

Jing-Tai Zhao

List of Publications by Year in descending order

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docs citations

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times ranked

2351
citing authors

#	ARTICLE	IF	CITATIONS
1	Mg-Li Hybrid Batteries: The Combination of Fast Kinetics and Reduced Overpotential. Energy Material Advances, 2022, 2022, .	11.0	10
2	Multiple Color Emission of Mechanoluminescence and Photoluminescence from SrZnSO: Bi ³⁺ for Multimode Anticounterfeiting. Inorganic Chemistry, 2022, 61, 4302-4311.	4.0	18
3	Particle-size controlled porous nano-flowers constructing 3D hierarchical mesoporous manganese dioxide: Template-free formation and capacitive performance. Journal of Energy Storage, 2021, 33, 102035.	8.1	3
4	Nanowires self-assemble into β -MnO ₂ nanospheres to form crosslinking 3D hierarchical porous networks: with template-free fabrication and good supercapacitive performance over a broad temperature range. Sustainable Energy and Fuels, 2021, 5, 4944-4954.	4.9	1
5	Regulating the trap distribution to achieve high-contrast mechanoluminescence with an extended saturation threshold through co-doping Nd ³⁺ into CaZnOS:Bi ³⁺ ,Li ⁺ . Journal of Materials Chemistry C, 2021, 9, 7689-7696.	5.5	18
6	Stabilized cubic phase BiAgSe _{2-x} S _x with excellent thermoelectric properties via phase boundary engineering. Journal of Materials Chemistry C, 2021, 9, 6766-6772.	5.5	4
7	Self-assembly of a g-C ₃ N ₄ -based 3D aerogel induced by N-modified carbon dots for enhanced photocatalytic hydrogen production. Journal of Materials Chemistry A, 2021, 9, 22373-22379.	10.3	25
8	Enhanced mechanically induced red-light emitting novel mechanoluminescence materials for ultrasonic visualization and monitoring applications. Journal of Materials Chemistry C, 2021, 9, 5868-5875.	5.5	25
9	Minimizing Thermal Conductivity for Boosting Thermoelectric Properties of Cu-Ni-Based Alloys through All-Scale Hierarchical Architectures. ACS Applied Energy Materials, 2021, 4, 5015-5023.	5.1	9
10	Optimization of electrical and thermal transport properties of layered Bi ₂ O ₂ Se via Nb doping. Journal of Materials Science, 2021, 56, 12732-12739.	3.7	3
11	Efficient energy transfer from Bi ³⁺ to Mn ²⁺ in CaZnOS for WLED application. Dalton Transactions, 2021, 50, 11130-11136.	3.3	14
12	The influence of Sc substitution on the crystal structure and scintillation properties of LuBO ₃ :Ce ³⁺ based on a combinatorial materials chip and high-throughput XRD. Journal of Materials Chemistry C, 2021, 9, 8666-8673.	5.5	3
13	The Electrical and Thermal Transport Properties of La-Doped SrTiO ₃ with Sc ₂ O ₃ Composite. Materials, 2021, 14, 6279.	2.9	1
14	Ultrahigh Spatial Resolution, Fast Decay, and Stable X-Ray Scintillation Screen through Assembling CsPbBr ₃ Nanocrystals Arrays in Anodized Aluminum Oxide. Advanced Optical Materials, 2021, 9, 2101297.	7.3	29
15	Metal-Ion-Cross-Linked Nitrogen-Doped Carbon Dot Hydrogels for Dual-Spectral Detection and Extractable Removal of Divalent Heavy Metal Ions. ACS Applied Nano Materials, 2021, 4, 13986-13994.	5.0	13
16	The equivalent and aliovalent dopants boosting the thermoelectric properties of YbMg ₂ Sb ₂ . Science China Materials, 2020, 63, 437-443.	6.3	16
17	Effective Mass Enhancement and Thermal Conductivity Reduction for Improving the Thermoelectric Properties of Pseudo-Binary Ge ₂ Sb ₂ Te ₅ . Annalen Der Physik, 2020, 532, 1900390.	2.4	8
18	Improved Phase Stability and Enhanced Luminescence of Calcite Phase LuBO ₃ :Ce ³⁺ through Ga ³⁺ Incorporation. Inorganic Chemistry, 2020, 59, 14513-14525.	4.0	9

