Baojiu Chen

List of Publications by Year
in descending order

98 papers	3,270 citations	147801 31 h-index	155660 55 g-index
98 all docs	98 docs citations	98 times ranked	2407 citing authors

#	Article	IF	Citations
1	Optical transition, electron-phonon coupling and fluorescent quenching of La2(MoO4)3:Eu3+ phosphor. Journal of Applied Physics, 2011, 109, .	2.5	242
2	Excitation pathway and temperature dependent luminescence in color tunable Ba5Gd8Zn4O21:Eu3+ phosphors. Journal of Materials Chemistry C, 2013, 1, 2338.	5.5	224
3	Size-dependent upconversion luminescence and temperature sensing behavior of spherical Gd₂O₃:Yb³⁺/Er³⁺ phosphor. RSC Advances, 2015, 5, 14123-14128.	3.6	162
4	Self-assembled 3D flower-shaped NaY(WO4)2:Eu3+ microarchitectures: Microwave-assisted hydrothermal synthesis, growth mechanism and luminescent properties. CrystEngComm, 2012, 14, 1760.	2.6	156
5	A universal approach for calculating the Juddâ€“Ofelt parameters of RE³⁺ in powdered phosphors and its application for the Î²-NaYF₄:Er³⁺/Yb³⁺ phosphor derived from auto-combustion-assisted fluoridation. Physical Chemistry Chemical Physics, 2018, 20, 15876-15883.	2.8	144
6	White light generation from Dy3+-doped ZnOâ€“B2O3â€“P2O5 glasses. Journal of Applied Physics, 2009, 106, .	2.5	121
7	Microwave-assisted hydrothermal synthesis and temperature sensing application of Er3+/Yb3+ doped NaY(WO4)2 microstructures. Journal of Colloid and Interface Science, 2014, 420, 27-34.	9.4	113
8	NaYF_4:Sm^3+/Yb^3+@NaYF_4:Er^3+/Yb^3+ core-shell structured nanocalorifier with optical temperature probe. Optics Express, 2017, 25, 16047.	3.4	97
9	Optical Transition, Excitation State Absorption, and Energy Transfer Study of Er3+, Nd3+ Single-Doped, and Er3+/Nd3+ Codoped Tellurite Glasses for Mid-Infrared Laser Applications. Journal of the American Ceramic Society, 2011, 94, 1766-1772.	3.8	88
10	Greenishâ€Yellow Emission from Dy³⁺â€Doped Y₂O₃ Nanophosphors. Journal of the American Ceramic Society, 2010, 93, 494-499.	3.8	87
11	Synthesis and luminescent properties of spindle-like CaWO4:Sm3+ phosphors. Materials Research Bulletin, 2012, 47, 59-62.	5.2	86
12	Concentration effect and temperature quenching of upconversion luminescence in BaGd2ZnO5:Er3+/Yb3+ phosphor. Journal of Rare Earths, 2015, 33, 686-692.	4.8	84
13	Rod-shaped NaY(MoO4)2:Sm3+/Yb3+ nanoheaters for photothermal conversion: Influence of doping concentration and excitation power density. Sensors and Actuators B: Chemical, 2016, 234, 286-293.	7.8	84
14	Size-dependent excitation spectra and energy transfer in Tb3+-doped Y2O3 nanocrystalline. Journal of Applied Physics, 2007, 102, .	2.5	80
15	Excited state absorption cross sections of 4I13/2 of Er3+ in ZBLAN. Optical Materials, 2009, 31, 1658-1662.	3.6	78
16	Fluorescent and chromatic properties of visible-emitting phosphor KLa(MoO4)2:Sm3+. Journal of Alloys and Compounds, 2013, 559, 123-128.	5.5	69
17	Temperature sensing and optical heating in Er³⁺single-doped and Er³⁺/Yb³⁺codoped NaY(WO₄)₂particles. RSC Advances, 2014, 4, 47556-47563.	3.6	68
18	Juddâ€“Ofelt analysis of spectroscopic properties of Tm3+, Ho3+ doped GdVO4 crystals. Optical Materials, 2007, 29, 1159-1165.	3.6	54

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19	Fluorescence decay route of optical transition calculation for trivalent rare earth ions and its application for Er³⁺-doped NaYF₄ phosphor. Physical Chemistry Chemical Physics, 2020, 22, 25177-25183.	2.8	54
