Peifen Zhu

List of Publications by Year
in descending order

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		172207	205818
85	2,610	29	48
papers	citations	h-index	g-index

86	86	86	2909
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intense ultraviolet upconversion luminescence from hexagonal NaYF_4:Yb^3+/Tm^3+ microcrystals. Optics Express, 2008, 16, 11907.	1.7	188
2	Light Extraction of Organic Light Emitting Diodes by Defective Hexagonalâ€Closeâ€Packed Array. Advanced Functional Materials, 2012, 22, 3454-3459.	7.8	160
3	Synthesis, Growth Mechanism, and Tunable Upconversion Luminescence of Yb³⁺/Tm³⁺-Codoped YF₃ Nanobundles. Journal of Physical Chemistry C, 2008, 112, 12161-12167.	1.5	103
4	FDTD Analysis on Extraction Efficiency of GaN Light-Emitting Diodes With Microsphere Arrays. Journal of Display Technology, 2013, 9, 317-323.	1.3	97
5	Light Extraction Efficiency Enhancement of III-Nitride Light-Emitting Diodes by Using 2-D Close-Packed ${hbox{TiO}}_{2}$ Microsphere Arrays. Journal of Display Technology, 2013, 9, 324-332.	1.3	86
6	Ultraviolet upconversion emissions of Gd^3+. Optics Letters, 2008, 33, 857.	1.7	85
7	Up-conversion white light of Tm3+/Er3+/Yb3+ tri-doped CaF2 phosphors. Optics Communications, 2008, 281, 1716-1719.	1.0	82
8	Energy transfer and heat-treatment effect of photoluminescence in Eu3+-doped TbPO4 nanowires. Journal of Solid State Chemistry, 2007, 180, 467-473.	1.4	73
9	Enhanced Photoluminescence of Water Soluble YVO₄:Ln³⁺ (Ln = Eu, Dy, Sm,) Tj ETQq1 1 0.784314 rgBT /Ov 17042-17045.	1.5	73
10	Co-MOF as an electron donor for promoting visible-light photoactivities of g-C3N4 nanosheets for CO2 reduction. Chinese Journal of Catalysis, 2020, 41, 514-523.	6.9	72
11	Dual-Mode Light-Emitting Lanthanide Metalâ€“Organic Frameworks with High Water and Thermal Stability and Their Application in White LEDs. ACS Applied Materials & Interfaces, 2020, 12, 18934-18943.	4.0	65
12	Ultraviolet upconversion fluorescence from ^6D_J of Gd^3+ induced by 980 nm excitation. Optics Letters, 2008, 33, 2167.	1.7	63
13	Synthesis and Properties of SiC/SiO₂ Nanochain Heterojunctions by Microwave Method. Crystal Growth and Design, 2009, 9, 1431-1435.	1.4	58
14	Controlled synthesis and luminescence properties from cubic to hexagonal NaYF4:Ln3+ (Ln=Eu and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.8	57
15	Mg²⁺â€Alloyed Allâ€Inorganic Halide Perovskites for White Lightâ€Emitting Diodes by 3Dâ€Printing Method. Advanced Optical Materials, 2019, 7, 1900916.	3.6	52
16	Effect of SiO2 coating on photoluminescence and thermal stability of BaMgAl10O17: Eu2+ under VUV and UV excitation. Optical Materials, 2008, 30, 930-934.	1.7	49
17	Zn-Alloyed All-Inorganic Halide Perovskite-Based White Light-Emitting Diodes with Superior Color Quality. Scientific Reports, 2019, 9, 18636.	1.6	49
18	Multifunctional NaLnF4@MOF-Ln Nanocomposites with Dual-Mode Luminescence for Drug Delivery and Cell Imaging. Nanomaterials, 2019, 9, 1274.	1.9	47