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19	High-throughput screening platform for solid electrolytes combining hierarchical ion-transport prediction algorithms. <i>Scientific Data</i> , 2020, 7, 151.	5.3	90
20	CAVD, towards better characterization of void space for ionic transport analysis. <i>Scientific Data</i> , 2020, 7, 153.	5.3	43
21	Suppressing the dynamic precipitation and lowering the thermal conductivity for stable and high thermoelectric performance in BaCu ₂ Te ₂ based materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5323-5331.	10.3	16
22	Color manipulation of Bi ³⁺ -activated CaZnOS under stress with ultra-high efficiency and low threshold for anticounterfeiting applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3308-3315.	5.5	35
23	One Stone, Two Birds: pH- and Temperature-Sensitive Nitrogen-Doped Carbon Dots for Multiple Anticounterfeiting and Multiple Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20849-20858.	8.0	44
24	Analysis on the electronic trap of $\hat{\Gamma}^2$ -Ga ₂ O ₃ single crystal. <i>Journal of Materials Science</i> , 2019, 54, 12643-12649.	3.7	26
25	Intense red photoluminescence and mechanoluminescence from Mn ²⁺ -activated SrZnSO with a layered structure. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8070-8078.	5.5	33
26	Greatly Enhanced Faradic Capacities of 3D Porous Mn ₃ O ₄ /G Composites as Lithium-Ion Anodes and Supercapacitors by Ca-O-Mn Bonding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10178-10188.	8.0	56
27	Intentional Carrier Doping to Realize n-Type Conduction in Zintl Phases Eu ₅ YIn ₂ Sb ₆ . <i>Materials</i> , 2019, 12, 264.	2.9	3
28	Rapid, convenient and low-energy preparation of spherical rare earth doped YAG phosphors by a laser sintering method. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13070-13079.	5.5	19
29	Realizing High Thermoelectric Performance in BaCu ₂ AgTe ₂ through Enhanced Carrier Effective Mass and Point-Defect Scattering. <i>ACS Applied Energy Materials</i> , 2019, 2, 889-895.	5.1	26
30	The luminescence properties of CaZnOS: Bi ³⁺ , Sm ³⁺ , Li ⁺ phosphors with tunable emissions and energy transfer for white emission. <i>Journal of Luminescence</i> , 2019, 206, 578-584.	3.1	25
31	The effect of site occupation and valence state of Bi on the luminescence properties of Bi-activated oxysulfide MZnOS (M ²⁺ =Ca, Ba) with layer structure. <i>Journal of Alloys and Compounds</i> , 2018, 742, 1037-1045.	5.5	20
32	Two-dimensional mesoporous ZnCo ₂ O ₄ nanosheets as a novel electrocatalyst for detection of o-nitrophenol and p-nitrophenol. <i>Biosensors and Bioelectronics</i> , 2018, 112, 177-185.	10.1	102
33	Ordered mesoporous Co ₃ O ₄ nanospheres / reduced graphene oxide composites for rutin detection. <i>Ceramics International</i> , 2018, 44, 7858-7866.	4.8	23
34	Sodium Substitution in Lead Telluride. <i>Chemistry of Materials</i> , 2018, 30, 1362-1372.	6.7	27
35	Template-free and room-temperature synthesis of 3D sponge-like mesoporous Mn ₃ O ₄ with high capacitive performance. <i>Energy Storage Materials</i> , 2018, 11, 176-183.	18.0	31
36	Synthesis and characterization of rhombic dodecahedral YAG microcrystals with good dispersity, high crystallinity and controllable crystal size. <i>CrystEngComm</i> , 2018, 20, 7773-7781.	2.6	4