20	Influence of Er³⁺ concentration and Ln³⁺ on the Juddâ€"Ofelt parameters in LnOCl (Ln = Y, La, Gd) phosphors. Physical Chemistry Chemical Physics, 2020, 22, 7844-7852.	2.8	51
21	Enhanced deep-red emission from Mn⁴⁺/Mg²⁺co-doped CaGdAlO₄phosphors for plant cultivation. Dalton Transactions, 2019, 48, 2455-2466.	3.3	50
22	Paper-based upconversion fluorescence resonance energy transfer biosensor for sensitive detection of multiple cancer biomarkers. Scientific Reports, 2016, 6, 23406.	3.3	45
23	Blueâ€"Greenâ€"Yellow Color-Tunable Luminescence of Ce³⁺-, Tb³⁺-, and Mn²⁺-Codoped Sr₃YNa(PO₄)₃F via Efficient Energy Transfer. Inorganic Chemistry, 2019, 58, 4500-4507.	4.0	41
24	Multicolour emission from thermally stable Tb3+/Eu3+ co-doped CaLa4Si3O13 phosphors for single-component w-LEDs application. Journal of Alloys and Compounds, 2019, 809, 151836.	5.5	38
25	Synthesis and efficient near-infrared quantum cutting of Pr3+/Yb3+ co-doped LiYF4 single crystals. Journal of Applied Physics, 2012, 112, .	2.5	37
26	Ionic liquid-assisted hydrothermal synthesis of dendrite-like NaY(MoO4)2:Tb3+ phosphor. Physica B: Condensed Matter, 2012, 407, 2556-2559.	2.7	36
27	Concentration-dependent spectroscopic properties and temperature sensing of YNbO₄:Er³⁺ phosphors. RSC Advances, 2017, 7, 23751-23758.	3.6	36
28	Dually functioned core-shell NaYF4:Er3+/Yb3+@NaYF4:Tm3+/Yb3+ nanoparticles as nano-calorifiers and nano-thermometers for advanced photothermal therapy. Scientific Reports, 2017, 7, 11849.	3.3	36
29	Improved photoluminescence quantum yield of CsPbBr₃ quantum dots glass ceramics. Journal of the American Ceramic Society, 2020, 103, 5028-5035.	3.8	36
30	Optical transition properties, internal quantum efficiencies, and temperature sensing of Er³⁺ doped BaGd₂O₄ phosphor with low maximum phonon energy. Journal of the American Ceramic Society, 2022, 105, 3353-3363.	3.8	34
31	Lanthanide dopant-induced phase transition and luminescent enhancement of EuF3 nanocrystals. CrystEngComm, 2012, 14, 8110.	2.6	31
32	Combustion Synthesis and Luminescent Properties of Nano and Submicrometer-Size Gd2O3:Dy3+ Phosphors for White LEDs. International Journal of Applied Ceramic Technology, 2011, 8, 709-717.	2.1	28
33	Ratiometric temperature sensing behavior of dual-emitting Ce3+/Tb3+ co-doped Na5Y9F32 single crystal with high relative sensitivity. Journal of Alloys and Compounds, 2021, 873, 159790.	5.5	27
34	Examination of Judd-Ofelt calculation and temperature self-reading for Tm3+ and Tm3+/Yb3+ doped LiYF4 single crystals. Journal of Luminescence, 2018, 198, 77-83.	3.1	26
35	NIR Downconversion and Energy Transfer Mechanisms in Tb³⁺/Yb³⁺ Codoped Na₅Lu₉F₃₂ Single Crystals. Inorganic Chemistry, 2018, 57, 7792-7796.	4.0	26
36	Optical transition and luminescence properties of Sm³⁺â€doped YNbO₄ powder phosphors. Journal of the American Ceramic Society, 2020, 103, 1037-1045.	3.8	25

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37	Color-tunable phosphor of Sr₃YNa(PO₄)₃F:Tb³⁺<i>via</i> interionic cross-relaxation energy transfer. RSC Advances, 2018, 8, 25378-25386.	3.6	24
38	Highly thermally stable Dy3+/Sm3+ co-doped Na5Y9F32 single crystals for warm white LED. Journal of Physics and Chemistry of Solids, 2021, 158, 110240.	4.0	24
39	Determination of Judd-Ofelt parameters for Eu3+-doped alkali borate glasses. Materials Research Bulletin, 2019, 120, 110590.	5.2	23
40	Highly efficient up-conversion luminescence in Er3+/Yb3+ co-doped Na5Lu9F32 single crystals by vertical Bridgman method. Scientific Reports, 2017, 7, 8751.	3.3	22
