

Zhenhe Xu

List of Publications by Year in descending order

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77
papers

3,805
citations

94381

37
h-index

123376

61
g-index

78
all docs

78
docs citations

78
times ranked

4624
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Ag nanoparticles decorated g-C ₃ N ₄ for enhanced visible-light driven photocatalytic degradation and H ₂ production. , 2022, 1, 1-7.		7
2	Optimized design and mechanistic understanding of plasmon and upconversion enhanced broadband photocatalysts. Catalysis Today, 2020, 350, 25-32.	2.2	9
3	Atomic insights for Ag Interstitial/Substitutional doping into ZnIn ₂ S ₄ nanoplates and intimate coupling with reduced graphene oxide for enhanced photocatalytic hydrogen production by water splitting. Applied Catalysis B: Environmental, 2020, 279, 119403.	10.8	65
4	Designing 2D g-C ₃ N ₄ /Ag:ZnIn ₂ S ₄ nanocomposites for the high-performance conversion of sunlight energy into hydrogen fuel and the meaningful reduction of pollution. RSC Advances, 2020, 10, 32652-32661.	1.7	22
5	Broadband photocatalysts enabled by 0D/2D heterojunctions of near-infrared quantum dots/graphitic carbon nitride nanosheets. Applied Catalysis B: Environmental, 2020, 270, 118879.	10.8	70
6	Recent advances in visible-light-driven conversion of CO ₂ by photocatalysts into fuels or value-added chemicals. Carbon Resources Conversion, 2020, 3, 46-59.	3.2	64
7	<i>In situ</i> growth of CuS nanoparticles on g-C ₃ N ₄ nanosheets for H ₂ production and the degradation of organic pollutant under visible-light irradiation. RSC Advances, 2019, 9, 25638-25646.	1.7	18
8	Are lanthanide-doped upconversion materials good candidates for photocatalysis?. Nanoscale Horizons, 2019, 4, 579-591.	4.1	73
9	Ice-Assisted Synthesis of Black Phosphorus Nanosheets as a Metal-Free Photocatalyst: 2D/2D Heterostructure for Broadband H ₂ Evolution. Advanced Functional Materials, 2019, 29, 1902486.	7.8	116
10	Sphalerite Cu/ZnS Nanoparticles Derived from Cu/Zn-ZIF-8 for the Photocatalytic Degradation and Adsorption of Dyes. European Journal of Inorganic Chemistry, 2018, 2018, 1038-1046.	1.0	11
11	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. Applied Catalysis B: Environmental, 2018, 221, 77-85.	10.8	59
12	Facile synthesis of heterostructured YVO ₄ /g-C ₃ N ₄ /Ag photocatalysts with enhanced visible-light photocatalytic performance. Applied Catalysis B: Environmental, 2018, 224, 586-593.	10.8	91
13	Highly Uniform Hollow GdF ₃ Ellipsoids: Controllable Synthesis, Characterization and Up-Conversion Luminescence Properties. Journal of Nanoscience and Nanotechnology, 2018, 18, 5822-5827.	0.9	1
14	Facile Synthesis of GdF ₃ :Yb ³⁺ , Er ³⁺ , Tm ³⁺ @TiO ₂ -Ag Core-Shell Ellipsoids Photocatalysts for Photodegradation of Methyl Orange Under UV, Visible, and NIR Light Irradiation. Journal of Nanoscience and Nanotechnology, 2018, 18, 8216-8224.	0.9	2
15	Uniform and Well-Dispersed LuBO ₃ Hollow Microspheres: Synthesis, Formation and Photoluminescence Properties. Journal of Nanoscience and Nanotechnology, 2018, 18, 8302-8306.	0.9	2
16	Plasmonic Au-Loaded Hierarchical Hollow Porous TiO ₂ Spheres: Synergistic Catalysts for Nitroaromatic Reduction. Journal of Physical Chemistry Letters, 2018, 9, 5317-5326.	2.1	56
17	Large-scale fabrication of porous YBO ₃ hollow microspheres with tunable photoluminescence. Royal Society Open Science, 2018, 5, 172186.	1.1	6
18	Facile synthesis of hollow microspherical YPO ₄ : Eu ³⁺ /Tb ³⁺ using polystyrene spheres as sacrificial template and its photoluminescent properties. Micro and Nano Letters, 2018, 13, 583-587.	0.6	5

