

# Peifen Zhu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

2,073

citations

26

h-index

42

g-index

86

ext. papers

2,355

ext. citations

4.5

avg, IF

5.07

L-index

#	Paper	IF	Citations
82	Luminescent lanthanide single atom composite materials: Tunable full-color single phosphor and applications in white LEDs. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132782	14.7	5
81	Scalable synthesis of highly luminescent and stable thiocyanate based CsPbX <sub>3</sub> perovskite nanocrystals for efficient white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 860, 158501	5.7	6
80	Erbium Single Atom Composite Photocatalysts for Reduction of CO under Visible Light: CO Molecular Activation and 4f Levels as an Electron Transport Bridge. <i>Small</i> , <b>2021</b> , 17, e2102089	11	10
79	Near Unity PLQY and High Stability of Barium Thiocyanate Based All-Inorganic Perovskites and Their Applications in White Light-Emitting Diodes. <i>Photonics</i> , <b>2021</b> , 8, 209	2.2	5
78	Dual Functions of CO <sub>2</sub> Molecular Activation and 4f Levels as Electron Transport Bridge in Dysprosium Single Atom Composite Photocatalysts with Enhanced Visible-Light Photoactivities. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104976	15.6	10
77	Enhanced luminescence through interface energy transfer in hierarchical heterogeneous nanocomposites and application in white LEDs. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 204-213	9.3	1
76	Confinement and antenna effect for ultrasmall Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanocrystals supported by MOF with enhanced near-UV light absorption thereby enhanced luminescence and excellently multifunctional applications. <i>Nano Research</i> , <b>2021</b> , 14, 720-729	10	11
75	Dual functions of CO <sub>2</sub> molecular activation and 4f levels as electron transport bridges in erbium single atom composite photocatalysts therefore enhancing visible-light photoactivities. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 15820-15826	13	6
74	Substitution of Pb with Mn <sup>2+</sup> /Nd <sup>3+</sup> to improve the luminescence and thermal stability of Cs <sub>4</sub> PbBr <sub>6</sub> . <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130186	14.7	4
73	Dual-Mode Light-Emitting Lanthanide Metal-Organic Frameworks with High Water and Thermal Stability and Their Application in White LEDs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18934-18943	8.5	36
72	UV Resin Enhanced Stability of Metal Halide Perovskite Nanocrystals for White Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 35-40	4	10
71	Enhanced Visible-Light Photoactivities of Perovskite-Type LaFeO <sub>3</sub> Nanocrystals by Simultaneously Doping Er <sup>3+</sup> and Coupling MgO for CO <sub>2</sub> Reduction. <i>ChemCatChem</i> , <b>2020</b> , 12, 623-630	5.2	7
70	Co-MOF as an electron donor for promoting visible-light photoactivities of g-C <sub>3</sub> N <sub>4</sub> nanosheets for CO <sub>2</sub> reduction. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 514-523	11.3	47
69	Multifunctional NaLnF@MOF-Ln Nanocomposites with Dual-Mode Luminescence for Drug Delivery and Cell Imaging. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	25
68	Synthesis of CsPbBr <sub>3</sub> and Transformation into Cs <sub>4</sub> PbBr <sub>6</sub> Crystals for White Light Emission with High CRI and Tunable CCT. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 12023-12028	3.8	17
67	Tetradic phosphor white light with variable CCT and superlative CRI through organolead halide perovskite nanocrystals. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1791-1798	5.1	24
66	Mg <sup>2+</sup> -Alloyed All-Inorganic Halide Perovskites for White Light-Emitting Diodes by 3D-Printing Method. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900916	8.1	37

