decoupling Interrelated Parameters for Designing High Performance Thermoelectric Materials. Accounts of Chemical Research, 2014, 47, 1287-1295.	15.6	122
25	Photocatalytic decolorization of methylene blue over Zn1â^'xCoxO under visible light irradiation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 142, 121-125.	3.5	107
26	Single atom accelerates ammonia photosynthesis. Science China Chemistry, 2018, 61, 1187-1196.	8.2	107
27	Single Mo atom realized enhanced CO2 electro-reduction into formate on N-doped graphene. Nano Energy, 2019, 61, 428-434.	16.0	106
28	The dominant {001} facet-dependent enhanced visible-light photoactivity of ultrathin BiOBr nanosheets. Physical Chemistry Chemical Physics, 2014, 16, 20909-20914.	2.8	101
29	A record thermoelectric efficiency in tellurium-free modules for low-grade waste heat recovery. Nature Communications, 2022, 13, 237.	12.8	99
30	Magnetic ions in wide band gap semiconductor nanocrystals for optimized thermoelectric properties. Materials Horizons, 2014, 1, 81-86.	12.2	87
31	Magnetocaloric effects in a freestanding and flexible graphene-based superlattice synthesized with a spatially confined reaction. Nature Communications, 2014, 5, 3960.	12.8	79
32	Dual Nanoislands on Ni/C Hybrid Nanosheet Activate Superior Hydrazine Oxidationâ€Assisted Highâ€Efficiency H₂ Production. Angewandte Chemie - International Edition, 2022, 61, .	13.8	74
33	Solid-Solutioned Homojunction Nanoplates with Disordered Lattice: A Promising Approach toward â€œPhonon Glass Electron Crystalâ€•Thermoelectric Materials. Journal of the American Chemical Society, 2012, 134, 7971-7977.	13.7	71
34	Designing a Redox Heterojunction for Photocatalytic â€œOverall Nitrogen Fixationâ€•under Mild Conditions. Advanced Materials, 2022, 34, e2200563.	21.0	71
35	Synthesis and photoluminescence of water-soluble Mn2+-doped ZnS quantum dots. Applied Surface Science, 2008, 254, 6432-6435.	6.1	70
36	Surface-defect-states photoluminescence in CdS nanocrystals prepared by one-step aqueous synthesis method. Applied Surface Science, 2009, 255, 7111-7114.	6.1	65

#	Article	IF	Citations
37	Sonochemical synthesis of ZnO nanosheet. Journal of Alloys and Compounds, 2008, 459, L18-L22.	5.5	62
38	Defects Engineering with Multiple Dimensions in Thermoelectric Materials. Research, 2020, 2020, 9652749.	5.7	56
39	Ultrathin Nanosheets of Halfâ€Metallic Monoclinic Vanadium Dioxide with a Thermally Induced Phase Transition. Angewandte Chemie - International Edition, 2013, 52, 7554-7558.	13.8	52
40	Design of Highly Efficient Thermoelectric Materials: Tailoring Reciprocalâ€Space Properties by Realâ€Space Modification. Advanced Materials, 2018, 30, e1802000.	21.0	51
41	Electric-Field-Driven Dual Vacancies Evolution in Ultrathin Nanosheets Realizing Reversible Semiconductor to Half-Metal Transition. Journal of the American Chemical Society, 2015, 137, 15043-15048.	13.7	43
42	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. Angewandte Chemie, 2021, 133, 6049-6058.	2.0	42
43	Strong enhancement of band-edge photoluminescence in CdS nanocrystals prepared by one-step aqueous synthesis method. Journal of Luminescence, 2008, 128, 1942-1947.	3.1	37
44	Synthesis and photoluminescence of water-soluble Mn:ZnS/ZnS core/shell quantum dots using nucleation-doping strategy. Optical Materials, 2008, 31, 455-460.	3.6	33
45	Shedding Light on the Role of Chemical Bond in Catalysis of Nitrogen Fixation. Advanced Materials, 2021, 33, e2007891.	21.0	32
46	Preparation and Characterization of Silica-Coated Magneticâ€“Fluorescent Bifunctional Microspheres. Nanoscale Research Letters, 2009, 4, 1078-1084.	5.7	29
47	Effects of samarium dopant on photocatalytic activity of TiO2 nanocrystallite for methylene blue degradation. Journal of Materials Science, 2007, 42, 9194-9199.	3.7	28
48	Quantum Tunneling of Magnetization in Ultrasmall Half-Metallic V3O4 Quantum Dots: Displaying Quantum Superparamagnetic State. Scientific Reports, 2012, 2, 755.	3.3	25
49	Intrinsically Low Lattice Thermal Conductivity in Natural Superlattice (Bi₂)_m(Bi₂Te₃)_n Thermoelectric Materials. Chemistry of Materials, 2021, 33, 1140-1148.	6.7	25
50	Layered thermoelectric materials: Structure, bonding, and performance mechanisms. Applied Physics Reviews, 2022, 9, .	11.3	25
51	Improved thermoelectric performance in n-type BiTe facilitated by defect engineering. Rare Metals, 2021, 40, 2829-2837.	7.1	24
52	Constructing charge transfer channel between dopants and oxygen vacancies for enhanced visible-light-driven water oxidation. Nano Research, 2021, 14, 3365-3371.	10.4	24
53	Potholeâ€rich Ultrathin WO₃ Nanosheets that Trigger Nâ‰¡N Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. Angewandte Chemie, 2019, 131, 741-745.	2.0	21
54	When thermoelectric materials come across with magnetism. Rare Metals, 2021, 40, 752-766.	7.1	21

