

Yi Du

List of Publications by Year in descending order

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203
papers

11,770
citations

23544

58
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32815

100
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207
all docs

207
docs citations

207
times ranked

14718
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Ammonia Electrosynthesis from Nitrate on Strained Ruthenium Nanoclusters. <i>Journal of the American Chemical Society</i> , 2020, 142, 7036-7046.	6.6	542
2	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs _{1-x} FAPbI ₃ quantum dot solar cells with reduced phase segregation. <i>Nature Energy</i> , 2020, 5, 79-88.	19.8	412
3	Two-dimensional metal-organic frameworks with high oxidation states for efficient electrocatalytic urea oxidation. <i>Chemical Communications</i> , 2017, 53, 10906-10909.	2.2	328
4	Bismuth Oxybromide with Reasonable Photocatalytic Reduction Activity under Visible Light. <i>ACS Catalysis</i> , 2014, 4, 954-961.	5.5	300
5	Photocatalytic properties of BiOX (X = Cl, Br, and I). <i>Rare Metals</i> , 2008, 27, 243-250.	3.6	297
6	High-strength scalable MXene films through bridging-induced densification. <i>Science</i> , 2021, 374, 96-99.	6.0	297
7	Three-dimensional controlled growth of monodisperse sub-50 nm heterogeneous nanocrystals. <i>Nature Communications</i> , 2016, 7, 10254.	5.8	267
8	Recent Development of Zeolitic Imidazolate Frameworks (ZIFs) Derived Porous Carbon Based Materials as Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1801257.	10.2	242
9	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8824-8828.	7.2	242
10	Room Temperature Giant and Linear Magnetoresistance in Topological Insulator $\frac{2.9}{2.37} \frac{\text{Bi}_2\text{Te}_3}{\text{Bi}_2\text{Se}_3}$ Physical Review Letters, 2012, 108, 266806.	2.9	237
11	Band-gap engineering of BiOCl with oxygen vacancies for efficient photooxidation properties under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2193-2199.	5.2	232
12	Capturing the active sites of multimetallic (oxy)hydroxides for the oxygen evolution reaction. <i>Energy and Environmental Science</i> , 2020, 13, 4225-4237.	15.6	186
13	Silicene: A Promising Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1606716.	11.1	179
14	Tuning the Band Gap in Silicene by Oxidation. <i>ACS Nano</i> , 2014, 8, 10019-10025.	7.3	175
15	Superhydrophobic Shape Memory Polymer Arrays with Switchable Isotropic/Anisotropic Wetting. <i>Advanced Functional Materials</i> , 2018, 28, 1705002.	7.8	166
16	Improving the photo-oxidative capability of BiOBr via crystal facet engineering. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8117-8124.	5.2	163
17	High-performance room-temperature sodium-sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. <i>Energy and Environmental Science</i> , 2020, 13, 562-570.	15.6	163
18	One-pot synthesis of porous 1T-phase MoS ₂ integrated with single-atom Cu doping for enhancing electrocatalytic hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 87-93.	10.8	160