65	Blue-red color-tunable all-inorganic bromide mixed-halide perovskite nanocrystals using the saponification technique for white-light-emitting diodes. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 1616	1.7	7
64	Design rules for white light emitters with high light extraction efficiency. <i>Optics Express</i> , <b>2019</b> , 27, A1297-A1307	3.5	1307
63	Spectral optimization of white light from hybrid metal halide perovskites. <i>OSA Continuum</i> , <b>2019</b> , 2, 1880-1894	1.4	19
62	Design of circadian white light-emitting diodes with tunable color temperature and nearly perfect color rendition. <i>OSA Continuum</i> , <b>2019</b> , 2, 2413	1.4	13
61	Zn-Alloyed All-Inorganic Halide Perovskite-Based White Light-Emitting Diodes with Superior Color Quality. <i>Scientific Reports</i> , <b>2019</b> , 9, 18636	4.9	30
60	Saponification Precipitation Method for CsPbBr <sub>3</sub> Nanocrystals with Blue-Green Tunable Emission. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1406-1412	3.8	19
59	Optical Properties of Eu <sup>3+</sup> -Doped Y <sub>2</sub> O <sub>3</sub> Nanotubes and Nanosheets Synthesized by Hydrothermal Method. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-10	1.8	6
58	UV-Green Emission from Organolead Bromide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 15041-15046	3.8	19
57	Red photoluminescent Eu-doped YO nanospheres for LED-phosphor applications: Synthesis and characterization. <i>Optics Express</i> , <b>2018</b> , 26, 34820-34829	3.3	20
56	Effect of Pressure on 4-Toluenesulfonyl Azide Studied by Raman Scattering and Synchrotron X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 1032-1039	3.8	12
55	Effect of pressure on sodium azide studied by spectroscopic method. <i>Journal of Physics Communications</i> , <b>2017</b> , 1, 025002	1.2	4
54	High-pressure spectroscopic study of silver azide. <i>RSC Advances</i> , <b>2016</b> , 6, 82270-82276	3.7	8
53	High-Pressure Raman and Infrared Spectroscopic Studies of Cesium Azide. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27013-27018	3.8	3
52	Pressure-Induced Phase Transitions and Amorphization of 4-Carboxybenzenesulfonyl Azide. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25709-25716	3.8	3
51	High pressure studies of trimethyltin azide by Raman scattering, IR absorption, and synchrotron X-ray diffraction. <i>RSC Advances</i> , <b>2016</b> , 6, 98921-98926	3.7	9
50	High-Pressure Studies of 4-Acetamidobenzenesulfonyl Azide: Combined Raman Scattering, IR Absorption, and Synchrotron X-ray Diffraction Measurements. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 12015-12022	3.4	8
49	Pressure-Induced Amorphization of Strontium Azide. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 12423-12428	3.4	15
48	High pressure studies of Ni <sub>3</sub> [(C <sub>2</sub> H <sub>5</sub> N <sub>5</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>6</sub> ](NO <sub>3</sub> ) <sub>6</sub> ·1.5H <sub>2</sub> O by Raman scattering, IR absorption, and synchrotron X-ray diffraction. <i>RSC Advances</i> , <b>2016</b> , 6, 65031-65037	3.7	4

