

# Bining Tian

## List of Publications by Year in descending order

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35  
papers

2,201  
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304743

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2764  
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#	ARTICLE	IF	CITATIONS
1	Excitation pathway and temperature dependent luminescence in color tunable Ba <sub>5</sub> Gd <sub>8</sub> Zn <sub>4</sub> O <sub>21</sub> :Eu <sup>3+</sup> phosphors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2338.	5.5	224
2	Concentration-dependent luminescence and energy transfer of flower-like Y <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> :Dy <sup>3+</sup> phosphor. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6096-6101.	5.5	212
3	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
4	Enrichment of molecular antenna triplets amplifies upconverting nanoparticle emission. <i>Nature Photonics</i> , 2018, 12, 402-407.	31.4	200
5	Continuous-wave upconverting nanoparticle microlasers. <i>Nature Nanotechnology</i> , 2018, 13, 572-577.	31.5	188
6	Size-dependent upconversion luminescence and temperature sensing behavior of spherical Gd <sub>2</sub> O <sub>3</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> phosphor. <i>RSC Advances</i> , 2015, 5, 14123-14128.	3.6	162
7	Self-assembled 3D flower-shaped NaY(WO <sub>4</sub> ) <sub>2</sub> :Eu <sup>3+</sup> microarchitectures: Microwave-assisted hydrothermal synthesis, growth mechanism and luminescent properties. <i>CrystEngComm</i> , 2012, 14, 1760.	2.6	156
8	Microwave-assisted hydrothermal synthesis and temperature sensing application of Er <sup>3+</sup> /Yb <sup>3+</sup> doped NaY(WO <sub>4</sub> ) <sub>2</sub> microstructures. <i>Journal of Colloid and Interface Science</i> , 2014, 420, 27-34.	9.4	113
9	Temperature sensing and optical heating in Er <sup>3+</sup> single-doped and Er <sup>3+</sup> /Yb <sup>3+</sup> codoped NaY(WO <sub>4</sub> ) <sub>2</sub> particles. <i>RSC Advances</i> , 2014, 4, 47556-47563.	3.6	68
10	Excellent optical thermometry based on single-color fluorescence in spherical NaEuF <sub>4</sub> phosphor. <i>Optics Letters</i> , 2014, 39, 4164.	3.3	64
11	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
12	Stability of Perovskite Light Sources: Status and Challenges. <i>Advanced Optical Materials</i> , 2020, 8, 1902012.	7.3	54
13	Concentration and temperature quenching mechanisms of Dy <sup>3+</sup> luminescence in BaGd <sub>2</sub> ZnO <sub>5</sub> phosphors. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1314-1319.	4.0	47
14	Hydrothermal synthesis and tunable luminescence of persimmon-like sodium lanthanum tungstate:Tb <sup>3+</sup> , Eu <sup>3+</sup> hierarchical microarchitectures. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 44-52.	9.4	40
15	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
16	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
17	Ionic liquid-assisted hydrothermal synthesis of dendrite-like NaY(MoO <sub>4</sub> ) <sub>2</sub> :Tb <sup>3+</sup> phosphor. <i>Physica B: Condensed Matter</i> , 2012, 407, 2556-2559.	2.7	36
18	Bright sub-20-nm cathodoluminescent nanoprobe for electron microscopy. <i>Nature Nanotechnology</i> , 2019, 14, 420-425.	31.5	36

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19	UV-driven overall water splitting using unsupported gold nanoparticles as photocatalysts. <i>Chemical Communications</i> , 2018, 54, 1845-1848.	4.1	32
20	Visible quantum cutting in BaGd <sub>2</sub> ZnO <sub>5</sub> :Eu <sup>3+</sup> phosphor. <i>Ceramics International</i> , 2012, 38, 3537-3540.	4.8	25
21	Ionic liquid-assisted hydrothermal synthesis and excitation wavelength-dependent luminescence of YBO <sub>3</sub> :Eu <sup>3+</sup> nano-/micro-crystals. <i>Journal of Alloys and Compounds</i> , 2014, 590, 61-67.	5.5	23
22	High detectivity photodetectors based on perovskite nanowires with suppressed surface defects. <i>Photonics Research</i> , 2020, 8, 1862.	7.0	23
23	Solvothermal synthesis and tunable luminescence of Tb <sup>3+</sup> , Eu <sup>3+</sup> codoped YF <sub>3</sub> nano- and micro-crystals with uniform morphologies. <i>Journal of Solid State Chemistry</i> , 2012, 196, 187-196.	2.9	22
24	Intense red upconversion emission and temperature sensing in Er <sup>3+</sup> /Yb <sup>3+</sup> co-doped Ba <sub>5</sub> Gd <sub>8</sub> Zn <sub>4</sub> O <sub>21</sub> :0.5 phosphor. <i>Materials Express</i> , 2013, 3, 241-246.	0.5	22
25	Photostable and efficient upconverting nanocrystal-based chemical sensors. <i>Optical Materials</i> , 2018, 84, 345-353.	3.6	19
26	Molten salt synthesis, energy transfer, and temperature quenching fluorescence of green-emitting $\beta$ -Ca <sub>2</sub> P <sub>2</sub> O <sub>7</sub> :Tb <sup>3+</sup> phosphors. <i>Journal of Materials Science</i> , 2015, 50, 6060-6065.	3.7	15
27	Improved upconversion luminescence and temperature sensing in Mo <sup>6+</sup> -doped LuNbO <sub>4</sub> :Er <sup>3+</sup> phosphor under 1550 nm excitation. <i>Materials Research Express</i> , 2016, 3, 116201.	1.6	14
28	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
29	Morphological tuning and enhanced luminescence of NaEuF <sub>4</sub> nano-/submicro-crystals. <i>Applied Surface Science</i> , 2014, 313, 504-511.	6.1	11
30	Morphology-tailored optical thermometric sensitivity in NaGdF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> nanophosphors. <i>Materials Research Express</i> , 2017, 4, 106203.	1.6	10
31	Concentration Quenching and Energy Transfer in Tm <sup>3+</sup> and Dy <sup>3+</sup> Single- and Double-Doped Nano-Sized GdVO <sub>4</sub> Phosphors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 281-289.	0.9	8
32	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
33	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
34	Size-dependent energy transfer and spontaneous radiative transition properties of Dy <sup>3+</sup> ions in the GdVO <sub>4</sub> phosphors. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	6
35	Template-free synthesis, tunable luminescent colors and energy transfer of sesame-like TbF <sub>3</sub> :Eu <sup>3+</sup> microcrystals. <i>Materials Research Bulletin</i> , 2014, 53, 38-41.	5.2	2