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19	Nanodroplets for Stretchable Superconducting Circuits. <i>Advanced Functional Materials</i> , 2016, 26, 8111-8118.	7.8	158
20	Fast Responsive and Controllable Liquid Transport on a Magnetic Fluid/Nanoarray Composite Interface. <i>ACS Nano</i> , 2016, 10, 6220-6226.	7.3	144
21	Comprehensive New Insights and Perspectives into Ti-Based Anodes for Next-Generation Alkaline Metal (Na ⁺ , K ⁺) Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801888.	10.2	142
22	Rayleigh-Instability-Induced Bismuth Nanorod@Nitrogen-Doped Carbon Nanotubes as A Long Cycling and High Rate Anode for Sodium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 1998-2004.	4.5	142
23	Activating Titania for Efficient Electrocatalysis by Vacancy Engineering. <i>ACS Catalysis</i> , 2018, 8, 4288-4293.	5.5	141
24	3D hierarchical porous graphene aerogel with tunable meso-pores on graphene nanosheets for high-performance energy storage. <i>Scientific Reports</i> , 2015, 5, 14229.	1.6	139
25	Thickness-independent scalable high-performance Li-S batteries with high areal sulfur loading via electron-enriched carbon framework. <i>Nature Communications</i> , 2021, 12, 4519.	5.8	139
26	Quasi-freestanding epitaxial silicene on Ag(111) by oxygen intercalation. <i>Science Advances</i> , 2016, 2, e1600067.	4.7	138
27	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. <i>Science Advances</i> , 2018, 4, eaau4511.	4.7	131
28	A 2D metal-organic framework/Ni(OH) ₂ heterostructure for an enhanced oxygen evolution reaction. <i>Nanoscale</i> , 2019, 11, 3599-3605.	2.8	131
29	Modulation of Photocatalytic Properties by Strain in 2D BiOBr Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27592-27596.	4.0	130
30	Aqueous Electrolytes with Hydrophobic Organic Cosolvents for Stabilizing Zinc Metal Anodes. <i>ACS Nano</i> , 2022, 16, 9667-9678.	7.3	126
31	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019, 4, 1231-1240.	8.8	111
32	A Liquid-Metal-Based Magnetoactive Slurry for Stimuli-Responsive Mechanically Adaptive Electrodes. <i>Advanced Materials</i> , 2018, 30, e1802595.	11.1	106
33	Boron Nitride Nanotubes for Ammonia Synthesis: Activation by Filling Transition Metals. <i>Journal of the American Chemical Society</i> , 2020, 142, 308-317.	6.6	105
34	A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. <i>Nano Letters</i> , 2017, 17, 7831-7838.	4.5	101
35	Boosting Visible-Light-Driven Photo-oxidation of BiOCl by Promoted Charge Separation via Vacancy Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3010-3017.	3.2	101
36	Recent Progress on Germanene and Functionalized Germanene: Preparation, Characterizations, Applications, and Challenges. <i>Small</i> , 2019, 15, e1805147.	5.2	100

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37	Enhancement of ferromagnetic and dielectric properties in lanthanum doped BiFeO ₃ by hydrothermal synthesis. <i>Journal of Alloys and Compounds</i> , 2010, 490, 637-641.	2.8	95
38	Ultra-Tough Inverse Artificial Nacre Based on Epoxy-Graphene by Freeze-Casting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7636-7640.	7.2	93
39	Band Gap Modulated by Electronic Superlattice in Blue Phosphorene. <i>ACS Nano</i> , 2018, 12, 5059-5065.	7.3	92
40	A dye-sensitized visible light photocatalyst-Bi ₂ O ₃ /Cl ₁₀ . <i>Scientific Reports</i> , 2014, 4, 7384.	1.6	91
41	Defect Sites-Rich Porous Carbon with Pseudocapacitive Behaviors as an Ultrafast and Long-Term Cycling Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9353-9361.	4.0	91
42	Two dimensional bismuth-based layered materials for energy-related applications. <i>Energy Storage Materials</i> , 2019, 19, 446-463.	9.5	89
43	Recent progress on liquid metals and their applications. <i>Advances in Physics: X</i> , 2018, 3, 1446359.	1.5	85
44	Boosting Sodium Storage of Double-Shell Sodium Titanate Microspheres Constructed from 2D Ultrathin Nanosheets via Sulfur Doping. <i>Advanced Materials</i> , 2018, 30, e1804157.	11.1	79
45	Strong bioinspired HPA-rGO nanocomposite films via interfacial interactions for flexible supercapacitors. <i>Nano Energy</i> , 2019, 58, 517-527.	8.2	79
46	Liquid metals and their hybrids as stimulus-responsive smart materials. <i>Materials Today</i> , 2020, 34, 92-114.	8.3	78
47	Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1808084.	7.8	76
48	Cooperative Electron-Phonon Coupling and Buckled Structure in Germanene on Au(111). <i>ACS Nano</i> , 2017, 11, 3553-3559.	7.3	75
49	Honeycomb silicon: a review of silicene. <i>Science Bulletin</i> , 2015, 60, 1551-1562.	4.3	74
50	Promoted Photocharge Separation in 2D Lateral Epitaxial Heterostructure for Visible-Light-Driven CO ₂ Photoreduction. <i>Advanced Materials</i> , 2020, 32, e2004311.	11.1	74
51	Effects of Oxygen Adsorption on the Surface State of Epitaxial Silicene on Ag(111). <i>Scientific Reports</i> , 2014, 4, 7543.	1.6	70
52	Investigation of electron-phonon coupling in epitaxial silicene by <i>in situ</i> Raman spectroscopy. <i>Physical Review B</i> , 2015, 91, .	1.1	67
53	Heterovalent-Doping-Enabled Efficient Dopant Luminescence and Controllable Electronic Impurity Via a New Strategy of Preparing II ^{VI} Nanocrystals. <i>Advanced Materials</i> , 2015, 27, 2753-2761.	11.1	67
54	A non-enzymatic photoelectrochemical glucose sensor based on BiVO ₄ electrode under visible light. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 34-41.	4.0	67

