Baiqi Shao

List of Publications by Year in descending order

66 papers	2,074 citations	186265 28 h-index	243625 44 g-index
66 all docs	66 docs citations	66 times ranked	1928 citing authors

#	Article	IF	Citations
1	Prevailing Strategies to Tune Emission Color of Lanthanideâ€Activated Phosphors for WLED Applications. Advanced Optical Materials, 2019, 7, 1900319.	7.3	174
2	Sr₃GdNa(PO₄)₃F:Eu²⁺,Mn²⁺: a potential color tunable phosphor for white LEDs. Journal of Materials Chemistry C, 2014, 2, 90-97.	5.5	130
3	Crystal Structure and Luminescence Properties of Ca₈Mg₃Al₂Si₇O₂₈:Eu²⁺ for WLEDs. Advanced Optical Materials, 2014, 2, 183-188.	7.3	120
4	Carbonâ€Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. Advanced Energy Materials, 2018, 8, 1801258.	19.5	111
5	Noneâ€rareâ€earth activated Ca₁₄Al₁₀Zn₆O₃₅:Bi³⁺,Mn⁴⁺ phosphor involving dual luminescent centers for temperature sensing. Journal of the American Ceramic Society, 2019, 102, 7436-7447.	3.8	70
6	Site Occupation and Luminescence of Novel Orange-Red Ca₃M₂Ge₃O₁₂:Mn²⁺,Mn⁴⁺ (M) Tj ET Q q 0 0 0 rg BT /Ove	5.7	70
7	Photoluminescence and temperature sensing of lanthanide Eu3+ and transition metal Mn4+ dual-doped antimoniate phosphor through site-beneficial occupation. Ceramics International, 2020, 46, 22164-22170.	4.8	66
8	Enhancing Luminescence and Controlling the Mn Valence State of Gd₃Ga_{5â€“xâ€“Î´}Al_{xâ€“y+Î´}O₁₂:yMn Phosphors by the Design of the Garnet Structure. ACS Applied Materials & Interfaces, 2020, 12, 7334-7344.	8.0	62
9	Generation of orange and green emissions in Ca₂GdZr₂(AlO₄)₃:Ce³⁺, Mn²⁺, Tb³⁺ garnets via energy transfer with Mn²⁺ and Tb³⁺ as acceptors. Journal of Materials Chemistry C, 2015, 3, 2334-2340.	5.5	58
10	Adjustable photoluminescence of Bi3+ and Eu3+ in solid solution constructed by isostructural end components through composition and excitation-driven strategy. Chemical Engineering Journal, 2021, 421, 127735.	12.7	55
11	Designing of UCNPs@Bi@SiO₂ Hybrid Theranostic Nanoplatforms for Simultaneous Multimodal Imaging and Photothermal Therapy. ACS Applied Materials & Interfaces, 2019, 11, 394-402.	8.0	50
12	Luminescence and temperature sensing abilities of zincate phosphors co-doped bismuth Bi3+ and lanthanide Eu3+/Sm3+. Materials Research Bulletin, 2020, 129, 110869.	5.2	49
13	Luminescence properties and energy transfer of novel Bi³⁺ and Mn²⁺-co-activated Y₃Ga₅O₁₂ single-component white light-emitting phosphor. Journal of Materials Chemistry C, 2020, 8, 12231-12239.	5.5	43
14	Biocompatible and pHâ€Responsive Colloidal Surfactants with Tunable Shape for Controlled Interfacial Curvature. Angewandte Chemie - International Edition, 2020, 59, 9365-9369.	13.8	41
15	Anisotropic Protein Organofibers Encoded With Extraordinary Mechanical Behavior for Cellular Mechanobiology Applications. Angewandte Chemie - International Edition, 2020, 59, 21481-21487.	13.8	39
16	Genetically Engineered Supercharged Polypeptide Fluids: Fast and Persistent Selfâ€Ordering Induced by Touch. Angewandte Chemie - International Edition, 2018, 57, 6878-6882.	13.8	38
17	Optical thermometric properties in Tb3+ and Eu3+-coactivated dual-emissive fluorophosphate phosphors. Optics and Laser Technology, 2020, 123, 105938.	4.6	38
18	Structure and photoluminescence properties of novel Ca2NaSiO4F:Re (Re = Eu2+, Ce3+, Tb3+) phosphors with energy transfer for white emitting LEDs. Journal of Materials Chemistry C, 2014, 2, 4304-4311.	5.5	37