41	Excellent exciton luminescence of CsPbI3 red quantum dots in borate glass. Journal of Non-Crystalline Solids, 2020, 541, 120066.	3.1	21
42	Effects of Bi3+ on down-/up-conversion luminescence, temperature sensing and optical transition properties of Bi3+/Er3+ co-doped YNbO4 phosphors. Journal of Rare Earths, 2022, 40, 381-389.	4.8	20
43	Color-adjustable CsPbBr3-xIx quantum dots glasses for wide color gamut display. Journal of Non-Crystalline Solids, 2021, 551, 120432.	3.1	17
44	Structural design and evolution of a novel Bi³⁺-doped narrow-band emission blue phosphor with excellent photoluminescence performance for wide color gamut wLED. Journal of Materials Chemistry C, 2021, 9, 14777-14787.	5.5	17
45	Infrared spectral properties for Î±-NaYF4 single crystal of various Er3+doping concentrations. Optics and Laser Technology, 2016, 82, 157-162.	4.6	16
46	Enhanced mid-infrared emissions of Ho3+/Er3+ co-doped Na5Y9F32 single crystal by introduction of Pr3+ ions. Journal of Alloys and Compounds, 2020, 824, 153987.	5.5	16
47	Molten salt synthesis, energy transfer, and temperature quenching fluorescence of green-emitting Î²-Ca2P2O7:Tb3+ phosphors. Journal of Materials Science, 2015, 50, 6060-6065.	3.7	15
48	Ultralong well-aligned TiO2:Ln3+ (Lnâ€‰=â€‰Eu, Sm, or Er) fibres prepared by modified electrospinning and their temperature-dependent luminescence. Scientific Reports, 2017, 7, 44099.	3.3	15
49	Concentration effects of fluorescence quenching and optical transition properties of Dy3+ doped NaYF4 phosphor. Journal of Alloys and Compounds, 2022, 895, 162616.	5.5	15
50	Interionic cross relaxation and tunable color luminescence in KY3F10:Tb3+ nano/microcrystals synthesized by hydrothermal approach. Journal of Fluorine Chemistry, 2012, 144, 1-6.	1.7	14
51	Cooperative Down-Conversion Luminescence in $ hbox{Tb}^{3+}/ hbox{Yb}^{3+}$ Co-Doped $hbox{LiYF}_{4}$ Single Crystals. IEEE Photonics Journal, 2014, 6, 1-9.	2.0	14
52	Engineering Er³⁺-sensitized nanocrystals to enhance NIR II-responsive upconversion luminescence. Nanoscale, 2022, 14, 962-968.	5.6	14
53	Influence of microwave hydrothermal reaction factor on the morphology of NaY(MoO₄)₂ nano-/micro-structures and luminescence properties of NaY(MoO₄)₂:Tb³⁺. RSC Advances, 2015, 5, 56337-56347.	3.6	13
54	Cooperative Energy Transfer Up-/Down-Conversion Luminescence in Tb3+/Yb3+ Co-Doped Cubic Na5Lu9F32 Single Crystals by Gd3+ Co-Doping. Crystal Growth and Design, 2017, 17, 3163-3169.	3.0	13

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55	Pre-assessments of optical transition, gain performance and temperature sensing of Er3+ in NaLn(MoO4)2 (Lnâ€‰=â€‰Y, La, Gd and Lu) single crystals by using their powder-formed samples derived from traditional solid state reaction. Optics and Laser Technology, 2021, 140, 107012.	4.6	13
56	Thermal enhancement of the ²H_{11/2} â†’ ⁴I_{15/2} up-conversion luminescence of Er³⁺-doped K₂Yb(PO₄)(MoO₄) phosphors. Journal of Materials Chemistry C, 2021, 9, 12159-12167.	5.5	12
57	Silicaâ€Coated CaF₂:Eu³⁺ Nanoparticles Functionalized with Oxalic Acid for Bioâ€conjugation to BSA Proteins. Chinese Journal of Chemistry, 2010, 28, 921-927.	4.9	11
58	Concentration- and temperature-dependent fluorescent quenching and Juddâ€“Ofelt analysis of Eu3+ in NaLaTi2O6 phosphors. Journal of Materials Science, 2017, 52, 935-943.	3.7	11
59	Radiative transition properties of Yb3+ in Er3+/Yb3+ co-doped NaYF4 phosphor. Journal of Alloys and Compounds, 2020, 834, 155242.	5.5	11
60	Growth and downconversion luminescence of Ho³⁺/Yb³⁺ codoped Î±â€NaYF₄ single crystals by the Bridgman method using a KF flux. Crystal Research and Technology, 2015, 50, 574-579.	1.3	10