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55	Metal-ion bridged high conductive RGO-M-MoS ₂ (M = Fe ³⁺ , Co ²⁺ , Ni ²⁺ , Cu ²⁺ and Zn ²⁺) composite electrocatalysts for photo-assisted hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 129-139.	10.8	63
56	Finely dispersed Au nanoparticles on graphitic carbon nitride as highly active photocatalyst for hydrogen peroxide production. <i>Catalysis Communications</i> , 2019, 123, 69-72.	1.6	63
57	Near-Infrared-Driven Photocatalysts: Design, Construction, and Applications. <i>Small</i> , 2021, 17, e1904107.	5.2	63
58	Photocatalytic Reduction on Bismuth-Based p-Block Semiconductors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15936-15953.	3.2	62
59	Visible-light-responsive K-doped g-C ₃ N ₄ /BiOBr hybrid photocatalyst with highly efficient degradation of Rhodamine B and tetracycline. <i>Materials Science in Semiconductor Processing</i> , 2020, 112, 105023.	1.9	61
60	Facile preparation of BiOBr/cellulose composites by in situ synthesis and its enhanced photocatalytic activity under visible-light. <i>Carbohydrate Polymers</i> , 2018, 195, 393-400.	5.1	59
61	Dirac Signature in Germanene on Semiconducting Substrate. <i>Advanced Science</i> , 2018, 5, 1800207.	5.6	59
62	Hydrogen Terminated Germanene for a Robust Self-Powered Flexible Photoelectrochemical Photodetector. <i>Small</i> , 2020, 16, e2000283.	5.2	58
63	Construction of a Bi ₂ MoO ₆ :Bi ₂ Mo ₃ O ₁₂ heterojunction for efficient photocatalytic oxygen evolution. <i>Chemical Engineering Journal</i> , 2018, 353, 636-644.	6.6	56
64	Binary Pd/amorphous-SrRuO ₃ hybrid film for high stability and fast activity recovery ethanol oxidation electrocatalysis. <i>Nano Energy</i> , 2020, 67, 104247.	8.2	55
65	Structure, magnetic, and thermal properties of Nd _{1-x} LaxCrO ₃ (x=1.0). <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	53
66	Ultratough nacre-inspired epoxy-graphene composites with shape memory properties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2787-2794.	5.2	53
67	Interface Strain-Induced Multiferroicity in a SmFeO ₃ Film. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7356-7362.	4.0	52
68	Promoting photoreduction properties via synergetic utilization between plasmonic effect and highly active facet of BiOCl. <i>Nano Energy</i> , 2019, 57, 398-404.	8.2	52
69	The origin of the enhanced photocatalytic activity of carbon nitride nanotubes: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4827-4834.	5.2	50
70	Ordered platinum-bismuth intermetallic clusters with Pt-skin for a highly efficient electrochemical ethanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5214-5220.	5.2	48
71	Bio-Inspired Multifunctional Metallic Foams Through the Fusion of Different Biological Solutions. <i>Advanced Functional Materials</i> , 2014, 24, 2721-2726.	7.8	46
72	A ferroelectric photocatalyst Ag ₁₀ Si ₄ O ₁₃ with visible-light photooxidation properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10992-10999.	5.2	46