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37	Synthesis and characterization of monodisperse yttrium aluminum garnet (YAG) micro-crystals with rhombic dodecahedron. <i>Journal of Alloys and Compounds</i> , 2018, 762, 537-547.	5.5	6
38	Facile synthesis of hierarchical mesoporous beta-manganese dioxide nanoflowers with extremely high specific surface areas for high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2018, 284, 52-59.	5.2	12
39	Thermoelectric stability of Eu- and Na-substituted PbTe. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9482-9493.	5.5	18
40	Weak Interactions under Pressure: CuBi and Its Analogues. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5620-5624.	13.8	22
41	Spectrum regulation of YAG:Ce transparent ceramics with Pr, Cr doping for white light emitting diodes application. <i>Journal of the European Ceramic Society</i> , 2017, 37, 3403-3409.	5.7	103
42	Monodisperse $\text{Na}_x\text{Y}(\text{OH})_y\text{F}_{3+x}$ Mesocrystals with Tunable Morphology and Chemical Composition: pH-Mediated Ion-Exchange. <i>Crystal Growth and Design</i> , 2017, 17, 711-718.	3.0	9
43	Electronic compensation-induced stabilization of carbon dots@PMMA under UV aging. <i>New Journal of Chemistry</i> , 2017, 41, 13222-13225.	2.8	2
44	$\text{Ca}^{1\pm}\text{-SiAlON:Eu}$ Phosphors: Oxidation States, Energy Transfer, and Emission Enhancement by Incorporation-Aimed Surface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30982-30991.	8.0	4
45	Cd substitution in Zintl phase $\text{Eu}_5\text{In}_2\text{Sb}_6$ enhancing the thermoelectric performance. <i>Journal of Alloys and Compounds</i> , 2017, 726, 618-622.	5.5	7
46	Ordered Mesoporous NiCo_2O_4 Nanospheres as a Novel Electrocatalyst Platform for 1-Naphthol and 2-Naphthol Individual Sensing Application. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29771-29781.	8.0	39
47	Preparation and Optical Properties of Infrared Transparent 3Y-TZP Ceramics. <i>Materials</i> , 2017, 10, 390.	2.9	11
48	Enhanced thermoelectric properties of BaZn_2Sb_2 via a synergistic optimization strategy using co-doped Na and Sr. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12119-12125.	10.3	19
49	Solid solution $\text{Pb}_{1-x}\text{Eu}_x\text{Te}$: constitution and thermoelectric behavior. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1152-1159.	6.0	17
50	Three dimensional plasmonic assemblies of AuNPs with an overall size of sub-200 nm for chemo-photothermal synergistic therapy of breast cancer. <i>Nanoscale</i> , 2016, 8, 18682-18692.	5.6	38
51	A Novel Small-Molecule Compound of Lithium Iodine and 3-Hydroxypropionitrile as a Solid-State Electrolyte for Lithium-Air Batteries. <i>Inorganic Chemistry</i> , 2016, 55, 6504-6510.	4.0	15
52	Effect of manganese doping on the thermoelectric properties of Zintl phase EuCd_2Sb_2 . <i>Journal of Rare Earths</i> , 2015, 33, 1093-1097.	4.8	14
53	Zintl-Phase $\text{Sr}_3\text{LiAs}_2\text{H}$: Crystal Structure and Chemical Bonding Analysis by the Electron Localizability Approach. <i>Chemistry - A European Journal</i> , 2015, 21, 14471-14477.	3.3	9
54	A Novel Facile Room Temperature Chemical Lithiation for Reduction of Eu^{3+} in NASICON Crystal Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1527-1532.	1.2	2

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55	Luminescence properties of Eu ³⁺ -doped new scheelite-type compounds. Journal of Rare Earths, 2015, 33, 1241-1245.	4.8	13
56	Thermoelectric properties of Eu- and Na-substituted SnTe. Journal of Rare Earths, 2015, 33, 1175-1181.	4.8	13
57	Energy Transfer Study on Dense Eu ³⁺ /Tb ³⁺ -Coactivated Oxyfluoride Borogermanate Scintillating Glasses. Journal of the American Ceramic Society, 2015, 98, 781-787.	3.8	35
58	Purification, organophilicity and transparent fluorescent bulk material fabrication derived from hydrophilic carbon dots. RSC Advances, 2015, 5, 14492-14496.	3.6	4
59	Low temperature synthesis of monodispersed YAG:Eu crystallites by hydrothermal method. Journal of Alloys and Compounds, 2015, 647, 1075-1080.	5.5	25
60	Dimensional Reduction From 2D Layer to 1D Band for Germanophosphates Induced by the Tailor Effect of Fluoride. Inorganic Chemistry, 2015, 54, 6978-6985.	4.0	13
61	Synthesis, characterization and luminescence properties of NaY(OH) x F 4-x : Sm with spindle shape. Materials Research Bulletin, 2015, 68, 289-294.	5.2	2
62	Role of minor quantity of Si _{3N₄} addition on the optical properties of Ce ³⁺ -activated borogermanate scintillating glass. Optical Materials Express, 2015, 5, 1381.	3.0	7
63	Vacuum ultraviolet spectroscopic properties of rare-earth (RE ³⁺ = Sm ³⁺ , Tb ³⁺ , Dy ³⁺)-activated zirconium-based phosphates MZr ₄ (PO ₄) ₆ (M ²⁺ = Ca ²⁺ , Sr ²⁺). Optical Materials, 2015, 39, 251-257.	3.6	13
64	Investigation on the luminescent properties of Eu ³⁺ -activated dense oxyfluoride borogermanate scintillating glasses. Journal of Non-Crystalline Solids, 2014, 404, 162-166.	3.1	18
65	A Simple and Highly Efficient Method for Synthesis of Ce ³⁺ -Activated Borogermanate Scintillating Glasses in Air. Journal of the American Ceramic Society, 2014, 97, 3388-3391.	3.8	35
66	Photoluminescence properties of Pr ³⁺ , Sm ³⁺ and Tb ³⁺ doped SrAlSi ₄ N ₇ and energy level locations of rare-earth ions in SrAlSi ₄ N ₇ . Journal of Materials Chemistry C, 2014, 2, 7952-7959.	5.5	30
67	VUV spectroscopic properties of rare-earth (RE=Eu, Tb and Dy)-doped A ₂ Zr(PO ₄) ₂ (A=Li, Na and K) phosphates. Journal of Rare Earths, 2014, 32, 946-951.	4.8	16
68	3D network mesoporous beta -manganese dioxide: Template-free synthesis and supercapacitive performance. Journal of Power Sources, 2014, 270, 411-417.	7.8	33
69	Luminescent Properties of Eu ³⁺ -activated (Ba ₂ B ₂ O ₇) _x (GeO ₂) ₂ (Gd ₂ O ₃) ₃ Scintillating Glasses. IEEE Transactions on Nuclear Science, 2014, 61, 380-384.	2.0	3
70	Beta-manganese dioxide nanoflowers self-assembled by ultrathin nanoplates with enhanced supercapacitive performance. Journal of Materials Chemistry A, 2014, 2, 9353.	10.3	36
71	Zintl phase compounds AM ₂ Sb ₂ (A=Ca, Sr, Ba, Eu, Yb; M=Zn, Cd) and their substitution variants: a class of potential thermoelectric materials. Journal of Rare Earths, 2013, 31, 1029-1038.	4.8	52
72	Luminescent properties of Tb ³⁺ -activated B ₂ O ₃ -GeO ₂ -Gd ₂ O ₃ scintillating glasses. Journal of Non-Crystalline Solids, 2013, 379, 127-130.	3.1	67