47	Frustrated total internal reflection in organic light-emitting diodes employing sphere cavity embedded in polystyrene. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 025403	1.7	12
46	Narrow-linewidth red-emission Eu <sup>3+</sup> -doped TiO <sub>2</sub> spheres for light-emitting diodes. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 124305	2.5	26
45	Resonant cavity effect optimization of III-nitride thin-film flip-chip light-emitting diodes with microsphere arrays. <i>Applied Optics</i> , <b>2015</b> , 54, 6305-12	0.2	24
44	Effect of packing density and packing geometry on light extraction of III-nitride light-emitting diodes with microsphere arrays. <i>Photonics Research</i> , <b>2015</b> , 3, 184	6	28
43	Light extraction efficiency enhancement of top-emitting organic light-emitting diodes employing low-Q whispering gallery modes in spheres. <i>Materials Research Express</i> , <b>2015</b> , 2, 096202	1.7	5
42	Aspect ratio engineering of microlens arrays in thin-film flip-chip light-emitting diodes. <i>Applied Optics</i> , <b>2015</b> , 54, 10299-303	0.2	13
41	Photoluminescence studies of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> under high pressure. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 023502	2.5	32
40	Photoluminescence properties and energy transfer in Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanophosphors. <i>Chinese Physics B</i> , <b>2014</b> , 23, 057801	1.2	20
39	. <i>Journal of Display Technology</i> , <b>2013</b> , 9, 324-332		79
38	FDTD Analysis on Extraction Efficiency of GaN Light-Emitting Diodes With Microsphere Arrays. <i>Journal of Display Technology</i> , <b>2013</b> , 9, 317-323		87
37	P-110: Light extraction of Phosphorescent OLEDs by Defective Hexagonal-Close-Packed Array. <i>Digest of Technical Papers SID International Symposium</i> , <b>2012</b> , 43, 1474-1476	0.5	
36	FDTD modeling of InGaN-based light-emitting diodes with microsphere arrays <b>2012</b> ,		1
35	Light Extraction: Light Extraction of Organic Light Emitting Diodes by Defective Hexagonal-Close-Packed Array (Adv. Funct. Mater. 16/2012). <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3453-3453	15.6	2
34	Light Extraction of Organic Light Emitting Diodes by Defective Hexagonal-Close-Packed Array. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3454-3459	15.6	145
33	Synthesis of ZnO nanosheets by microwave thermal vapor method. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 2065-9	1.3	8
32	Synthesis and luminescence properties of Er <sup>3+</sup> doped Y(OH) <sub>3</sub> , NH <sub>4</sub> Y <sub>3</sub> F <sub>10</sub> , and YF <sub>3</sub> nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 1728-32	1.3	0
31	Synthesis and upconversion luminescence of YF <sub>3</sub> :Yb <sup>3+</sup> Tm <sup>3+</sup> and TiO <sub>2</sub> -coated YF <sub>3</sub> :Yb <sup>3+</sup> , Tm <sup>3+</sup> microcrystals. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 2032-5	1.3	7
30	Large-scale synthesis and photoluminescence properties of aligned multicore SiC-SiO <sub>2</sub> nanocables. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 1964-8	1.3	3

29	Ultrastable structure and luminescence properties of Y <sub>2</sub> O <sub>3</sub> nanotubes. <i>Solid State Communications</i> , <b>2010</b> , 150, 1208-1212	1.6	26
28	Large-scale synthesis and photoluminescence properties of SiC networks. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 521-527	2.6	11
27	Enhanced ultraviolet upconversion in YF <sub>3</sub> :Yb <sup>3+</sup> /Tm <sup>3+</sup> nanocrystals. <i>Journal of Rare Earths</i> , <b>2009</b> , 27, 330-333	3.7	16
26	Synthesis and upconversion luminescence properties of NaYF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> microspheres. <i>Journal of Rare Earths</i> , <b>2009</b> , 27, 394-397	3.7	26
25	Synthesis and upconversion luminescence properties of YF <sub>3</sub> :Yb <sup>3+</sup> /Tm <sup>3+</sup> octahedral nanocrystals. <i>Journal of Fluorine Chemistry</i> , <b>2009</b> , 130, 158-161	2.1	24
24	Synthesis and Properties of SiC/SiO <sub>2</sub> Nanochain Heterojunctions by Microwave Method. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1431-1435	3.5	47
23	Controlled synthesis and luminescence properties from cubic to hexagonal NaYF <sub>4</sub> :Ln <sup>3+</sup> (Ln = Eu and Yb/Tm) microcrystals. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 475, 452-455	5.7	53
22	The improvement of thermal stability of BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> coated with MgO. <i>Materials Letters</i> , <b>2008</b> , 62, 784-786	3.3	37
21	La <sub>3</sub> PO <sub>7</sub> :Eu <sup>3+</sup> nanoparticles A novel red phosphor. <i>Materials Letters</i> , <b>2008</b> , 62, 3146-3148	3.3	8
20	Enhanced Photoluminescence of Water Soluble YVO <sub>4</sub> :Ln <sup>3+</sup> (Ln = Eu, Dy, Sm, and Ce) Nanocrystals by Ba <sup>2+</sup> Doping. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17042-17045	3.8	66
19	Synthesis, Growth Mechanism, and Tunable Upconversion Luminescence of Yb <sup>3+</sup> /Tm <sup>3+</sup> -Codoped YF <sub>3</sub> Nanobundles. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 12161-12167	3.8	100
18	Luminescent properties and thermal stability of BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> synthesized by sol-gel route. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 454, 245-249	5.7	24
17	Ultraviolet upconversion emissions of Gd <sup>3+</sup> . <i>Optics Letters</i> , <b>2008</b> , 33, 857-9	3	76
16	Ultraviolet upconversion fluorescence from 6D(J) of Gd <sup>3+</sup> induced by 980 nm excitation. <i>Optics Letters</i> , <b>2008</b> , 33, 2167-9	3	56
15	Intense ultraviolet upconversion luminescence from hexagonal NaYF <sub>4</sub> :Yb <sup>3+</sup> /Tm <sup>3+</sup> microcrystals. <i>Optics Express</i> , <b>2008</b> , 16, 11907-14	3.3	171
14	Synthesis and photophysical properties of core-shell Eu(DBM) <sub>3</sub> phen/TiO <sub>2</sub> nanohybrids. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 1464-7	1.3	2
13	Europium(III) complexes/silica hybrid nanospheres synthesized in microemulsion. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 1218-20	1.3	4
12	Enhanced ultraviolet up-conversion emissions of Tm <sup>3+</sup> /Yb <sup>3+</sup> codoped YF <sub>3</sub> nanocrystals. <i>Journal of Fluorine Chemistry</i> , <b>2008</b> , 129, 204-209	2.1	37

