Kezhi Zheng

List of Publications by Year
in descending order

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44	3,091	236925	233421
papers	citations	25	45
		h-index	g-index

46	46	46	3927
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in highly doped upconversion nanoparticles. Nature Communications, 2018, 9, 2415.	12.8	793
2	Near-infrared photocatalysis based on YF3â€‰:â€‰Yb3+,Tm3+/TiO2 core/shell nanoparticles. Chemical Communications, 2010, 46, 2304.	4.1	353
3	Temperature sensor based on the UV upconversion luminescence of Gd3+ in Yb3+â€“Tm3+â€“Gd3+ codoped NaLuF4 microcrystals. Journal of Materials Chemistry C, 2013, 1, 5502.	5.5	225
4	Remote manipulation of upconversion luminescence. Chemical Society Reviews, 2018, 47, 6473-6485.	38.1	210
5	Recent advances in upconversion nanocrystals: Expanding the kaleidoscopic toolbox for emerging applications. Nano Today, 2019, 29, 100797.	11.9	141
6	Rewritable Optical Memory Through Highâ€Registry Orthogonal Upconversion. Advanced Materials, 2018, 30, e1801726.	21.0	124
7	Five-photon UV upconversion emissions of Er^3+ for temperature sensing. Optics Express, 2015, 23, 7653.	3.4	109
8	Energy Flux Manipulation in Upconversion Nanosystems. Accounts of Chemical Research, 2019, 52, 228-236.	15.6	82
9	Synthesis and field emission of MoO3 nanoflowers by a microwave hydrothermal route. Journal of Alloys and Compounds, 2009, 481, 417-421.	5.5	79
10	Bright white upconversion emission from Yb3+, Er3+, and Tm3+-codoped Gd2O3 nanotubes. Physical Chemistry Chemical Physics, 2010, 12, 7620.	2.8	70
11	Ultraviolet upconversion fluorescence from ^6D_J of Gd^3+ induced by 980 nm excitation. Optics Letters, 2008, 33, 2167.	3.3	63
12	Synthesis and Properties of SiC/SiO₂ Nanochain Heterojunctions by Microwave Method. Crystal Growth and Design, 2009, 9, 1431-1435.	3.0	58
13	Ultraviolet upconversion fluorescence of Er^3+ induced by 1560 nm laser excitation. Optics Letters, 2010, 35, 2442.	3.3	52
14	Visualization of Intraâ€neuronal Motor Protein Transport through Upconversion Microscopy. Angewandte Chemie - International Edition, 2019, 58, 9262-9268.	13.8	52
15	A strategy for enhancing the sensitivity of optical thermometers in Î²-NaLuF₄:Yb³⁺/Er³⁺ nanocrystals. Journal of Materials Chemistry C, 2015, 3, 11589-11594.	5.5	48
16	Color control and white upconversion luminescence of LaOF:Ln3+ (Ln = Yb, Er, Tm) nanocrystals prepared by the solâ€“gel Pechini method. Dalton Transactions, 2013, 42, 5159.	3.3	46
17	Power switched multiphoton upconversion emissions of Er^3+ in Yb^3+/Er^3+ codoped Î²-NaYF_4 microcrystals induced by 980 nm excitation. Optics Express, 2010, 18, 2934.	3.4	45
18	Ultraviolet and violet upconversion fluorescence of europium (III) doped in YF_3 nanocrystals. Optics Letters, 2009, 34, 2781.	3.3	41