#	Article	IF	Citations
19	The improvement of thermal stability of BaMgAl10O17:Eu2+ coated with MgO. Materials Letters, 2008, 62, 784-786.	1.3	43
20	Dual Functions of CO₂ Molecular Activation and 4f Levels as Electron Transport Bridge in Dysprosium Single Atom Composite Photocatalysts with Enhanced Visibleâ€Light Photoactivities. Advanced Functional Materials, 2021, 31, 2104976.	7.8	43
21	Enhanced ultraviolet up-conversion emissions of Tm3+/Yb3+ codoped YF3 nanocrystals. Journal of Fluorine Chemistry, 2008, 129, 204-209.	0.9	38
22	Enhancement of violet and ultraviolet upconversion emissions in Yb3+/Er3+-codoped YF3 nanocrystals. Optical Materials, 2008, 31, 296-299.	1.7	37
23	Photoluminescence studies of Y2O3:Eu3+ under high pressure. Journal of Applied Physics, 2014, 115, .	1.1	36
24	Quantum confinement effect and field emission characteristics of ultrathin 3Câ€“SiC nanobelts. Chemical Physics Letters, 2008, 461, 242-245.	1.2	35
25	Erbium Single Atom Composite Photocatalysts for Reduction of CO₂ under Visible Light: CO₂ Molecular Activation and 4f Levels as an Electron Transport Bridge. Small, 2021, 17, e2102089.	5.2	35
26	Tetradic phosphor white light with variable CCT and superlative CRI through organolead halide perovskite nanocrystals. Nanoscale Advances, 2019, 1, 1791-1798.	2.2	33
27	Effect of packing density and packing geometry on light extraction of III-nitride light-emitting diodes with microsphere arrays. Photonics Research, 2015, 3, 184.	3.4	32
28	Synthesis and upconversion luminescence properties of NaYF4:Yb3+/Er3+ microspheres. Journal of Rare Earths, 2009, 27, 394-397.	2.5	31
29	Narrow-linewidth red-emission Eu3+-doped TiO2 spheres for light-emitting diodes. Journal of Applied Physics, 2016, 119, 124305.	1.1	31
30	Red photoluminescent Eu³⁺-doped Y₂O₃ nanospheres for LED-phosphor applications: Synthesis and characterization. Optics Express, 2018, 26, 34820.	1.7	31
31	Confinement and antenna effect for ultrasmall Y2O3:Eu3+ nanocrystals supported by MOF with enhanced near-UV light absorption thereby enhanced luminescence and excellently multifunctional applications. Nano Research, 2021, 14, 720-729.	5.8	29
32	Spectral optimization of white light from hybrid metal halide perovskites. OSA Continuum, 2019, 2, 1880.	1.8	29
33	Rare-earth single atom based luminescent composite nanomaterials: Tunable full-color single phosphor and applications in WLEDs. Nano Research, 2022, 15, 3594-3605.	5.8	28
34	Ultrastable structure and luminescence properties of Y2O3 nanotubes. Solid State Communications, 2010, 150, 1208-1212.	0.9	27
35	Luminescent properties and thermal stability of BaMgAl10O17:Eu2+ synthesized by solâ€“gel route. Journal of Alloys and Compounds, 2008, 454, 245-249.	2.8	26
36	Dual functions of CO₂molecular activation and 4f levels as electron transport bridges in erbium single atom composite photocatalysts therefore enhancing visible-light photoactivities. Journal of Materials Chemistry A, 2021, 9, 15820-15826.	5.2	26

