

Zhongzi Xu

List of Publications by Year in descending order

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73
papers

1,535
citations

279487

23
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344852

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74
docs citations

74
times ranked

2277
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous morphology manipulation and upconversion luminescence enhancement of Yb^{2+} - NaYF_4 : Yb^{3+} / Er^{3+} microcrystals by simply tuning the KF dosage. <i>Scientific Reports</i> , 2015, 5, 12745.	1.6	133
2	Construction of Infrared-Light-Responsive Photoinduced Carriers Driver for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2020, 32, e1906361.	11.1	131
3	Controllable synthesis, formation mechanism and upconversion luminescence of Yb^{2+} - NaYF_4 : Yb^{3+} / Er^{3+} microcrystals by hydrothermal process. <i>CrystEngComm</i> , 2013, 15, 8366.	1.3	77
4	Construction of Self-Healing Internal Electric Field for Sustainably Enhanced Photocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1807934.	7.8	64
5	Near-Infrared Light and Solar Light Activated Self-Healing Epoxy Coating having Enhanced Properties Using MXene Flakes as Multifunctional Fillers. <i>Polymers</i> , 2018, 10, 474.	2.0	59
6	Bio-inspired design: Inner-motile multifunctional ZnO/CdS heterostructures magnetically actuated artificial cilia film for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 419-427.	10.8	56
7	Facile Fabrication of Cuprous Oxide-based Adsorbents for Deep Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3053-3061.	3.2	49
8	Crystal facet growth behavior and thermal stability of {001} faceted anatase TiO_2 : mechanistic role of gaseous HF and visible-light photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 2537.	1.3	47
9	Graphene strongly wrapped TiO_2 for high-reactive photocatalyst: A new sight for significant application of graphene. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 162-169.	5.0	46
10	Greatly enhanced photocatalytic activity by organic flexible piezoelectric PVDF induced spatial electric field. <i>Catalysis Science and Technology</i> , 2017, 7, 5594-5601.	2.1	42
11	A bio-inspired inner-motile photocatalyst film: a magnetically actuated artificial cilia photocatalyst. <i>Nanoscale</i> , 2014, 6, 5516-5525.	2.8	41
12	Synthesis and conductivity properties of $\text{Gd}_{0.8}\text{Ca}_{0.2}\text{BaCo}_2\text{O}_{5+\delta}$ double perovskite by sol-gel combustion. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9941-9948.	1.1	38
13	Self-Healing Epoxy Coatings via Focused Sunlight Based on Photothermal Effect. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700059.	1.7	34
14	Facile synthesis of Yb^{2+} - NaYF_4 : Ln^{3+} ($\text{Ln}=\text{Eu}, \text{Tb}, \text{Yb/Er}, \text{Yb/Tm}$) microcrystals with down- and up-conversion luminescence. <i>Journal of Materials Science</i> , 2013, 48, 4989-4998.	1.7	32
15	Molten salt synthesis of tetragonal LiYF_4 : Yb^{3+} / Ln^{3+} ($\text{Ln} = \text{Er}, \text{Tm}, \text{Ho}$) microcrystals with multicolor upconversion luminescence. <i>CrystEngComm</i> , 2013, 15, 6015.	1.3	31
16	Sustainable Internal Electric Field for Enhanced Photocatalysis: From Material Design to Energy Utilization. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7407-7416.	2.1	31
17	Effect of water on size-controllable synthesis of mesoporous Fe_3O_4 microspheres and their applications in waste water treatment. <i>CrystEngComm</i> , 2013, 15, 4755.	1.3	29
18	Thermally-Induced Self-Healing Behaviors and Properties of Four Epoxy Coatings with Different Network Architectures. <i>Polymers</i> , 2017, 9, 333.	2.0	29