#	Article	IF	Citations
55	Natural Soft/Rigid Superlattices as Anodes for Highâ€Performance Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 17494-17498.	13.8	20
56	Ce-Doped W₁₈O₄₉ Nanowires for Tuning N₂ Activation toward Direct Nitrate Photosynthesis. Journal of Physical Chemistry Letters, 2021, 12, 11295-11302.	4.6	20
57	A Thresholdless Tunable Raman Nanolaser using a ZnOâ€“Graphene Superlattice. Advanced Materials, 2017, 29, 1604351.	21.0	19
58	Intrinsic Negative Magnetoresistance in Van Der Waals FeNbTe₂ Single Crystals. Advanced Materials, 2019, 31, e1900246.	21.0	16
59	Parasitic Ferromagnetism in Few-Layered Transition-Metal Chalcogenophosphate. Journal of the American Chemical Society, 2020, 142, 10849-10855.	13.7	16
60	Efficient interlayer charge release for high-performance layered thermoelectrics. National Science Review, 2021, 8, nwaa085.	9.5	15
61	Vacancy cluster-induced local disordered structure for the enhancement of thermoelectric property in Cu₂ZnSnSe₄. Journal of Materials Chemistry A, 2021, 9, 1006-1013.	10.3	15
62	The Expanding Energy Prospects of Metal Organic Frameworks. Joule, 2017, 1, 25-28.	24.0	13
63	Charge Compensation Modulation of the Thermoelectric Properties in AgSbTe₂ via Mn Amphoteric Doping. Inorganic Chemistry, 2019, 58, 9205-9212.	4.0	12
64	Bulk Superlattice Analogues for Energy Conversion. Journal of the American Chemical Society, 2022, 144, 3298-3313.	13.7	11
65	Coexistence of large positive and negative magnetoresistance in Cr2Si2Te6 ferromagnetic semiconductor. Science China Materials, 2022, 65, 780-787.	6.3	9
66	Monolayer Behavior of NbS₂ in Natural van der Waals Heterostructures. Journal of Physical Chemistry Letters, 2018, 9, 6421-6425.	4.6	8
67	Evidence for Itinerant Carriers in an Anisotropic Narrowâ€Gap Semiconductor by Angleâ€Resolved Photoemission Spectroscopy. Advanced Materials, 2018, 30, 1704733.	21.0	8
68	Strategies for discovery and optimization of thermoelectric materials: Role of real objects and local fields. Frontiers of Physics, 2018, 13, 1.	5.0	6
69	Enhanced syngas production from CO₂ photoreduction over CoPd alloy modified NiAl-LDH under visible light. Chemical Communications, 2021, 57, 11629-11632.	4.1	6
70	Dual Nanoislands on Ni/C Hybrid Nanosheet Activate Superior Hydrazine Oxidationâ€Assisted Highâ€Efficiency H₂ Production. Angewandte Chemie, 2022, 134, .	2.0	6
71	Phonon Symphony of Stacked Multilayers and Weak Bonds Lowers Lattice Thermal Conductivity. Advanced Materials, 2022, 34, .	21.0	6
72	Defect evolution during the phase transition of hexagonal nickel sulfide studied by positron annihilation spectroscopy. Solid State Communications, 2015, 202, 64-68.	1.9	3

#	Article	IF	Citations
73	Defect Compensation Weakening Induced Mobility Enhancement in Thermoelectric BiTeI by Iodine Deficiency. Chemistry - an Asian Journal, 2020, 15, 4124-4129.	3.3	3
74	Tuning the electric transport behavior of AgCrSe2 by intrinsic defects. Science China Chemistry, 2021, 64, 1970-1975.	8.2	3
75	RÃ¼cktitelbild: 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.	2.0	2
76	Natural Soft/Rigid Superlattices as Anodes for Highâ€Performance Lithiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 17647-17651.	2.0	2
77	One-Dimensional Frenkel Chain Defects in CsBi4Te6. Journal of Physical Chemistry Letters, 2021, 12, 5319-5323.	4.6	1
78	Two Metal Ion Exchange Realizing Efficient Thermoelectric Properties and pâ€“nâ€“p Conduction Type Transition. Springer Theses, 2016, , 51-64.	0.1	0
79	Magnetic Ions Fully Substituted Wide Band-Gap Semiconductor Nanocrystals for Decoupled Optimization of Thermoelectric Properties. Springer Theses, 2016, , 91-102.	0.1	0
80	Magnetic Ions Dope Wide Band-Gap Semiconductor Nanocrystals Realizing Decoupled Optimization of Thermoelectric Properties. Springer Theses, 2016, , 79-90.	0.1	0