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73	Laser-Generated Supranano Liquid Metal as Efficient Electron Mediator in Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2001571.	11.1	46
74	Improving the Photo-Oxidative Performance of Bi ₂ MoO ₆ by Harnessing the Synergy between Spatial Charge Separation and Rational Co-Catalyst Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9342-9352.	4.0	44
75	Fabrication of a Single-Atom Platinum Catalyst for the Hydrogen Evolution Reaction: A New Protocol by Utilization of H ₂ MoO ₃ with Plasmon Resonance. <i>ChemCatChem</i> , 2018, 10, 946-950.	1.8	43
76	Super Large Sn ²⁺ /Se Single Crystals with Excellent Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8051-8059.	4.0	43
77	Epitaxial growth of metal-semiconductor van der Waals heterostructures NbS ₂ /MoS ₂ with enhanced performance of transistors and photodetectors. <i>Science China Materials</i> , 2020, 63, 1548-1559.	3.5	40
78	Au-nanoparticle-supported ZnO as highly efficient photocatalyst for H ₂ O ₂ production. <i>Catalysis Communications</i> , 2020, 134, 105860.	1.6	39
79	Fe, Cu co-doped BiOBr with improved photocatalytic ability of pollutants degradation. <i>Journal of Alloys and Compounds</i> , 2021, 881, 160391.	2.8	39
80	Gallium-based liquid metals for lithium-ion batteries. , 2022, 1, 354-372.		39
81	Unabridged phase diagram for single-phased Fe ₅ Te _{1-x} thin films. <i>Scientific Reports</i> , 2014, 4, 7273.	1.6	38
82	Local probing of magnetoelectric properties of PVDF/Fe ₃ O ₄ electrospun nanofibers by piezoresponse force microscopy. <i>Nanotechnology</i> , 2017, 28, 065707.	1.3	38
83	Germanium Nanosheets with Dirac Characteristics as a Saturable Absorber for Ultrafast Pulse Generation. <i>Advanced Materials</i> , 2021, 33, e2101042.	11.1	38
84	Delocalized Surface State in Epitaxial Si(111) Film with Spontaneous $\sqrt{3}\times\sqrt{3}$ Superstructure. <i>Scientific Reports</i> , 2015, 5, 13590.	1.6	37
85	Observation of van Hove Singularities in Twisted Silicene Multilayers. <i>ACS Central Science</i> , 2016, 2, 517-521.	5.3	37
86	s-p orbital hybridization: a strategy for developing efficient photocatalysts with high carrier mobility. <i>Science Bulletin</i> , 2018, 63, 465-468.	4.3	37
87	Progress and perspectives of bismuth oxyhalides in catalytic applications. <i>Materials Today Physics</i> , 2021, 16, 100294.	2.9	37
88	Depth-profiling of Yb ³⁺ sensitizer ions in NaYF ₄ upconversion nanoparticles. <i>Nanoscale</i> , 2017, 9, 7719-7726.	2.8	36
89	Amorphous MoO ₃ nanosheets prepared by the reduction of crystalline MoO ₃ by Mo metal for LSPR and photothermal conversion. <i>Chemical Communications</i> , 2019, 55, 12527-12530.	2.2	36
90	Selective Ferroelectric BiOI/Bi ₄ Ti ₃ O ₁₂ Heterostructures for Visible Light-Driven Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 517-525.	1.5	36

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91	Fabrication of novel ternary direct Z-scheme $\text{g-C}_3\text{N}_4/\text{g-C}_3\text{N}_4/\text{BiOBr}$ with enhanced photocatalytic performance. <i>Applied Surface Science</i> , 2020, 506, 145031.	3.1	36
92	Point defects in epitaxial silicene on Ag(111) surfaces. <i>2D Materials</i> , 2016, 3, 025034.	2.0	35
93	General Synthetic Strategy for Pomegranate-like Transition-Metal Phosphides@N-Doped Carbon Nanostructures with High Lithium Storage Capacity. , 2019, 1, 265-271.		35
94	Synthesis of Multilayer Silicene on Si(111)-Ag. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27182-27190.	1.5	34
95	Advanced photocatalytic performance of novel BiOBr/BiOI/cellulose composites for the removal of organic pollutant. <i>Cellulose</i> , 2019, 26, 5543-5557.	2.4	33
96	Highly efficient and selective electrocatalytic hydrogen peroxide production on Co-O-C active centers on graphene oxide. <i>Communications Chemistry</i> , 2022, 5, .	2.0	33
97	Manipulation of domain wall mobility by oxygen vacancy ordering in multiferroic YMnO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20010.	1.3	32
98	Enhanced Photocatalytic Activity of Bi ₂₄ O ₃₁ Br ₁₀ : Constructing Heterojunction with BiOI. <i>Journal of Materials Science and Technology</i> , 2017, 33, 281-284.	5.6	31
99	Construction of 2D lateral pseudoheterostructures by strain engineering. <i>2D Materials</i> , 2017, 4, 025102.	2.0	31
100	Highly nonlinear BiOBr nanoflakes for hybrid integrated photonics. <i>APL Photonics</i> , 2019, 4, .	3.0	31
101	Boosting NIR-driven photocatalytic water splitting by constructing 2D/3D epitaxial heterostructures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13629-13634.	5.2	30
102	Indirect-Direct Band Transformation of Few-Layer BiOCl under Biaxial Strain. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8589-8594.	1.5	29
103	Efficient Photocatalytic Hydrogen Peroxide Production over TiO ₂ Passivated by SnO ₂ . <i>Catalysts</i> , 2019, 9, 623.	1.6	29
104	Enhancement of magnetization and dielectric properties of chromium-doped BiFeO ₃ with tunable morphologies. <i>Thin Solid Films</i> , 2010, 518, e5-e8.	0.8	28
105	Fabrication, magnetic, and ferroelectric properties of multiferroic BiFeO ₃ hollow nanoparticles. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	28
106	Growth Mechanism and Magnetic Properties of Highly Crystalline NiO Nanocubes and Nanorods Fabricated by Evaporation. <i>Crystal Growth and Design</i> , 2012, 12, 2842-2849.	1.4	28
107	Efficient visible-light photocatalysts by constructing dispersive energy band with anisotropic p and s-p hybridization states. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 6, 93-100.	3.2	28
108	Role of Charge Density Wave in Monatomic Assembly in Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019, 29, 1900367.	7.8	28