11	Synthesis and spectral properties of Eu <sup>3+</sup> -doped YF <sub>3</sub> nanobundles. <i>Journal of Fluorine Chemistry</i> , <b>2008</b> , 129, 621-624	2.1	19
10	Size-dependent upconversion luminescence in YF <sub>3</sub> :Yb <sup>3+</sup> /Tm <sup>3+</sup> nanobundles. <i>Journal of Fluorine Chemistry</i> , <b>2008</b> , 129, 1110-1113	2.1	16
9	Quantum confinement effect and field emission characteristics of ultrathin 3CβiC nanobelts. <i>Chemical Physics Letters</i> , <b>2008</b> , 461, 242-245	2.5	33
8	Up-conversion white light of Tm <sup>3+</sup> /Er <sup>3+</sup> /Yb <sup>3+</sup> tri-doped CaF <sub>2</sub> phosphors. <i>Optics Communications</i> , <b>2008</b> , 281, 1716-1719	2	77
7	Effect of SiO <sub>2</sub> coating on photoluminescence and thermal stability of BaMgAl <sub>10</sub> O <sub>17</sub> : Eu <sup>2+</sup> under VUV and UV excitation. <i>Optical Materials</i> , <b>2008</b> , 30, 930-934	3.3	44
6	Enhancement of violet and ultraviolet upconversion emissions in Yb <sup>3+</sup> /Er <sup>3+</sup> -codoped YF <sub>3</sub> nanocrystals. <i>Optical Materials</i> , <b>2008</b> , 31, 296-299	3.3	31
5	Energy transfer and heat-treatment effect of photoluminescence in Eu <sup>3+</sup> -doped TbPO <sub>4</sub> nanowires. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 467-473	3.3	69
4	Synthesis and green up-conversion fluorescence of colloidal La <sub>0.78</sub> Yb <sub>0.20</sub> Er <sub>0.02</sub> F <sub>3</sub> /SiO <sub>2</sub> core/shell nanocrystals. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 2268-2272	3.3	24
3	Bright Green Upconversion Fluorescence of Yb <sup>3+</sup> , Er <sup>3+</sup> -codoped Fluoride Colloidal Nanocrystal and Submicrocrystal Solutions. <i>Chemistry Letters</i> , <b>2007</b> , 36, 912-913	1.7	12
2	Rare-earth single atom based luminescent composite nanomaterials: Tunable full-color single phosphor and applications in WLEDs. <i>Nano Research</i> , 1	10	3
1	Simultaneous Synthesis, Modification, and DFT Calculation of Three-Color Lead Halide Perovskite Phosphors for Improving Stability and Luminous Efficiency of WLEDs. <i>Advanced Optical Materials</i> , 2101765	8.1	2