

Bining Tian

List of Publications by Year in descending order

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35
papers

2,201
citations

304743

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times ranked

2764
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in black phosphorus/carbon hybrid composites: from improved stability to applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4647-4676.	10.3	39
2	Stability of Perovskite Light Sources: Status and Challenges. <i>Advanced Optical Materials</i> , 2020, 8, 1902012.	7.3	54
3	Violet-light-excitable super-narrow band green emitting phosphor for high-quality white LEDs. <i>Journal of Luminescence</i> , 2020, 225, 117318.	3.1	7
4	Carrier lifetime exceeding 81 ns in single crystalline perovskite nanowires enable large on-off ratio photodetectors. <i>Organic Electronics</i> , 2020, 83, 105744.	2.6	7
5	High detectivity photodetectors based on perovskite nanowires with suppressed surface defects. <i>Photonics Research</i> , 2020, 8, 1862.	7.0	23
6	Energy Transfer Networks within Upconverting Nanoparticles Are Complex Systems with Collective, Robust, and History-Dependent Dynamics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2678-2689.	3.1	57
7	Bright sub-20-nm cathodoluminescent nanoprobe for electron microscopy. <i>Nature Nanotechnology</i> , 2019, 14, 420-425.	31.5	36
8	A 25 micron-thin microscope for imaging upconverting nanoparticles with NIR-I and NIR-II illumination. <i>Theranostics</i> , 2019, 9, 8239-8252.	10.0	13
9	Enrichment of molecular antenna triplets amplifies upconverting nanoparticle emission. <i>Nature Photonics</i> , 2018, 12, 402-407.	31.4	200
10	UV-driven overall water splitting using unsupported gold nanoparticles as photocatalysts. <i>Chemical Communications</i> , 2018, 54, 1845-1848.	4.1	32
11	Facile bottom-up synthesis of partially oxidized black phosphorus nanosheets as metal-free photocatalyst for hydrogen evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4345-4350.	7.1	207
12	Facile integration of low-cost black phosphorus in solution-processed organic solar cells with improved fill factor and device efficiency. <i>Nano Energy</i> , 2018, 53, 345-353.	16.0	39
13	Photostable and efficient upconverting nanocrystal-based chemical sensors. <i>Optical Materials</i> , 2018, 84, 345-353.	3.6	19
14	Continuous-wave upconverting nanoparticle microlasers. <i>Nature Nanotechnology</i> , 2018, 13, 572-577.	31.5	188
15	Morphology-tailored optical thermometric sensitivity in NaCdF ₄ :Yb ³⁺ /Er ³⁺ nanophosphors. <i>Materials Research Express</i> , 2017, 4, 106203.	1.6	10
16	Improved upconversion luminescence and temperature sensing in Mo ⁶⁺ -doped LuNbO ₄ :Er ³⁺ phosphor under 1550 nm excitation. <i>Materials Research Express</i> , 2016, 3, 116201.	1.6	14
17	Molten salt synthesis, energy transfer, and temperature quenching fluorescence of green-emitting β -Ca ₂ P ₂ O ₇ :Tb ³⁺ phosphors. <i>Journal of Materials Science</i> , 2015, 50, 6060-6065.	3.7	15
18	Concentration Quenching and Energy Transfer in Tm ³⁺ and Dy ³⁺ Single- and Double-Doped Nano-Sized GdVO ₄ Phosphors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 281-289.	0.9	8

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19	Size-dependent upconversion luminescence and temperature sensing behavior of spherical $\text{Gd}_2\text{O}_3:\text{Yb}^{3+}/\text{Er}^{3+}$ phosphor. <i>RSC Advances</i> , 2015, 5, 14123-14128.	3.6	162
20	Microwave-assisted hydrothermal synthesis and temperature sensing application of $\text{Er}^{3+}/\text{Yb}^{3+}$ doped $\text{NaY}(\text{WO}_4)_2$ microstructures. <i>Journal of Colloid and Interface Science</i> , 2014, 420, 27-34.	9.4	113
21	Ionic liquid-assisted hydrothermal synthesis and excitation wavelength-dependent luminescence of $\text{YBO}_3:\text{Eu}^{3+}$ nano-/micro-crystals. <i>Journal of Alloys and Compounds</i> , 2014, 590, 61-67.	5.5	23
22	Temperature sensing and optical heating in Er^{3+} single-doped and $\text{Er}^{3+}/\text{Yb}^{3+}$ codoped $\text{NaY}(\text{WO}_4)_2$ particles. <i>RSC Advances</i> , 2014, 4, 47556-47563.	3.6	68
23	Excellent optical thermometry based on single-color fluorescence in spherical NaEuF_4 phosphor. <i>Optics Letters</i> , 2014, 39, 4164.	3.3	64
24	Template-free synthesis, tunable luminescent colors and energy transfer of sesame-like $\text{TbF}_3:\text{Eu}^{3+}$ microcrystals. <i>Materials Research Bulletin</i> , 2014, 53, 38-41.	5.2	2
25	Morphological tuning and enhanced luminescence of NaEuF_4 nano-/submicro-crystals. <i>Applied Surface Science</i> , 2014, 313, 504-511.	6.1	11
26	Size-dependent energy transfer and spontaneous radiative transition properties of Dy^{3+} ions in the GdVO_4 phosphors. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	6
27	Hydrothermal synthesis and tunable luminescence of persimmon-like sodium lanthanum tungstate: Tb^{3+} , Eu^{3+} hierarchical microarchitectures. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 44-52.	9.4	40
28	Excitation pathway and temperature dependent luminescence in color tunable $\text{Ba}_5\text{Gd}_8\text{Zn}_4\text{O}_{21}:\text{Eu}^{3+}$ phosphors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2338.	5.5	224
29	Intense red upconversion emission and temperature sensing in $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped $\text{Ba}_5\text{Gd}_8\text{Zn}_4\text{O}_{21}$ phosphor. <i>Materials Express</i> , 2013, 3, 241-246.	0.5	22
30	Concentration and temperature quenching mechanisms of Dy^{3+} luminescence in $\text{BaGd}_2\text{ZnO}_5$ phosphors. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1314-1319.	4.0	47
31	Solvothermal synthesis and tunable luminescence of Tb^{3+} , Eu^{3+} codoped YF_3 nano- and micro-crystals with uniform morphologies. <i>Journal of Solid State Chemistry</i> , 2012, 196, 187-196.	2.9	22
32	Self-assembled 3D flower-shaped $\text{NaY}(\text{WO}_4)_2:\text{Eu}^{3+}$ microarchitectures: Microwave-assisted hydrothermal synthesis, growth mechanism and luminescent properties. <i>CrystEngComm</i> , 2012, 14, 1760.	2.6	156
33	Visible quantum cutting in $\text{BaGd}_2\text{ZnO}_5:\text{Eu}^{3+}$ phosphor. <i>Ceramics International</i> , 2012, 38, 3537-3540.	4.8	25
34	Ionic liquid-assisted hydrothermal synthesis of dendrite-like $\text{NaY}(\text{MoO}_4)_2:\text{Tb}^{3+}$ phosphor. <i>Physica B: Condensed Matter</i> , 2012, 407, 2556-2559.	2.7	36
35	Concentration-dependent luminescence and energy transfer of flower-like $\text{Y}_2(\text{MoO}_4)_3:\text{Dy}^{3+}$ phosphor. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6096-6101.	5.5	212