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109	General Programmable Growth of Hybrid Core-Shell Nanostructures with Liquid Metal Nanodroplets. <i>Advanced Materials</i> , 2021, 33, e2008024.	11.1	28
110	Reversible Oxidation of Blue Phosphorus Monolayer on Au(111). <i>Nano Letters</i> , 2019, 19, 5340-5346.	4.5	27
111	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. <i>Materials Horizons</i> , 2020, 7, 827-834.	6.4	27
112	Gallium-Indium-Tin Liquid Metal Nanodroplet-Based Anisotropic Conductive Adhesives for Flexible Integrated Electronics. <i>ACS Applied Nano Materials</i> , 2021, 4, 550-557.	2.4	27
113	Optimization of photocarrier dynamics and activity in phosphorene with intrinsic defects for nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20570-20580.	5.2	26
114	Application of Scanning Tunneling Microscopy in Electrocatalysis and Electrochemistry. <i>Electrochemical Energy Reviews</i> , 2021, 4, 249-268.	13.1	26
115	Atomic Structural Evolution of Single-Layer Pt Clusters as Efficient Electrocatalysts. <i>Small</i> , 2021, 17, e2100732.	5.2	26
116	Synthesis of black pigments containing chromium from leather sludge. <i>Ceramics International</i> , 2015, 41, 9455-9460.	2.3	25
117	Enhancement of charge separation in ferroelectric heterogeneous photocatalyst Bi ₄ (SiO ₄) ₃ /Bi ₂ SiO ₅ nanostructures. <i>Dalton Transactions</i> , 2017, 46, 15582-15588.	1.6	25
118	Defect state of indium-doped bismuth molybdate nanosheets for enhanced photoreduction of chromium(Cr^{VI}) under visible light illumination. <i>Dalton Transactions</i> , 2018, 47, 8110-8120.	1.6	25
119	Realization of Strained Stanene by Interface Engineering. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1558-1565.	2.1	25
120	Fabrication and characterization of textured Bi ₂ Te ₃ thermoelectric thin films prepared on glass substrates at room temperature using pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2013, 362, 247-251.	0.7	24
121	The origin of enhanced photocatalytic activities of hydrogenated TiO ₂ nanoparticles. <i>Dalton Transactions</i> , 2017, 46, 10694-10699.	1.6	24
122	Structural, dielectric, antiferromagnetic, and thermal properties of the frustrated hexagonal Ho _{1-x} Bi _x Fe ₂ O ₇ . <i>Journal of Applied Physics</i> , 2017, 121, 114101.	1.1	23
123	Controllable synthesis of magnetic Fe ₃ O ₄ particles with different morphology by one-step hydrothermal route. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 121-125.	1.0	23
124	The Dependence of Bi ₂ MoO ₆ Photocatalytic Water Oxidation Capability on Crystal Facet Engineering. <i>ChemPhotoChem</i> , 2019, 3, 1246-1253.	1.5	23
125	Dielectric and impedance spectroscopy analysis of lead-free (1-x)(K _{0.44} Na _{0.52} Li _{0.04})(Nb _{0.86} Ta _{0.10} Sb _{0.04})O ₃ -xBaTiO ₃ ceramics. <i>Ceramics International</i> , 2019, 45, 13347-13353.	2.3	23
126	Biologically formed hollow cuprous oxide microspheres. <i>Materials Science and Engineering C</i> , 2010, 30, 758-762.	3.8	22