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37	Synthesis and upconversion luminescence properties of YF3:Yb3+/Tm3+ octahedral nanocrystals. Journal of Fluorine Chemistry, 2009, 130, 158-161.	0.9	25
38	Synthesis and green up-conversion fluorescence of colloidal La0.78Yb0.20Er0.02F3/SiO2 core/shell nanocrystals. Journal of Solid State Chemistry, 2007, 180, 2268-2272.	1.4	24
39	Resonant cavity effect optimization of III-nitride thin-film flip-chip light-emitting diodes with microsphere arrays. Applied Optics, 2015, 54, 6305.	2.1	24
40	UV-Green Emission from Organolead Bromide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 15041-15046.	1.5	23
41	Saponification Precipitation Method for CsPbBr3Nanocrystals with Blue-Green Tunable Emission. Journal of Physical Chemistry C, 2019, 123, 1406-1412.	1.5	23
42	Photoluminescence properties and energy transfer in Y 2 O 3 :Eu 3+ nanophosphors. Chinese Physics B, 2014, 23, 057801.	0.7	21
43	Synthesis of CsPbBr₃ and Transformation into Cs₄PbBr₆ Crystals for White Light Emission with High CRI and Tunable CCT. Journal of Physical Chemistry C, 2019, 123, 12023-12028.	1.5	21
44	Design of circadian white light-emitting diodes with tunable color temperature and nearly perfect color rendition. OSA Continuum, 2019, 2, 2413.	1.8	20
45	Synthesis and spectral properties of Eu3+-doped YF3 nanobundles. Journal of Fluorine Chemistry, 2008, 129, 621-624.	0.9	19
46	Size-dependent upconversion luminescence in YF3:Yb3+/Tm3+ nanobundles. Journal of Fluorine Chemistry, 2008, 129, 1110-1113.	0.9	19
47	Substitution of Pb with Mn2+/Nd3+ to improve the luminescence and thermal stability of Cs4PbBr6. Chemical Engineering Journal, 2021, 423, 130186.	6.6	19
48	UV Resin Enhanced Stability of Metal Halide Perovskite Nanocrystals for White Light-Emitting Diodes. ACS Applied Electronic Materials, 2020, 2, 35-40.	2.0	18
49	Luminescent lanthanide single atom composite materials: Tunable full-color single phosphor and applications in white LEDs. Chemical Engineering Journal, 2022, 430, 132782.	6.6	18
50	Enhanced ultraviolet upconversion in YF3:Yb3+/Tm3+ nanocrystals. Journal of Rare Earths, 2009, 27, 330-333.	2.5	17
51	Pressure-Induced Amorphization of Strontium Azide. Journal of Physical Chemistry C, 2016, 120, 12423-12428.	1.5	16
52	Effect of Pressure on 4-Toluenesulfonyl Azide Studied by Raman Scattering and Synchrotron X-ray Diffraction. Journal of Physical Chemistry C, 2017, 121, 1032-1039.	1.5	15
53	Enhanced Visibleâ€Light Photoactivities of Perovskiteâ€Type LaFeO₃ Nanocrystals by Simultaneously Doping Er³⁺ and Coupling MgO for CO₂ Reduction. ChemCatChem, 2020, 12, 623-630.	1.8	14
54	Scalable synthesis of highly luminescent and stable thiocyanate based CsPbX3 perovskite nanocrystals for efficient white light-emitting diodes. Journal of Alloys and Compounds, 2021, 860, 158501.	2.8	14

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55	Aspect ratio engineering of microlens arrays in thin-film flip-chip light-emitting diodes. Applied Optics, 2015, 54, 10299.	2.1	13
56	Bright Green Upconversion Fluorescence of Yb3+, Er3+-codoped Fluoride Colloidal Nanocrystal and Submicrocrystal Solutions. Chemistry Letters, 2007, 36, 912-913.	0.7	12
57	Large-scale synthesis and photoluminescence properties ofÂSiC networks. Applied Physics A: Materials Science and Processing, 2009, 96, 521-527.	1.1	12
58	High pressure studies of trimethyltin azide by Raman scattering, IR absorption, and synchrotron X-ray diffraction. RSC Advances, 2016, 6, 98921-98926.	1.7	12
59	High-Pressure Studies of 4-Acetamidobenzenesulfonyl Azide: Combined Raman Scattering, IR Absorption, and Synchrotron X-ray Diffraction Measurements. Journal of Physical Chemistry B, 2016, 120, 12015-12022.	1.2	12
60	Frustrated total internal reflection in organic light-emitting diodes employing sphere cavity embedded in polystyrene. Journal of Optics (United Kingdom), 2016, 18, 025403.	1.0	12
61	Blue-red color-tunable all-inorganic bromideâ€“iodide mixed-halide perovskite nanocrystals using the saponification technique for white-light-emitting diodes. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1616.	0.9	11
62	Design rules for white light emitters with high light extraction efficiency. Optics Express, 2019, 27, A1297.	1.7	11
63	Simultaneous Synthesis, Modification, and DFT Calculation of Threeâ€Color Lead Halide Perovskite Phosphors for Improving Stability and Luminous Efficiency of WLEDs. Advanced Optical Materials, 2022, 10, 2101765.	3.6	11
64	High-pressure spectroscopic study of silver azide. RSC Advances, 2016, 6, 82270-82276.	1.7	10
65	Near Unity PLQY and High Stability of Barium Thiocyanate Based All-Inorganic Perovskites and Their Applications in White Light-Emitting Diodes. Photonics, 2021, 8, 209.	0.9	10
66	Optical Properties of Eu3+-Doped Y2O3 Nanotubes and Nanosheets Synthesized by Hydrothermal Method. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	9
67	La3PO7:Eu3+ nanoparticles â€" A novel red phosphor. Materials Letters, 2008, 62, 3146-3148.	1.3	8
68	Synthesis of ZnO Nanosheets by Microwave Thermal Vapor Method. Journal of Nanoscience and Nanotechnology, 2010, 10, 2065-2069.	0.9	8
69	Heterogeneous In/Mo cooperative bandgap engineering for promoting visible-light-driven CO₂ photoreduction. Journal of Materials Chemistry A, 2022, 10, 13393-13401.	5.2	8
70	Synthesis and Upconversion Luminescence of YF3:Yb3+,Tm3+ and TiO2-Coated YF3:Yb3+,Tm3+ Microcrystals. Journal of Nanoscience and Nanotechnology, 2010, 10, 2032-2035.	0.9	7
71	Light extraction efficiency enhancement of top-emitting organic light-emitting diodes employing low-Q whispering gallery modes in spheres. Materials Research Express, 2015, 2, 096202.	0.8	7
72	Pressure-Induced Phase Transitions and Amorphization of 4-Carboxybenzenesulfonyl Azide. Journal of Physical Chemistry C, 2016, 120, 25709-25716.	1.5	6