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19	Facile Synthesis and Down-Conversion Emission of RE ³⁺ -Doped Lutetium Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2850-2855.	0.9	5
20	Assembly of thiacalix[4]arene-supported high-nuclearity Cd ₂₄ cluster with enhanced photocatalytic activity. <i>Nanoscale</i> , 2018, 10, 14448-14454.	2.8	30
21	Large-scale synthesis and luminescence of GdPO ₄ hollow microspheres. <i>RSC Advances</i> , 2018, 8, 21857-21862.	1.7	8
22	Synthesis and up-conversion photoluminescence properties of uniform monodisperse YbPO ₄ :Ln ³⁺ (Ln ³⁺ = Er ³⁺ , Tm ³⁺ , Ho ³⁺) hollow microspheres. <i>New Journal of Chemistry</i> , 2017, 41, 8959-8964.	1.4	6
23	High-Efficiency Broadband C ₃ N ₄ Photocatalysts: Synergistic Effects from Upconversion and Plasmons. <i>ACS Catalysis</i> , 2017, 7, 6225-6234.	5.5	144
24	Synergistic effect of upconversion and plasmons in NaYF ₄ :Yb ³⁺ , Er ³⁺ , Tm ³⁺ @TiO ₂ Ag composites for MO photodegradation. <i>RSC Advances</i> , 2017, 7, 54555-54561.	1.7	13
25	Recent advancements in plasmon-enhanced promising third-generation solar cells. <i>Nanophotonics</i> , 2017, 6, 153-175.	2.9	72
26	Recent advancements in plasmon-enhanced visible light-driven water splitting. <i>Journal of Materiomics</i> , 2017, 3, 33-50.	2.8	70
27	Synthesis and luminescent properties of uniform monodisperse LuPO ₄ :Eu ³⁺ /Tb ³⁺ hollow microspheres. <i>Royal Society Open Science</i> , 2017, 4, 171451.	1.1	12
28	Facile synthesis and characterisation of uniform and monodispersed In(OH) ₃ and In ₂ O ₃ microcubes. <i>Micro and Nano Letters</i> , 2017, 12, 701-704.	0.6	1
29	Development of functional nanostructures and their applications in catalysis and solar cells. <i>Coordination Chemistry Reviews</i> , 2016, 320-321, 153-180.	9.5	40
30	Monodisperse Gd ₂ O ₃ :Ln ³⁺ (Ln ³⁺ =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 312 Synthesis and Multicolor Luminescence Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9731-9737.	0.9	4
31	Interfacial reaction-directed synthesis of a ceria nanotube-embedded ultra-small Pt nanoparticle catalyst with high catalytic activity and thermal stability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14148-14154.	5.2	34
32	Dopamine and ascorbic acid electro-oxidation on Au, AuPt and Pt nanoparticles prepared by pulse laser ablation in water. <i>Electrochimica Acta</i> , 2015, 159, 174-183.	2.6	56
33	Harvesting Lost Photons: Plasmon and Upconversion Enhanced Broadband Photocatalytic Activity in Core@Shell Microspheres Based on Lanthanide-Doped NaYF ₄ , TiO ₂ , and Au. <i>Facile Synthesis and Luminescence Properties of Y₂O₃:Ln³⁺</i>	7.8	263
34			

