

Zhenhe Xu

List of Publications by Year in descending order

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times ranked

4624
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#	ARTICLE	IF	CITATIONS
1	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>Advanced Functional Materials</i> , 2015, 25, 2950-2960.	7.8	263
2	Ln ³⁺ (Ln = Eu, Dy, Sm, and Er) Ion-Doped YVO ₄ Nano/Microcrystals with Multiformal Morphologies: Hydrothermal Synthesis, Growing Mechanism, and Luminescent Properties. <i>Inorganic Chemistry</i> , 2010, 49, 6706-6715.	1.9	234
3	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
4	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
5	Self-Assembled 3D Urchin-Like NaY(MoO ₄) ₂ :Eu ³⁺ /Tb ³⁺ Microarchitectures: Hydrothermal Synthesis and Tunable Emission Colors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2573-2582.	1.5	141
6	Monodisperse core-shell structured up-conversion Yb(OH)CO ₃ @YbPO ₄ :Er ³⁺ hollow spheres as drug carriers. <i>Biomaterials</i> , 2011, 32, 4161-4173.	5.7	119
7	Ice-Assisted Synthesis of Black Phosphorus Nanosheets as a Metal-Free Photocatalyst: 2D/2D Heterostructure for Broadband H ₂ Evolution. <i>Advanced Functional Materials</i> , 2019, 29, 1902486.	7.8	116
8	Eu ³⁺ /Tb ³⁺ -Doped La ₂ O ₂ CO ₃ /La ₂ O ₃ Nano/Microcrystals with Multiformal Morphologies: Facile Synthesis, Growth Mechanism, and Luminescence Properties. <i>Inorganic Chemistry</i> , 2010, 49, 10522-10535.	1.9	114
9	Fine structural and morphological control of rare earth fluorides RE ₃ (RE = La, Lu, Y) nano/microcrystals: microwave-assisted ionic liquid synthesis, magnetic and luminescent properties. <i>CrystEngComm</i> , 2011, 13, 1003-1013.	1.3	113
10	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
11	Morphological control and luminescence properties of lanthanide orthovanadate LnVO ₄ (Ln = La to Lu) nano-/microcrystals via hydrothermal process. <i>CrystEngComm</i> , 2011, 13, 474-482.	1.3	97
12	Urchin-like GdPO ₄ and GdPO ₄ :Eu ³⁺ hollow spheres hydrothermal synthesis, luminescence and drug-delivery properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 3686.	6.7	97
13	Facile synthesis of heterostructured YVO ₄ /g-C ₃ N ₄ /Ag photocatalysts with enhanced visible-light photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 586-593.	10.8	91
14	Facile synthesis of an up-conversion luminescent and mesoporous Gd ₂ O ₃ :Er ³⁺ @nSiO ₂ @mSiO ₂ nanocomposite as a drug carrier. <i>Nanoscale</i> , 2011, 3, 661-667.	2.8	87
15	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
16	Architectures of Strontium Hydroxyapatite Microspheres: Solvothermal Synthesis and Luminescence Properties. <i>Langmuir</i> , 2009, 25, 13591-13598.	1.6	83
17	Are lanthanide-doped upconversion materials good candidates for photocatalysis?. <i>Nanoscale Horizons</i> , 2019, 4, 579-591.	4.1	73
18	Recent advancements in plasmon-enhanced promising third-generation solar cells. <i>Nanophotonics</i> , 2017, 6, 153-175.	2.9	72