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73	Europium(III) Complexes/Silica Hybrid Nanospheres Synthesized in Microemulsion. Journal of Nanoscience and Nanotechnology, 2008, 8, 1218-1220.	0.9	5
74	High pressure studies of Ni₃[(C₂H₅N₅)₆(H₂O)₆](NO₃) by Raman scattering, IR absorption, and synchrotron X-ray diffraction. RSC Advances, 2016, 6, 65031-65037.	1.7	5
75	Effect of pressure on sodium azide studied by spectroscopic method. Journal of Physics Communications, 2017, 1, 025002.	0.5	5
76	High-Pressure Raman and Infrared Spectroscopic Studies of Cesium Azide. Journal of Physical Chemistry C, 2016, 120, 27013-27018.	1.5	4
77	Large-Scale Synthesis and Photoluminescence Properties of Aligned Multicore SiCâ€“SiO₂ Nanocables. Journal of Nanoscience and Nanotechnology, 2010, 10, 1964-1968.	0.9	3
78	Novel Composite of Nickel Thiocyanateâ€Based Allâ€Inorganic Lead Bromide Perovskite Nanocrystals with Enhanced Luminescent and Stability for White Lightâ€Emitting Diodes. Advanced Materials Interfaces, 2022, 9, .	1.9	3
79	Synthesis and Photophysical Properties of Coreâ€“Shell Eu(DBM)₃phen/TiO₂ Nanohybrids. Journal of Nanoscience and Nanotechnology, 2008, 8, 1464-1467.	0.9	2
80	Light Extraction: Light Extraction of Organic Light Emitting Diodes by Defective Hexagonal-Close-Packed Array (Adv. Funct. Mater. 16/2012). Advanced Functional Materials, 2012, 22, 3453-3453.	7.8	2
81	Synthesis and Luminescence Properties of Er3+ Doped Y(OH)3, NH4Y3F10, and YF3 Nanocrystals. Journal of Nanoscience and Nanotechnology, 2010, 10, 1728-1732.	0.9	1
82	FDTD modeling of InGaN-based light-emitting diodes with microsphere arrays. , 2012, , .		1
83	Enhanced luminescence through interface energy transfer in hierarchical heterogeneous nanocomposites and application in white LEDs. Journal of Colloid and Interface Science, 2021, 583, 204-213.	5.0	1
84	P-110: Light extraction of Phosphorescent OLEDs by Defective Hexagonal-Close-Packed Array. Digest of Technical Papers SID International Symposium, 2012, 43, 1474-1476.	0.1	0
85	Physics of High-Efficiency III-Nitride Quantum Wells Light-Emitting Diodes. , 2012, , .		0