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19	Novel NIR LaGaO₃:Cr³⁺,Ln³⁺ (Ln = Yb, Nd, Er) phosphors via energy transfer for Câ€“Si-based solar cells. Dalton Transactions, 2019, 48, 11460-11468.	3.3	36
20	Efficient sensitization of Mn2+ emission by Eu2+ in Ca12Al14O33Cl2 host under UV excitation. RSC Advances, 2013, 3, 16034.	3.6	35
21	Enhancing Photoluminescence Performance of SrSi₂O₂N₂:Eu²⁺ Phosphors by Re (Re = La, Gd, Y, Dy,) Tj ETQq1 1 0.784314 rgBT /O 9060-9065.	4.0	35
22	YF₃:Eu³⁺ Micro-Single Crystals: Fine Morphological Tuning and Luminescence Properties. Crystal Growth and Design, 2013, 13, 3582-3587.	3.0	34
23	Emission Enhancement and Color Tuning for GdVO₄:Ln³⁺ (Ln = Dy, Eu) by Surface Modification at Single Wavelength Excitation. Inorganic Chemistry, 2017, 56, 282-291.	4.0	33
24	Synthesis and luminescent properties of uniform monodisperse YBO3:Eu3+/Tb3+ microspheres. CrystEngComm, 2014, 16, 5543.	2.6	32
25	Novel Twoâ€Step Topotactic Transformation Synthetic Route Towards Monodisperse LnOF:Re,³⁺ (Ln = Y, Prâ€“Lu) Nanocrystals with Down/Upconversion Luminescence Properties. Advanced Optical Materials, 2015, 3, 583-592.	7.3	32
26	An intense NIR emission from Ca₁₄Al₁₀Zn₆O₃₅:Mn⁴⁺,Yb³⁺via energy transfer for solar spectral converters. Dalton Transactions, 2016, 45, 466-468.	3.3	32
27	Phase-Tunable Synthesis of Monodisperse YPO₄:Ln³⁺ (Ln = Ce, Eu, Tb) Micro/Nanocrystals via Topotactic Transformation Route with Multicolor Luminescence Properties. Inorganic Chemistry, 2017, 56, 6114-6121.	4.0	32
28	UCNPâ€“Bi₂Se₃ Upconverting Nanohybrid for Upconversion Luminescence and CT Imaging and Photothermal Therapy. Chemistry - A European Journal, 2020, 26, 1127-1135.	3.3	31
29	Topotactic Transformation Route to Monodisperse Î²-NaYF₄:Ln³⁺ Microcrystals with Luminescence Properties. Inorganic Chemistry, 2016, 55, 1912-1919.	4.0	28
30	One-pot synthesis of Ln³⁺-doped porous BiF₃@PAA nanospheres for temperature sensing and pH-responsive drug delivery guided by CT imaging. Nanoscale, 2020, 12, 695-702.	5.6	28
31	Monodisperse YVO4:Eu3+ submicrocrystals: controlled synthesis and luminescence properties. CrystEngComm, 2013, 15, 5776.	2.6	27
32	A novel synthetic route towards monodisperse Î²-NaYF₄:Ln³⁺micro/nanocrystals from layered rare-earth hydroxides at ultra low temperature. Chemical Communications, 2014, 50, 12706-12709.	4.1	25
33	Synthesis, luminescence and application of novel europium, cerium and terbium-doped apatite phosphors. CrystEngComm, 2019, 21, 6226-6237.	2.6	24
34	Luminous tuning in Eu3+/Mn4+ co-doped double perovskite structure by designing the site-occupancy strategy for solid-state lighting and optical temperature sensing. Materials Research Bulletin, 2022, 149, 111704.	5.2	22
35	Novel synthesis and luminescence properties of t-LaVO₄:Eu³⁺micro cube. CrystEngComm, 2014, 16, 152-158.	2.6	21
36	A two-step synthetic route to GdOF:Ln³⁺ nanocrystals with multicolor luminescence properties. Dalton Transactions, 2016, 45, 2485-2491.	3.3	21