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19	Synthesis of hydroxyapatite nanorods assisted by Pluronics. <i>Journal of Materials Science</i> , 2009, 44, 1258-1263.	1.7	28
20	The effect of lanthanum oxide ($\text{La}_{2}\text{O}_{3}$) on the structure and crystallization of poly(vinylidene fluoride). <i>Polymer International</i> , 2010, 59, 954-960.	1.6	28
21	Crystallinity and β Phase Fraction of PVDF in Biaxially Stretched PVDF/PMMA Films. <i>Polymers</i> , 2021, 13, 998.	2.0	27
22	Near-Infrared Light Triggered Soft Actuators in Aqueous Media Prepared from Shape-Memory Polymer Composites. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1111-1120.	1.7	26
23	Hydrothermal synthesis of ordered β - NaYF_4 nanorod self-assemblies with multicolor up- and down-conversions. <i>CrystEngComm</i> , 2014, 16, 1163.	1.3	24
24	Reaction and Crystallization Mechanism of Potassium Ditungstate Fibers Synthesized by Low-Temperature Calcination. <i>Crystal Growth and Design</i> , 2005, 5, 1399-1404.	1.4	22
25	Non-isothermal crystallization kinetics and melting behavior of EAA with different acrylic acid content. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 97, 959-967.	2.0	22
26	Development of a universal accelerated test for alkali-silica and alkali-carbonate reactivity of concrete aggregates. <i>Materials and Structures/Materiaux Et Constructions</i> , 2008, 41, 235-246.	1.3	20
27	Microwave absorption and infrared performance of $\text{Sm}_{0.5}\text{Sr}_{0.5}\text{Co}_{1-x}\text{Ni}_x\text{O}_3$ (0 \leq x \leq 1.0) with the K_2NiF_4 structure. <i>RSC Advances</i> , 2013, 3, 3967.	1.7	20
28	A Pragmatic Bilayer Selective Emitter for Efficient Radiative Cooling under Direct Sunlight. <i>Materials</i> , 2019, 12, 1208.	1.3	20
29	Effects of oxygen defects on structure and properties of $\text{Sm}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ annealed in different atmospheres. <i>Journal of Rare Earths</i> , 2013, 31, 1183-1190.	2.5	18
30	Remarkable thermoelectric property enhancement in Cu_2SnS_3 "CuCo ₂ S ₄ " nanocomposites via 3D modulation doping. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16928-16935.	5.2	18
31	Fabrication of Transparent Dysprosium Aluminum Garnet ($\text{Dy}_3\text{Al}_5\text{O}_{12}$) Ceramics via a Solid-State Reaction Method. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1714-1716.	1.9	17
32	Enhancement of photocatalytic performance of TaON by combining it with noble-metal-free MoS ₂ cocatalysts. <i>Journal of Materials Science</i> , 2019, 54, 5321-5330.	1.7	16
33	Effect of Different Aluminum Substitution Rates on the Structure of Tobermorite. <i>Materials</i> , 2019, 12, 3765.	1.3	15
34	Non-isothermal melt crystallization kinetics for ethylene-acrylic acid copolymer in diluents via thermally induced phase separation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 101, 243-254.	2.0	14
35	Preparation of Monodispersed Mesoporous Silica Spheres with Controllable Particle Size Under an Alkaline Condition. <i>International Journal of Applied Ceramic Technology</i> , 2012, 9, 1112-1123.	1.1	14
36	Synthesis of monodisperse erbium aluminum garnet (EAG) nanoparticles via a microwave method. <i>Journal of Rare Earths</i> , 2013, 31, 490-496.	2.5	13

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37	Luminescent and hydrophobic textile coatings with recyclability and self-healing capability against both chemical and physical damage. <i>Cellulose</i> , 2020, 27, 561-573.	2.4	13
38	High thermal radiation of Ca-doped lanthanum chromite. <i>RSC Advances</i> , 2015, 5, 30667-30674.	1.7	12
39	Solar Light Responsive Polymer Composites with Three Shape-Memory Effects. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 267-273.	1.7	12
40	Near-Infrared Light-Induced Sequential Shape Recovery and Separation of Assembled Temperature Memory Polymer Microparticles. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000043.	2.0	12
41	A Pragmatic and High-Performance Radiative Cooling Coating with Near-Ideal Selective Emissive Spectrum for Passive Cooling. <i>Coatings</i> , 2020, 10, 144.	1.2	12
42	Near-Infrared Upconversion Transparent Inorganic Nanofilm: Confined-Space Directed Oriented Crystal Growth and Distinctive Ultraviolet Emission. <i>Crystal Growth and Design</i> , 2016, 16, 5787-5797.	1.4	10
43	Facile Repair of Anti-Corrosion Polymeric Composite Coatings Based on Light Triggered Self-Healing. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100106.	1.7	10
44	Strength development and microstructure of hardened cement paste blended with red mud. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009, 24, 161-165.	0.4	9
45	Effect of Mineralogical Phase and Chemical Composition of Fly Ash on Electromagnetic Wave-Absorbing Properties. <i>Materials Transactions</i> , 2018, 59, 876-882.	0.4	9
46	Electromagnetic Wave-Absorbing Properties of Steel Slag. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 535-542.	1.2	9
47	Enhanced triplet-triplet annihilation upconversion by photonic crystals and Au plasma resonance for efficient photocatalysis. <i>Catalysis Science and Technology</i> , 2020, 10, 8325-8331.	2.1	9
48	Interfacial Design to Enhance Photocatalytic Hydrogen Evolution via Optimizing Energy and Mass Flows. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21207-21216.	4.0	9
49	Synthesis and luminescence properties of ternary complexes of Sm x Tb1-x (TTA)3Phen nanoparticles and their surface modification. <i>Journal of Materials Science</i> , 2013, 48, 5309-5315.	1.7	8
50	Effects of Blended Reversible Epoxy Domains on Structures and Properties of Self-Healing/Shape-Memory Thermoplastic Polyurethane. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900578.	1.7	8
51	In vivo behaviors of Ca(OH) ₂ activated nano SiO ₂ (n Ca /n Si = 3) cement in rabbit model. <i>Materials Science and Engineering C</i> , 2016, 58, 774-781.	3.8	7
52	Embedding of stereo molecular scaffold into the planar g-C ₃ N ₄ nanosheets for efficient photocatalytic hydrogen evolution under ordinary pressure. <i>Journal of Materials Science</i> , 2021, 56, 1630-1642.	1.7	6
53	The effect of nanoparticles on the properties of calcium aluminate cement pastes at high temperatures. <i>Advances in Cement Research</i> , 2018, 30, 195-203.	0.7	5
54	Manufacture of luminescent shape-memory polymer composites using rare earth organic complex and commercial carboxylated nitrile rubber. <i>Polymer Composites</i> , 2020, 41, 3732-3747.	2.3	5