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127	High photocatalytic property and crystal growth of spindle-like ZnO microparticles synthesized by one-step hydrothermal method. <i>Vacuum</i> , 2017, 144, 229-236.	1.6	22
128	Controlled hydrogenation into defective interlayer bismuth oxychloride via vacancy engineering. <i>Communications Chemistry</i> , 2020, 3, .	2.0	22
129	The role of oxygen vacancies in the high cycling endurance and quantum conductance in BiVO ₄ -based resistive switching memory. <i>Information Materials</i> , 2020, 2, 960-967.	8.5	21
130	Synthesis and characterization of cobalt doped green ceramic pigment from tannery sludge. <i>Ceramics International</i> , 2015, 41, 12693-12699.	2.3	20
131	Magnetic field actuated manipulation and transfer of oil droplets on a stable underwater superoleophobic surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16202-16207.	1.3	20
132	Facile synthesis of g-C ₃ N ₄ /BiOCl _{1-x} hybrids with efficient charge separation for visible-light photocatalysis. <i>Ceramics International</i> , 2020, 46, 10843-10850.	2.3	20
133	Transition-Metal Substitution-Induced Lattice Strain and Electrical Polarity Reversal in Monolayer WS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18650-18659.	4.0	20
134	Germanene Nanosheets: Achieving Superior Sodium Ion Storage via Pseudointercalation Reactions. <i>Small Structures</i> , 2021, 2, 2100041.	6.9	20
135	Understanding the origin of the high piezoelectric performance of KNN-based ceramics from the perspective of lattice distortion. <i>Ceramics International</i> , 2022, 48, 9731-9738.	2.3	20
136	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 8916-8920.	1.6	18
137	Recent Progress on Two-Dimensional Heterostructures for Catalytic, Optoelectronic, and Energy Applications. <i>ChemElectroChem</i> , 2019, 6, 2841-2851.	1.7	18
138	Facile preparation of flake-like blue TiO ₂ nanorod arrays for efficient visible light photocatalyst. <i>Ceramics International</i> , 2019, 45, 9754-9760.	2.3	17
139	Novel p-n type polyimide aerogels/BiOBr heterojunction for visible light activated high efficient photocatalytic degradation of organic contaminants. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163469.	2.8	17
140	Electronic Band Engineering in Elemental 2D Materials. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800749.	1.9	16
141	Facile constructing novel 3D porous g-C ₃ N ₄ /BiOBr _{0.2} hybrids: Efficient charge separation for visible-light photocatalysis. <i>Journal of Alloys and Compounds</i> , 2018, 767, 241-252.	2.8	16
142	Enhanced photocatalytic activity of novel TiO ₂ /Ag/MoS ₂ /Ag nanocomposites for water-treatment. <i>Ceramics International</i> , 2020, 46, 4889-4896.	2.3	16
143	Morphology engineering of atomic layer defect-rich CoSe ₂ nanosheets for highly selective electrosynthesis of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21340-21346.	5.2	16
144	Pressure Engineering for Extending Spectral Response Range and Enhancing Photoelectric Properties of Iodine. <i>Advanced Optical Materials</i> , 2021, 9, 2101163.	3.6	16

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145	Hydrothermal Synthesized Bismuth Ferrites Particles: Thermodynamic, Structural, and Magnetic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1684-1687.	0.9	15
146	Microwave-assisted synthesis and optical properties of cuprous oxide micro/nanocrystals. <i>Materials Research Bulletin</i> , 2014, 60, 704-708.	2.7	14
147	Investigating the effect of UV light pre-treatment on the oxygen activation capacity of Au/TiO ₂ . <i>Catalysis Science and Technology</i> , 2016, 6, 8188-8199.	2.1	14
148	Ultra-Tough Inverse Artificial Nacre Based on Epoxy-Graphene by Freeze-Casting. <i>Angewandte Chemie</i> , 2019, 131, 7718-7722.	1.6	14
149	Roles of Cocatalysts on BiVO ₄ Photoanodes for Photoelectrochemical Water Oxidation: A Minireview. <i>Energy & Fuels</i> , 2022, 36, 11394-11403.	2.5	14
150	Role of Atomic Interaction in Electronic Hybridization in Two-Dimensional Ag ₂ Ge Nanosheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16754-16760.	1.5	13
151	Synthesis and characterization of black ceramic pigments by recycling of two hazardous wastes. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	13
152	Direct cation exchange of surface ligand capped upconversion nanocrystals to produce strong luminescence. <i>Chemical Communications</i> , 2018, 54, 9587-9590.	2.2	13
153	Room temperature perpendicular exchange bias in CoNi/(Co,Ni)O multilayers with perpendicular magnetic anisotropy directly induced by FM/AFM interface. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 490-494.	1.0	13
154	Control of Photocarrier Separation and Recombination at Bismuth Oxyhalide Interface for Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9304-9312.	2.1	13
155	Recent Progress on 2D Kagome Magnets: Binary T _m Sn _n (T = Fe, Tj ETQq1 1.0.784314 rgBT /Dv	1.8	13
156	Synthesis of Fe ₃ O ₄ nanoparticles with tunable sizes for the removal of Cr(VI) from aqueous solution. <i>Journal of Coatings Technology Research</i> , 2018, 15, 1145-1155.	1.2	12
157	New monatomic layer clusters for advanced catalysis materials. <i>Science China Materials</i> , 2019, 62, 149-153.	3.5	12
158	Experimental Realization of Two-Dimensional Buckled Lieb Lattice. <i>Nano Letters</i> , 2020, 20, 2537-2543.	4.5	12
159	Epitaxial Growth of Quasi-One-Dimensional Bismuth-Halide Chains with Atomically Sharp Topological Non-Trivial Edge States. <i>ACS Nano</i> , 2021, 15, 14850-14857.	7.3	12
160	Rational design of two-dimensional hybrid Co/N-doped carbon nanosheet arrays for efficient bi-functional electrocatalysis. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1757-1763.	2.5	11
161	Construction of the novel polyimide/Bi ₂ MoO ₆ -OVs p-n type heterojunction aerogel photocatalysts to enhance the photodegradation on organic pollutants driven by the internal electric field. <i>Journal of Alloys and Compounds</i> , 2022, 919, 165848.	2.8	11
162	Evidence for the dynamic relaxation behavior of oxygen vacancies in Aurivillius Bi ₂ MoO ₆ from dielectric spectroscopy during resistance switching. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8915-8922.	2.7	10