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37	Engineered Anisotropic Fluids of Rareâ€Earth Nanomaterials. Angewandte Chemie - International Edition, 2020, 59, 18213-18217.	13.8	20
38	Preparation of zero-thermal-quenching tunable emission bismuth-containing phosphors through the topochemical design of ligand configuration. Inorganic Chemistry Frontiers, 2021, 8, 4072-4085.	6.0	20
39	Color tuning and energy transfer investigation in Na2Ca4Mg2Si4O15:Eu2+, Mn2+ phosphor and its potential application for UV-excited UV-WLEDs. RSC Advances, 2014, 4, 7588.	3.6	19
40	Syntheses, crystal structures and photoluminescence properties of Ca₉Y(PO₄)₅(SiO₄)F_{1.5}O_{0.25}:Ln³⁺ (Ln³⁺ = Eu³⁺/Tb³⁺/Dy³⁺/Sm³⁺) phosphors for near-UV white LEDs. RSC Advances, 2016, 6, 92371-92377.	3.6	18
41	Constructing a Model for Tuning the Thermal Quenching Properties of Bismuth-Doped Phosphors by Energy-Gap Modulation. Journal of Physical Chemistry C, 2021, 125, 20717-20726.	3.1	15
42	A library of thermotropic liquid crystals of inorganic nanoparticles and extraordinary performances based on their collective ordering. Nano Today, 2021, 38, 101115.	11.9	14
43	Thermal Quenching Mechanism of Metalâ€“Metal Charge Transfer State Transition Luminescence Based on Double-Band-Gap Modulation. Inorganic Chemistry, 2022, 61, 9823-9831.	4.0	14
44	Two-step ion-exchange synthetic strategy for obtaining monodisperse NaYF₄:Ln³⁺ nanostructures with multicolor luminescence properties. Journal of Materials Chemistry C, 2015, 3, 1091-1098.	5.5	13
45	Facile Synthesis of Lanthanide (Ce, Eu, Tb, Ce/Tb, Yb/Er, Yb/Ho, and Yb/Tm)â€Doped LnF₃ and LnOF Porous Subâ€Microspheres with Multicolor Emissions. Chemistry - an Asian Journal, 2017, 12, 3046-3052.	3.3	13
46	Facile large-scale synthesis of monodisperse REF₃(RE = Y, Ce, Nd, Sm-Lu) nano/microcrystals and luminescence properties. Journal of Materials Chemistry C, 2014, 2, 7666.	5.5	12
47	A colorimetric optical thermometry of host-sensitized Pr³⁺-doped niobate phosphors based on electronic-rich-site strategy. Dalton Transactions, 2021, 50, 7026-7040.	3.3	12
48	Photoluminescence and optical temperature measurement of Mn4+/Er3+ co-activated double perovskite phosphor through site-advantageous occupation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 259, 119797.	3.9	12
49	A novel tunable Na2Ba6(Si2O7)(SiO4)2:Ce3+,Mn2+ phosphor with excellent thermal stability for white light emitting diodes. RSC Advances, 2014, 4, 14074-14080.	3.6	11
50	A novel topotactic transformation route towards monodispersed YOF:Ln³⁺ (Ln = Eu, Tb,) Tj ETQq0 0 0 rgBT /Overlock 10 T 9208-9215.	5.5	11
51	Photoluminescence and ratiometric fluorescence temperature sensing abilities of zincate phosphors. Journal of Luminescence, 2020, 228, 117600.	3.1	11
52	Synthesis, Structure, and Photoluminescence Properties of Novel KBaSc₂(PO₄)₃:Ce³⁺/Eu²⁺/Tb³⁺ Phosphors for Whiteâ€Lightâ€Emitting Diodes. ChemPhysChem, 2015, 16, 2663-2669.	2.1	10
53	Genetically Engineered Supercharged Polypeptide Fluids: Fast and Persistent Selfâ€Ordering Induced by Touch. Angewandte Chemie, 2018, 130, 6994-6998.	2.0	8
54	Anisotropic Protein Organofibers Encoded With Extraordinary Mechanical Behavior for Cellular Mechanobiology Applications. Angewandte Chemie, 2020, 132, 21665-21671.	2.0	8

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55	NIR-triggered upconversion nanoparticles@thermo-sensitive liposome hybrid theranostic nanoplatform for controlled drug delivery. RSC Advances, 2021, 11, 29065-29072.	3.6	8
56	Cr3+/Yb3+/Nd3+-doped Ba2LaGa11O20 broadband NIR phosphors for NIR pc-LED and c-Si solar cells. Optical Materials, 2022, 127, 112290.	3.6	7
57	Facile hydrothermal synthesis and luminescent properties of Eu-doped CaF₂â€“YF₃alkaline-earth ternary fluoride microspheres. RSC Advances, 2014, 4, 35750.	3.6	5
58	A structural topotactical transformation synthetic strategy for Y2O2S:Ln3+ micro/nanocrystals with multicolor emissions. Journal of Materials Chemistry C, 2020, 8, 1440-1447.	5.5	5
59	Engineered Anisotropic Fluids of Rareâ€Earth Nanomaterials. Angewandte Chemie, 2020, 132, 18370-18374.	2.0	5
60	Biocompatible and pHâ€Responsive Colloidal Surfactants with Tunable Shape for Controlled Interfacial Curvature. Angewandte Chemie, 2020, 132, 9451-9455.	2.0	5
61	Crystal structures, tunable emission and energy transfer of a novel GdAl₁₂O₁₈N:Eu²⁺,Tb³⁺ oxynitride phosphor. New Journal of Chemistry, 2016, 40, 2637-2643.	2.8	4
62	Surfactant-free aqueous synthesis of novel Ba₃Gd₂F₁₂:Ln³⁺ nanocrystals with luminescence properties. CrystEngComm, 2018, 20, 7301-7307.	2.6	4
63	A novel synthesis of YVO4:Ln3+ (Ln = Eu, Sm, and Dy) porous/hollow submicro-ellipsoids and their luminescence properties. CrystEngComm, 2020, 22, 3340-3346.	2.6	4
64	Tysonite type Gd1â^'yCayF3â^'y solid solution: hydrothermal synthesis and luminescence properties. CrystEngComm, 2013, 15, 9930.	2.6	3
65	A solid-solution modulation strategy in trivalent bismuth-doped gallate phosphors for single substrate tunable emission. Dalton Transactions, 2021, 50, 12592-12606.	3.3	3
66	Enhanced thermostability of Eu3+ ions photoluminescence by multi-level electron traps with various temperature responses. Materials Today Chemistry, 2022, 24, 100881.	3.5	1