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55	Synthesis and Study of Shape-Memory Polymers Selectively Induced by Near-Infrared Lights via In Situ Copolymerization. <i>Polymers</i> , 2017, 9, 181.	2.0	4
56	Microstructural Properties of Cement Paste and Mortar Modified by Low Cost Nanoplatelets Sourced from Natural Materials. <i>Materials</i> , 2018, 11, 783.	1.3	4
57	Sulfate resistance of Portland dolomite cement: performance and mechanisms. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	1.3	4
58	Combined effect of VA content and pH level of filler on properties of EPDM/SmBO ₃ and EPDM/ATO composites reinforced by three types of EVA. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1741-1749.	1.3	3
59	MOLTEN SALT SYNTHESIS OF YF ₃ :Yb ₃₊ /Ln ₃₊ (Ln = Er ³⁺ , Tm ³⁺) MICROSHEETS WITH MULTICOLOR UPCONVERSION LUMINESCENCE. <i>Functional Materials Letters</i> , 2013, 06, 1350061.	0.7	3
60	Novel spectral properties for La _{0.7} Ca _{0.3} CrO ₃ ceramics by Mo ⁶⁺ doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2412-2418.	1.1	3
61	Preparation and catalytic activity research of the Sr ₂ MgSi ₂ O ₇ :Eu ²⁺ , Dy ³⁺ /TiO ₂ composite catalyst. <i>Research on Chemical Intermediates</i> , 2015, 41, 8929-8940.	1.3	2
62	Photocatalysts: Construction of Self-Healing Internal Electric Field for Sustainably Enhanced Photocatalysis (Adv. Funct. Mater. 16/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970105.	7.8	2
63	Efficient photocatalytic H ₂ production realized by Mn-Cd ^x Se In situ heterojunction. <i>Nanotechnology</i> , 2021, 32, 365602.	1.3	2
64	Uniform Contraction and High Force Output of Photoresponsive Shape-Memory Polymer Actuators with Large Thickness Based on Vertical Distribution of Rare Earth Oxides. <i>Macromolecular Materials and Engineering</i> , 0, , 2100683.	1.7	2
65	Sulfate resistance of Portland-Limestone cement mortars cured at 20°C and 60°C. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 370-377.	1.7	2
66	Design of robust superamphiphobic surfaces with enlarged area fractions: the considerable role of Laplace pressure in dynamics of contact lines. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 9308-9315.	1.3	2
67	Triplet-Triplet Annihilation Up-Conversion Luminescent Assisted Free-Radical Reactions of Polymers Using Visible Light. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	2
68	Influence of Cu powders on the properties and characteristics of nano-MgO based aluminate cementitious materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 1285-1292.	2.0	1
69	Influence of annealing atmosphere on the electrical and spectral properties of Gd _{0.8} Ca _{0.2} BaCo ₂ O _{5+δ} ceramic. <i>Journal of Materials Science</i> , 2017, 52, 3794-3805.	1.7	1
70	Effects of Ligands in Rare Earth Complex on Properties, Functions, and Intelligent Behaviors of Polyurethane-Urethane Composites. <i>Polymers</i> , 2022, 14, 2098.	2.0	1
71	Heat treatment temperature effect on the microstructure and optical properties of Dy ₂ (WO ₄) ₃ powders. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 862-867.	0.4	0
72	Novel solar absorptive and infrared reflective properties of Cu-doped Sm _{0.5} Sr _{0.5} CoO ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11777-11782.	1.1	0

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73	Enhancement of fluorescent properties of photonic crystals containing triplet-triplet annihilation upconversion materials via adjusting incident angles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1680-1689.	1.1	0