#	ARTICLE	IF	CITATIONS
163	Improved electrical properties and luminescence properties of lead-free KNN ceramics via phase transition. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28819-28829.	1.1	10
164	Metal-silicene interaction studied by scanning tunneling microscopy. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 034002.	0.7	9
165	Synthesis and enhanced visible light photocatalytic activity of g-C ₃ N ₄ /BiOCl _x Br _{1-x} heterojunctions with adjustable energy band structure. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 132, 222-229.	1.9	9
166	Moiré-Potential-Induced Band Structure Engineering in Graphene and Silicene. <i>Small</i> , 2021, 17, e1903769.	5.2	9
167	Magnetolectric coupling in nanoscale 0-1 connectivity. <i>Nanoscale</i> , 2018, 10, 17370-17377.	2.8	8
168	Formation mechanism of rhombohedral L11 phase in CoPt films grown on glass substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 406-410.	1.0	8
169	Tunable Morphology and Magnetic Properties of Bi ₂ /Fe ₄ /O ₉ Nanocrystal Synthesized by Hydrothermal Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 2691-2695.	0.9	7
170	Ultra-thin Ga nanosheets: analogues of high pressure Ga. <i>Nanoscale</i> , 2019, 11, 17201-17205.	2.8	7
171	Synthesis of Ceramic Pigments with Chromium Content from Leather Waste. <i>Transactions of the Indian Ceramic Society</i> , 0, , 1-7.	0.4	7
172	Native Surface Oxides Featured Liquid Metals for Printable Self-Powered Photoelectrochemical Device. <i>Frontiers in Chemistry</i> , 2019, 7, 356.	1.8	6
173	Effect of zirconium non-stoichiometry on phase structure and electrical properties of (K,Nb)(Nb,Sb)O ₃ -(Bi,Nb)ZrO ₃ ceramics. <i>Ceramics International</i> , 2021, 47, 29864-29872.	2.3	6
174	Preparation of a Bi ₄ O ₅ I ₂ /Bi ₂ O ₂ CO ₃ p-n heterojunction with enhanced photocatalytic degradation performance by a one-pot solvothermal method. <i>Materials Science in Semiconductor Processing</i> , 2022, 141, 106447.	1.9	6
175	Facet-dependent Electronic Quantum Diffusion in the High-Order Topological Insulator Bi_4Br_6 . <i>Physical Review Applied</i> , 2022, 17, .	1.5	6
176	Growth Mechanism for ZnO Nanorod Array in a Metastable Supersaturation Solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 909-913.	0.9	5
177	Preparation and characterization of bifunctional Zn doped TiO ₂ aerogels toward Rhodamine B in water. <i>Materials Research Express</i> , 2018, 5, 115511.	0.8	5
178	Preparation and Characterization of Mg/Al/Fe Hydrotalcite with Superb Absorption Capacity toward Congo Red. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 866-875.	0.4	5
179	High permittivity and low dielectric loss of (1-x) Bi _{0.5} (Na _{0.48} K _{0.52}) _{0.5} TiO ₃ -xBaZrO ₃ lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10038-10046.	1.1	5
180	Reversible Potassium Intercalation in Blue Phosphorene-Au Network Driven by an Electric Field. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5584-5590.	2.1	5