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73	Three-Dimensional Network Mesoporous Nanostructured δ -Manganese Dioxide with High Supercapacitive Performance: Facile, Environmental and Large-Scale Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3719-3725.	2.0	13
74	Photoluminescence properties and energy levels of RE (RE=Pr, Sm, Er, Tm) in layered-CaZnOS oxysulfide. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	24
75	Eu^{3+} -Activated Borogermanate Scintillating Glass with a High Gd_2O_3 Content. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1483-1489.	3.8	67
76	Enhanced Thermoelectric Figure of Merit of Zintl Phase $\text{YbCd}_2\text{Mn}_x\text{Sb}_2$ by Chemical Substitution. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4043-4048.	2.0	89
77	Transport properties of Zintl phase $\text{Yb}_{1-x}\text{Ca}_x\text{Cd}_2\text{Sb}_2$ at low temperature. <i>Journal of Rare Earths</i> , 2010, 28, 403-406.	4.8	3
78	Zintl phase $\text{Yb}_{1-x}\text{Ca}_x\text{Cd}_2\text{Sb}_2$ with tunable thermoelectric properties induced by cation substitution. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	78
79	Luminescent metastable $\text{Y}_2\text{WO}_6:\text{Ln}^{3+}$ (Ln = Eu, Er, Sm, and Dy) microspheres with controllable morphology via self-assembly. <i>Journal of Materials Chemistry</i> , 2010, 20, 10894.	6.7	49
80	Synthesis and properties of CaCd_2Sb_2 and EuCd_2Sb_2 . <i>Intermetallics</i> , 2010, 18, 193-198.	3.9	65
81	Synthesis and high thermoelectric efficiency of Zintl phase $\text{YbCd}_2\text{Zn}_x\text{Sb}_2$. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	148
82	Vacuum ultraviolet spectroscopic properties of rare earth (RE) (RE=Eu, Tb, Dy, Sm, Tm)-doped $\text{K}_2\text{GdZr}(\text{PO}_4)_3$ phosphate. <i>Solid State Sciences</i> , 2009, 11, 549-555.	3.2	46
83	VUV spectroscopic properties of rare-earth (RE^{3+} = Eu, Tb,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (Tm)-doped phosphate. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 105503.	2.8	15
84	A new type of thermoelectric material, EuZn_2Sb_2 . <i>Journal of Chemical Physics</i> , 2008, 129, 164713.	3.0	133
85	Luminescence properties of $\text{CaZr}(\text{PO}_4)_2:\text{RE}$ (RE = Eu^{3+} , Tb^{3+} , Tm^{3+}) under x-ray and VUV-UV excitation. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1910-1914.	2.8	45
86	$\text{Ba}_3\text{BP}_3\text{O}_{12}:\text{Eu}^{2+}$ A potential scintillation material. <i>Applied Physics Letters</i> , 2005, 87, 201917.	3.3	16
87	A novel scintillation screen for achieving high-energy ray detection with fast and full-color emission. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	15
88	Significant enhancement of scintillation performance by inducing oxygen vacancies in alkali metal ion (A^{+} = Li, Na, K)-incorporated (Lu,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 Td		