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37	Hydrothermally derived NaLuF ₄ :Yb ³⁺ , Ln ³⁺ (Ln ³⁺ = Er ³⁺ , Tm ³⁺ and Ho ³⁺) microstructures with controllable synthesis, morphology evolution and multicolor luminescence properties. <i>New Journal of Chemistry</i> , 2014, 38, 2629.	1.4	20
38	Facile Template-Free Fabrication of the hollow sea cucumber-like TbF ₃ and luminescent properties. <i>Materials Research Bulletin</i> , 2014, 60, 308-312.	2.7	3
39	Semiconductor and Metallic Core-Shell Nanostructures: Synthesis and Applications in Solar Cells and Catalysis. <i>Chemistry - A European Journal</i> , 2014, 20, 11256-11275.	1.7	39
40	Facile fabrication and photoluminescence properties of rare-earth-doped Gd ₂ O ₃ hollow spheres via a sacrificial template method. <i>Dalton Transactions</i> , 2013, 42, 11082.	1.6	33
41	Preparation and luminescence of La ₂ O ₃ :Ln ³⁺ (Ln ³⁺ = Er ³⁺ , Tm ³⁺) Tj ETQq1 1 0.784314 rgBT	1.7	44
42	Controllable synthesis, shape evolution, and luminescence properties of uniform and well-dispersed NaEuF ₄ microcrystals through hydrothermal route. <i>Materials Research Bulletin</i> , 2013, 48, 2797-2803.	2.7	7
43	Lanthanide coordination polymers constructed from 5-(4-pyridyl)-isophthalic acid: Synthesis, structure and photoluminescent properties. <i>Inorganic Chemistry Communication</i> , 2013, 35, 221-225.	1.8	6
44	Synthesis of hollow La ₂ O ₃ :Yb ³⁺ /Er ³⁺ /Tm ³⁺ microspheres with tunable up-conversion luminescence properties. <i>RSC Advances</i> , 2013, 3, 8407.	1.7	16
45	Hydrothermal Synthesis, Characterization and Luminescence Properties of YbVO ₄ :Ln ³⁺ (Ln ³⁺ = Er ³⁺ , Tm ³⁺) Tj ETQq1 1 0.784314 rgBT	1.7	44
46	Uniform and Well-Dispersed YbVO ₄ Hierarchical Nanoarchitectures: Synthesis and Luminescence Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 344-350.	0.9	3
47	Well-dispersed KRE ₃ F ₁₀ (RE = Sm ²⁺ , Lu, Y) nanocrystals: solvothermal synthesis and luminescence properties. <i>CrystEngComm</i> , 2012, 14, 670-678.	1.3	44
48	Monodisperse and core-shell structured SiO ₂ @Lu ₂ O ₃ :Ln ³⁺ (Ln=Eu, Tb, Dy, Sm, Er, Ho, and Tm) spherical particles: A facile synthesis and luminescent properties. <i>Journal of Solid State Chemistry</i> , 2012, 196, 301-308.	1.4	14
49	Self-assembled growth of LuVO ₄ nanoleaves: hydrothermal synthesis, morphology evolution, and luminescence properties. <i>RSC Advances</i> , 2012, 2, 11067.	1.7	24
50	Uniform and well-dispersed GdVO ₄ hierarchical architectures: hydrothermal synthesis, morphology evolution, and luminescence properties. <i>CrystEngComm</i> , 2012, 14, 5530.	1.3	32
51	General and facile method to fabricate uniform Y ₂ O ₃ :Ln ³⁺ (Ln ³⁺ = Eu ³⁺ , Tb ³⁺) hollow microspheres using polystyrene spheres as templates. <i>Journal of Materials Chemistry</i> , 2012, 22, 21695.	6.7	59
52	Large-scale synthesis of Lu ₂ O ₃ :Ln ³⁺ (Ln ³⁺ =Eu ³⁺ , Tb ³⁺ , Yb ³⁺ /Er ³⁺ , Yb ³⁺ /Tm ³⁺ , and Yb ³⁺ /Ho ³⁺) microspheres and their photoluminescence properties. <i>Materials Research Bulletin</i> , 2012, 47, 4137-4145.	2.7	14
53	Fine structural and morphological control of rare earth fluorides RE ₃ (RE = La ³⁺ , Lu, Y) nano/microcrystals: microwave-assisted ionic liquid synthesis, magnetic and luminescent properties. <i>CrystEngComm</i> , 2011, 13, 1003-1013.	1.3	113
54	Facile synthesis of an up-conversion luminescent and mesoporous Gd ₂ O ₃ :Er ³⁺ @mSiO ₂ @mSiO ₂ nanocomposite as a drug carrier. <i>Nanoscale</i> , 2011, 3, 661-667.	2.8	87