#	ARTICLE	IF	CITATIONS
181	Reconstructing the Surface Structure of NaREF ₄ Upconversion Nanocrystals with a Novel K ⁺ Treatment. Chemistry of Materials, 2021, 33, 2548-2556.	3.2	5
182	Germanium Nanosheets with Dirac Characteristics as a Saturable Absorber for Ultrafast Pulse Generation (Adv. Mater. 32/2021). Advanced Materials, 2021, 33, 2170247.	11.1	5
183	In situ construction of Bi ₄ O ₅ I ₂ -Bi ₂ O ₂ CO ₃ -BiOCl _{0.8} I _{0.2} n-p-n heterojunction for enhanced photocatalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 126988.	2.3	5
184	Role of surface wettability in photoelectrocatalytic oxygen evolution reactions. Materials Today Energy, 2022, 25, 100961.	2.5	5
185	Starch-assisted synthesis and photocatalytic activity of monosized cuprous oxide octahedron microcrystals. Journal of Sol-Gel Science and Technology, 2016, 78, 347-352.	1.1	4
186	Phase boundary design and enhanced electrical properties in (Bi _{0.5} Li _{0.45} Ag _{0.05})(Zr _{0.98} Hf _{0.02})O ₃ -modified KNN-based lead-free piezoceramic. Journal of Materials Science: Materials in Electronics, 2021, 32, 18240-18250.	1.1	4
187	Boosting Light-Driven Photocatalytic Water Splitting of Bi ₄ NbO ₈ Br by Polarization Field. Solar Rrl, 2022, 6, .	3.1	4
188	Epitaxial growth mechanism of silicene on Ag(111). , 2014, , .		3
189	Relation of the phase transition and electrical, photoluminescence properties in (1-x)Na _{0.5} K _{0.5} NbO ₃ -xLiSbO ₃ :0.006Dy ³⁺ lead free ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 10507-10515.	1.1	3
190	Raman Studies on Silicene and Germanene. Surface Innovations, 0, , 1-31.	1.4	2
191	High Pressure Driven Isostructural Electronic Phase Separation in 2D BiOI. Physica Status Solidi - Rapid Research Letters, 2019, 13, .	1.2	2
192	Phase structure regulation and enhanced Curie temperature of (K,Na)NbO ₃ -based piezoelectric ceramics. Materials Technology, 2022, 37, 2955-2962.	1.5	2
193	Nanostructured Magnetic Materials. Journal of Nanomaterials, 2013, 2013, 1-2.	1.5	1
194	Seed mediated one-pot growth of versatile heterogeneous upconversion nanocrystals for multimodal bioimaging. , 2016, , .		1
195	Adsorption of Molecules on Silicene. Springer Series in Materials Science, 2016, , 215-242.	0.4	1
196	2D Heterostructures: Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation (Adv. Funct. Mater. 15/2019). Advanced Functional Materials, 2019, 29, 1970100.	7.8	1
197	Control synthesis of anatase TiO ₂ nanobelts via alkali-hydrothermal method for the optimal conditions. Journal of Materials Science: Materials in Electronics, 2019, 30, 6954-6962.	1.1	1
198	Functional materials for eco-catalysis of small molecules. EcoMat, 2021, 3, e12121.	6.8	1

#	ARTICLE	IF	CITATIONS
199	Fabrication and Magneto-Transport Properties of $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ Thin Films on Glass by Pulsed Laser Deposition. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 656-659.	0.4	1
200	Bio-Inducing Growth of ZnO Hollow Spheres in Lotus Root. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7439-7442.	0.9	0
201	Pb thin films on Si(111): Local density of states and defects. , 2014, , .		0
202	Surface Chemistry: Bio-Inspired Multifunctional Metallic Foams Through the Fusion of Different Biological Solutions (<i>Adv. Funct. Mater.</i> 18/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2720-2720.	7.8	0
203	Ultra-Tough Inverse Artificial Nacre Based on Epoxy-Graphene by Freeze-Casting (<i>Angew. Chem.</i> 126/2014). <i>Angewandte Chemie International Edition</i> , 2014, 53, 10784-10788.	10.784314	16