#	Article	IF	Citations
19	The synthesis and ultraviolet photoluminescence of 6Hâ€“SiC nanowires by microwave method. Journal Physics D: Applied Physics, 2008, 41, 235102.	2.8	40
20	Quantum confinement effect and field emission characteristics of ultrathin 3Câ€“SiC nanobelts. Chemical Physics Letters, 2008, 461, 242-245.	2.6	35
21	Visualization of Intraâ€neuronal Motor Protein Transport through Upconversion Microscopy. Angewandte Chemie, 2019, 131, 9363-9369.	2.0	34
22	Tuning Two-Photon Absorption Cross Section in Metal Organic Frameworks. Chemistry of Materials, 2017, 29, 7424-7430.	6.7	31
23	NIR to VUV: Seven-Photon Upconversion Emissions from Gd³⁺ Ions in Fluoride Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 556-560.	4.6	30
24	Controllable synthesis and size-dependent upconversion luminescence properties of Lu₂O₃:Yb³⁺/Er³⁺ nanospheres. CrystEngComm, 2014, 16, 4329-4337.	2.6	29
25	Synthesis and upconversion luminescence properties of YF3:Yb3+/Tm3+ octahedral nanocrystals. Journal of Fluorine Chemistry, 2009, 130, 158-161.	1.7	25
26	Dual mode emission of coreâ€“shell rare earth nanoparticles for fluorescence encoding. Journal of Materials Chemistry C, 2015, 3, 6314-6321.	5.5	24
27	Temperature-dependent six-photon upconversion fluorescence of Er3+. Journal of Fluorine Chemistry, 2011, 132, 5-8.	1.7	18
28	Infrared to ultraviolet upconversion fluorescence of Gd3+ in Î²-NaYF4 microcrystals induced by 1560nm excitation. Optical Materials, 2011, 33, 783-787.	3.6	18
29	Large-Scale Synthesis of Wide Band Gap Semiconductor Nanostructures by Microwave Method. Journal of Physical Chemistry C, 2009, 113, 19432-19438.	3.1	17
30	Controllable synthesis, upconversion luminescence, and paramagnetic properties of NaGdF4:Yb3+,Er3+ microrods. Journal of Fluorine Chemistry, 2012, 144, 157-164.	1.7	17
31	Synthesis and characterization of Yb3+,Tm3+:Ba2YF7 nanocrystalline with efficient upconversion fluorescence. Materials Letters, 2011, 65, 2368-2370.	2.6	16
32	Influence of core size on the upconversion luminescence properties of spherical Gd2O3:Yb3+/Er3+@SiO2 particles with core-shell structures. Journal of Applied Physics, 2013, 114, 183109.	2.5	15
33	Sensitized high-order ultraviolet upconversion emissions of Gd3+ by Er3+ in NaYF4 microcrystals. Journal of Alloys and Compounds, 2011, 509, 5848-5852.	5.5	13
34	Large-scale synthesis and photoluminescence properties ofÂSiC networks. Applied Physics A: Materials Science and Processing, 2009, 96, 521-527.	2.3	12
35	Effect of crystal structure and ions concentration on luminescence in Yb3+ and Tm3+ codoped fluoride microcrystals. Journal of Fluorine Chemistry, 2009, 130, 1059-1062.	1.7	11
36	Upconversion Luminescence Properties of Yb³⁺, Gd³⁺, and Tm³⁺ Co-Doped NaYF₄ Microcrystals Synthesized by the Hydrothermal Method. Journal of Nanoscience and Nanotechnology, 2010, 10, 1920-1923.	0.9	11

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37	Growth of hexagonal phase sodium rare earth tetrafluorides induced by heterogeneous cubic phase core. RSC Advances, 2014, 4, 13490.	3.6	11
38	Direct evidence of energy transfer from Er3+ to Sm3+ in Er3+/Sm3+ co-doped system. Chemical Physics Letters, 2012, 543, 166-169.	2.6	8
39	Tunable upconversion emission in Ba2YF7:Yb3+/Er3+ nanocrystals with different Yb3+ concentration. Materials Research Bulletin, 2013, 48, 2361-2364.	5.2	8
40	Oleic Acid-Modified LiYF₄:Er,Yb Nanocrystals for Potential Optical-Amplification Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 3718-3721.	0.9	8
41	Controllable synthesis of Î²-NaLuF4:Yb3+, Er3+ nanocrystals and their application in polymer-based optical waveguide amplifiers. Journal of Fluorine Chemistry, 2015, 175, 125-128.	1.7	7
42	Ultraviolet Upconversion Fluorescence of Er3+ in Yb3+/Er3+-Codoped Gd2O3 Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 9765-9769.	0.9	4
43	Flying upconversion fluorescent particles and direct observation of energy transfer and depopulation processes. CrystEngComm, 2015, 17, 587-591.	2.6	1
44	Reply to â€œcomment on â€˜A strategy for enhancing the sensitivity of optical thermometers in Î²-NaLuF₄:Yb³⁺/Er³⁺nanocrystalsâ€™â€•by L. Marciniak, A. Bednarkiewicz, D. Hreniak and W. Strek, J. Mater. Chem. C. Journal of Materials Chemistry C, 2016, 4, 4329-4330.	5.5	1