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55	A luminescent and mesoporous core-shell structured $\text{Gd}_2\text{O}_3@\text{Eu}^{3+}/\text{SiO}_2/\text{SiO}_2$ nanocomposite as a drug carrier. Dalton Transactions, 2011, 40, 4846.	1.6	53
56	Microwave-assisted hydrothermal synthesis and multicolor tuning luminescence of $\text{YPO}_4:\text{Ln}^{3+}$ ($\text{Ln}=\text{Eu}, \text{Dy}, \text{Sm}$) nanoparticles. Materials Chemistry and Physics, 2011, 129, 418-423.	2.0	18
57	Morphological control and luminescence properties of lanthanide orthovanadate LnVO_4 ($\text{Ln} = \text{La to Lu}$) nano-/microcrystals via hydrothermal process. CrystEngComm, 2011, 13, 474-482.	1.3	97
58	Monodisperse core-shell structured up-conversion $\text{Yb}(\text{OH})\text{CO}_3@\text{YbPO}_4:\text{Er}^{3+}$ hollow spheres as drug carriers. Biomaterials, 2011, 32, 4161-4173.	5.7	119
59	Urchin-like GdPO_4 and $\text{GdPO}_4:\text{Eu}^{3+}$ hollow spheres – hydrothermal synthesis, luminescence and drug-delivery properties. Journal of Materials Chemistry, 2011, 21, 3686.	6.7	97
60	Homogeneous one-dimensional structured $\text{Tb}(\text{OH})_3:\text{Eu}^{3+}$ nanorods: Hydrothermal synthesis, energy transfer, and tunable luminescence properties. Journal of Solid State Chemistry, 2010, 183, 451-457.	1.4	35
61	Luminescent Porous Silica Fibers as Drug Carriers. Chemistry - A European Journal, 2010, 16, 14513-14519.	1.7	38
62	Preparation and characterization of upconversion luminescent $\text{NaYF}_4:\text{Yb}, \text{Er}(\text{Tm})/\text{PS}$ bulk transparent nanocomposites through in situ polymerization. Journal of Colloid and Interface Science, 2010, 345, 262-268.	5.0	35
63	Tunable photoluminescence in monodisperse silica spheres. Journal of Colloid and Interface Science, 2010, 352, 278-284.	5.0	30
64	Self-assembled 3D architectures of lanthanide orthoborate: hydrothermal synthesis and luminescence properties. CrystEngComm, 2010, 12, 549-557.	1.3	41
65	Facile synthesis, growth mechanism and luminescence properties of uniform $\text{La}(\text{OH})_3@\text{Ho}^{3+}/\text{Yb}^{3+}$ and $\text{La}_2\text{O}_3@\text{Ho}^{3+}/\text{Yb}^{3+}$ nanorods. CrystEngComm, 2010, 12, 4208.	1.3	57
66	$\text{Eu}^{3+}/\text{Tb}^{3+}$ -Doped $\text{La}_2\text{O}_3/\text{CO}_3$ Nano/Microcrystals with Multiform Morphologies: Facile Synthesis, Growth Mechanism, and Luminescence Properties. Inorganic Chemistry, 2010, 49, 10522-10535.	1.9	114
67	Mesoporous SrF_2 and $\text{SrF}_2:\text{Ln}^{3+}$ ($\text{Ln} = \text{Ce}, \text{Tb}, \text{Yb}, \text{Er}$) Hierarchical Microspheres: Hydrothermal Synthesis, Growing Mechanism, and Luminescent Properties. Journal of Physical Chemistry C, 2010, 114, 6928-6936.	1.5	64
68	Self-Assembled 3D Urchin-Like $\text{NaY}(\text{MoO}_4)_2:\text{Eu}^{3+}/\text{Tb}^{3+}$ Microarchitectures: Hydrothermal Synthesis and Tunable Emission Colors. Journal of Physical Chemistry C, 2010, 114, 2573-2582.	1.5	141
69	Ln^{3+} ($\text{Ln} = \text{Eu}, \text{Dy}, \text{Sm}, \text{and Er}$) Ion-Doped YVO_4 Nano/Microcrystals with Multiform Morphologies: Hydrothermal Synthesis, Growing Mechanism, and Luminescent Properties. Inorganic Chemistry, 2010, 49, 6706-6715.	1.9	234
70	Synthesis of a Multifunctional Nanocomposite with Magnetic, Mesoporous, and Near-IR Absorption Properties. Journal of Physical Chemistry C, 2010, 114, 16343-16350.	1.5	67
71	Self-templated and self-assembled synthesis of nano/microstructures of Gd-based rare-earth compounds: morphology control, magnetic and luminescence properties. Physical Chemistry Chemical Physics, 2010, 12, 11315.	1.3	44
72	Hydrothermal synthesis and luminescent properties of $\text{Y}_2\text{O}_3:\text{Tb}^{3+}$ and $\text{Gd}_2\text{O}_3:\text{Tb}^{3+}$ microrods. Materials Research Bulletin, 2009, 44, 1850-1857.	2.7	49

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73	Fabrication and Luminescence Properties of One-Dimensional CaMoO ₄ : Ln ³⁺ (Ln = Eu, Tb, Dy) Nanofibers via Electrospinning Process. <i>Langmuir</i> , 2009, 25, 12340-12348.	1.6	108
74	Rare Earth Fluorides Nanowires/Nanorods Derived from Hydroxides: Hydrothermal Synthesis and Luminescence Properties. <i>Crystal Growth and Design</i> , 2009, 9, 4752-4758.	1.4	86
75	Uniform Ln(OH) ₃ and Ln ₂ O ₃ (Ln = Eu, Sm) Submicrospindles: Facile Synthesis and Characterization. <i>Crystal Growth and Design</i> , 2009, 9, 4127-4135.	1.4	36
76	Architectures of Strontium Hydroxyapatite Microspheres: Solvothermal Synthesis and Luminescence Properties. <i>Langmuir</i> , 2009, 25, 13591-13598.	1.6	83
77	Controlled Synthesis of Ln ³⁺ (Ln = Tb, Eu, Dy) and V ⁵⁺ Ion-Doped YPO ₄ Nano-/Microstructures with Tunable Luminescent Colors. <i>Chemistry of Materials</i> , 2009, 21, 4598-4607.	3.2	145