61	Reply to the â€ Comment on â€œA universal approach for calculating the Juddâ€“Ofelt parameters of RE³⁺ in powdered phosphors and its application for the Î²-NaYF₄:Er³⁺/Yb³⁺ phosphor derived from auto-combustion-assisted fluoridationâ€â€™ by D. Zhang, Q. Xu and Y. Zhang, <i>Phys. Chem. Chem. Phys.</i>, 2019, 21, DOI: 10.1039/C8CP07577H. Physical Chemistry Chemical Physics, 2019, 21, 10840-10845.	2.8	10
62	Control of white light emission via co-doping of Dy3+ and Tb3+ ions in LiLuF4 single crystals under UV excitation. Journal of Materials Science: Materials in Electronics, 2020, 31, 3405-3414.	2.2	10
63	White Light Emission From Tb3+/Sm3+Codoped LiYF4Single Crystal Excited by UV Light. IEEE Photonics Technology Letters, 2014, 26, 1485-1488.	2.5	9
64	Preparation and luminescent properties of one-dimensional YVO4:Eu nanocrystals. Journal of Materials Science: Materials in Electronics, 2016, 27, 2608-2613.	2.2	9
65	Efficient enhancement ofÂ~Â2.85ÂÎ¼m emission in Yb3+/Ho3+ co-doped Na5Y9F32 single crystal via Sm3+ deactivation. Infrared Physics and Technology, 2021, 116, 103765.	2.9	9
66	Luminescent properties of Eu³⁺-doped Î±-NaYF₄ single crystal under NUV-excitation. Journal of Modern Optics, 2017, 64, 164-169.	1.3	8
67	Tunable and high-color-rendering white light emissions in full visible spectral range in Ag-aggregates/Sm3+ co-doped germanate glass fluorophors. Ceramics International, 2022, 48, 22994-23001.	4.8	8
68	Growth and spectral properties of Er³⁺/Tm³⁺ coâ€doped LiYF₄ single crystal. Crystal Research and Technology, 2013, 48, 446-453.	1.3	7
69	Luminescence properties of Er3+/Nd3+ co-doped Na5Lu9F32 single crystals for 2.7ÂÎ¼m mid-infrared laser. Optical Materials, 2017, 72, 63-70.	3.6	7
70	Enhanced luminescence at 27â€‰â€‰Î¼m of Na_5Lu_9F_32 single crystals co-doped Er^3+/Pr^3+ grown by Bridgman method. Applied Optics, 2017, 56, 5786.	1.8	7
71	Efficiently Cooperative Energy Transfer Upâ€Conversion Luminescence in Tb³⁺ /Yb³⁺ Coâ€Doped Cubic Na₅Lu₉F₃₂ Single Crystals by Vertical Bridgman Method. Crystal Research and Technology, 2018, 53, 1700136.	1.3	7
72	Electrospinning preparation and upconversion luminescence of Y2Ti2O7:Tm/Yb nanofibers. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	7

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73	Enhanced photothermal conversion performances with ultraâ€broad plasmon absorption of Au in Au/Sm 2 O 3 composites. Journal of the American Ceramic Society, 2020, 103, 4420-4428.	3.8	7
74	Full color white light, temperature selfâ€monitor, and thermochromatic effect of Cu⁺ and Tm³⁺ codoped germanate glasses. Journal of the American Ceramic Society, 2021, 104, 350-360.	3.8	7
75	Photoluminescence, optical transition properties and temperature-induced shift of charge transfer band and temperature sensing property of GdNbTiO6: Sm3+ phosphors. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119951.	3.9	7
76	Size-dependent energy transfer and spontaneous radiative transition properties of Dy3+ ions in the GdVO4 phosphors. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	6
77	Infrared spectroscopic characterization of Na₅Lu₉F₃₂ single crystals doped with various Er³⁺ concentrations. Journal of Modern Optics, 2017, 64, 2238-2244.	1.3	6
78	Broadband emission and flat optical gain glass containing Ag aggregates for tunable laser. Journal of the American Ceramic Society, 2019, 102, 1150-1156.	3.8	6