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19	Recent advancements in plasmon-enhanced visible light-driven water splitting. <i>Journal of Materiomics</i> , 2017, 3, 33-50.	2.8	70
20	Broadband photocatalysts enabled by OD/2D heterojunctions of near-infrared quantum dots/graphitic carbon nitride nanosheets. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118879.	10.8	70
21	Synthesis of a Multifunctional Nanocomposite with Magnetic, Mesoporous, and Near-IR Absorption Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16343-16350.	1.5	67
22	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. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119403.	10.8	65
23	Mesoporous SrF ₂ and SrF ₂ :Ln ³⁺ (Ln = Ce, Tb, Yb, Er) Hierarchical Microspheres: Hydrothermal Synthesis, Growing Mechanism, and Luminescent Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6928-6936.	1.5	64
24	Recent advances in visible-light-driven conversion of CO ₂ by photocatalysts into fuels or value-added chemicals. <i>Carbon Resources Conversion</i> , 2020, 3, 46-59.	3.2	64
25	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
26	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 77-85.	10.8	59
27	Facile synthesis, growth mechanism and luminescence properties of uniform La(OH) ₃ :Ho ³⁺ /Yb ³⁺ and La ₂ O ₃ :Ho ³⁺ /Yb ³⁺ nanorods. <i>CrystEngComm</i> , 2010, 12, 4208.	1.3	57
28	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
29	Plasmonic Au-Loaded Hierarchical Hollow Porous TiO ₂ Spheres: Synergistic Catalysts for Nitroaromatic Reduction. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5317-5326.	2.1	56
30	A luminescent and mesoporous core-shell structured Gd ₂ O ₃ :Eu ³⁺ @nSiO ₂ /mSiO ₂ nanocomposite as a drug carrier. <i>Dalton Transactions</i> , 2011, 40, 4846.	1.6	53
31	Hydrothermal synthesis and luminescent properties of Y ₂ O ₃ :Tb ³⁺ and Gd ₂ O ₃ :Tb ³⁺ microrods. <i>Materials Research Bulletin</i> , 2009, 44, 1850-1857.	2.7	49
32	Self-templated and self-assembled synthesis of nano/microstructures of Gd-based rare-earth compounds: morphology control, magnetic and luminescence properties. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11315.	1.3	44
33	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
34	Preparation and luminescence of La ₂ O ₃ :Ln ³⁺ (Ln ³⁺ = Tj, ET, Q, O, O, rg, BT) / Overlock	1.7	44
35	Self-assembled 3D architectures of lanthanide orthoborate: hydrothermal synthesis and luminescence properties. <i>CrystEngComm</i> , 2010, 12, 549-557.	1.3	41
36	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

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37	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
38	Luminescent Porous Silica Fibers as Drug Carriers. <i>Chemistry - A European Journal</i> , 2010, 16, 14513-14519.	1.7	38
39	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
40	Homogeneous one-dimensional structured Tb(OH) ₃ :Eu ³⁺ nanorods: Hydrothermal synthesis, energy transfer, and tunable luminescence properties. <i>Journal of Solid State Chemistry</i> , 2010, 183, 451-457.	1.4	35
41	Preparation and characterization of upconversion luminescent NaYF ₄ :Yb, Er (Tm)/PS bulk transparent nanocomposites through in situ polymerization. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 262-268.	5.0	35
42	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
43	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
44	Uniform and well-dispersed GdVO ₄ hierarchical architectures: hydrothermal synthesis, morphology evolution, and luminescence properties. <i>CrystEngComm</i> , 2012, 14, 5530.	1.3	32
45	Tunable photoluminescence in monodisperse silica spheres. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 278-284.	5.0	30
46	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
47	Self-assembled growth of LuVO ₄ nanoleaves: hydrothermal synthesis, morphology evolution, and luminescence properties. <i>RSC Advances</i> , 2012, 2, 11067.	1.7	24
48	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. <i>RSC Advances</i> , 2020, 10, 32652-32661.	1.7	22
49	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
50	Microwave-assisted hydrothermal synthesis and multicolor tuning luminescence of YP _x V _{1-x} O ₄ :Ln ³⁺ (Ln=Eu, Dy, Sm) nanoparticles. <i>Materials Chemistry and Physics</i> , 2011, 129, 418-423.	2.0	18
51	<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. <i>RSC Advances</i> , 2019, 9, 25638-25646.	1.7	18
52	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
53	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
54	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

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55	Synergistic effect of upconversion and plasmons in NaYF ₄ :Yb ³⁺ , Er ³⁺ , Tm ³⁺ @TiO ₂ –Ag composites for MO photodegradation. RSC Advances, 2017, 7, 54555-54561.	1.7	13
56	Synthesis and luminescent properties of uniform monodisperse LuPO ₄ :Eu ³⁺ /Tb ³⁺ hollow microspheres. Royal Society Open Science, 2017, 4, 171451.	1.1	12
57	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
58	Rare Earth Fluoride Nano-/Microstructures: Hydrothermal Synthesis, Luminescent Properties and Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 1675-1692.	0.9	10
59	Y ₂ O ₃ :Ln ³⁺		

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73	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
74	Quasi-spherical LuBO ₃ nanoparticles: Synthesis, formation, and luminescence properties. Materials Research Bulletin, 2014, 51, 13-18.	2.7	1
75	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
76	Facile synthesis and characterisation of uniform and monodispersed In(OH) ₃ and In ₂ O ₃ microcubes. Micro and Nano Letters, 2017, 12, 701-704.	0.6	1
77	Hydrothermal Synthesis, Characterization and Luminescence Properties of YbVO ₄ :Ln ³⁺ (Ln ³⁺ = Er ³⁺ , Tm ³⁺ , Tj ETQq. 0.784314 rgBT	0.784314	1