79	Nanosized-MnCo2O4-embedded 1D carbon nanofibres for supercapacitor with promising electrochemical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 13588-13596.	2.2	6
80	Long-wavelength pass filter using green CsPbBr3 quantum dots glass. Optics and Laser Technology, 2021, 138, 106857.	4.6	6
81	Blue and green light exciton emission of chloro-brominated perovskite quantum dots glasses. Optical Materials, 2021, 122, 111654.	3.6	6
82	Spectroscopic Study on Eu³⁺ Doped Borate Glasses Containing Ag Nanoparticles and Ag Aggregates. Journal of Nanoscience and Nanotechnology, 2015, 15, 373-377.	0.9	5
83	A New MOS Capacitance Correction Method Based on Five-Element Model by Combining Double-Frequency <inline-formula> <tex-math notation="LaTeX">${C}-{V}$ </tex-math> </inline-formula> and <inline-formula> <tex-math notation="LaTeX">I </tex-math> </inline-formula>â€“<inline-formula> <tex-math notation="LaTeX">V </tex-math> </inline-formula> Measurements. IEEE Electron Device Letters, 2016, 37, 1328-1331.	3.9	5
84	Theoretical analysis on quenching mechanisms for Lu2O3: Eu3+ nanospheres. Journal of Materials Science: Materials in Electronics, 2017, 28, 18015-18021.	2.2	5
85	808Ânm triggered multifunctional UCNPs@PDA nanocomposites for temperature sensing and photothermal conversion. Journal of Materials Science: Materials in Electronics, 2022, 33, 6563-6575.	2.2	4
86	Spectral Characteristics of Mn²⁺ Doped Na₅Lu₉F₃₂ Single Crystals. Physica Status Solidi (B): Basic Research, 2018, 255, 1800096.	1.5	3
87	Wide gamut white LED device using green CsPbBr3 quantum dots glass and red K2SiF6: Mn4+ phosphor. Optik, 2021, 248, 168156.	2.9	3
88	Net Optical Gain Coefficients of Cu+ and Tm3+ Single-Doped and Co-Doped Germanate Glasses. Materials, 2022, 15, 2134.	2.9	3
89	Fabrication of aligned Eu(TTA)3phen/PS fiber bundles from high molecular weight polymer solution by electrospinning. Russian Journal of Physical Chemistry A, 2015, 89, 2455-2460.	0.6	2
90	Enhanced UC red emission in Ce3+/Yb3+/Ho3+ tri-doped Na5Lu9F32 single crystals. Journal of Materials Science: Materials in Electronics, 2019, 30, 10814-10820.	2.2	2

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91	Effects of radiation transition rate and energy level splitting on temperature sensing properties of 4S3/2 and 2H11/2 energy levels for Er3+. Optik, 2020, 223, 165401.	2.9	2
92	The effects of Er³⁺ ion concentration on 2.0-Î¼m emission performance in Ho³⁺/Tm³⁺ co-doped Na₅Y₉F₃₂ single crystal under 800-nm excitation*. Chinese Physics B, 2021, 30, 017801.	1.4	2
93	Frequency Dispersion Analysis of Parasitic Parameters in Thin Dielectric MOS Capacitor. Journal of Nanoscience and Nanotechnology, 2018, 18, 7473-7478.	0.9	1
94	Well-aligned TiO2 fibers and N-doped TiO2 fibers for efficient photocatalytic degradation of nitrobenzene in wastewater. Journal of Materials Science: Materials in Electronics, 2022, 33, 4145-4155.	2.2	1
95	Quantum efficiency and surface passivation effect of nanocrystalline Y2O3:Eu3+. Journal of Nanoscience and Nanotechnology, 2008, 8, 1165-9.	0.9	1
96	Growth of KAlF₄ and Na₅Al₃F₁₄ Aluminum Fluoride Single Crystals by Bridgman Method. Crystal Research and Technology, 2022, 57, .	1.3	1
97	Intense 2.0ÂÂµm emission from Ho3+/Yb3+ co-doped Na5Lu9F32 single crystal excited by 980Ânm. Journal of Materials Science: Materials in Electronics, 2018, 29, 7987-7992.	2.2	0
98	Excellent long-wavelength pass filters of CsPbBr3 and CsPb(Cl/Br)3 quantum dots glasses by Cu2+ quenching strategy. Journal of the Optical Society of America B: Optical Physics, 0, , .	2.1	0