

# Zhan-Chao Wu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2445982/publications.pdf>

Version: 2024-02-01

50  
papers

1,423  
citations

304743

22  
h-index

345221

36  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1390  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficient and pH-sensitive orange luminescence from silicon-doped carbon dots for information encryption and bio-imaging. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 16-23.	9.4	63
2	Efficient and tunable Mn <sup>2+</sup> sensitized luminescence via energy transfer of a novel red phosphor Ca <sub>19</sub> Mn <sub>2</sub> (PO <sub>4</sub> ) <sub>14</sub> : Eu <sup>2+</sup> for white LED. <i>Ceramics International</i> , 2022, 48, 15695-15702.	4.8	11
3	Bright and thermal-stable RGB emission realized by Eu <sup>2+</sup> -Tb <sup>3+</sup> /Mn <sup>2+</sup> energy transfer in Na <sub>3</sub> SrMg <sub>11</sub> (PO <sub>4</sub> ) <sub>9</sub> . <i>Journal of Alloys and Compounds</i> , 2021, 874, 159975.	5.5	6
4	A facile synthesis of high-efficient N,S co-doped carbon dots for temperature sensing application. <i>Dyes and Pigments</i> , 2020, 173, 107952.	3.7	55
5	Concentration quenching and thermal stability of Eu <sup>2+</sup> emission in green emitting phosphor Li <sub>2</sub> BaSiO <sub>4</sub> : Eu <sup>2+</sup> . <i>Solid State Sciences</i> , 2020, 99, 106050.	3.2	21
6	Enhanced photoluminescence quantum yield of red-emitting CdTe:Gd <sup>3+</sup> QDs for WLEDs applications. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3147-3156.	3.8	7
7	Ultrahigh-Energy-Transfer Efficiency and Efficient Mn <sup>2+</sup> Red Emission Realized by Structural Confinement in Ca <sub>9</sub> LiMn(PO <sub>4</sub> ) <sub>7</sub> :Eu <sup>2+</sup> ,Tb <sup>3+</sup> Phosphor. <i>Inorganic Chemistry</i> , 2020, 59, 15050-15060.	4.0	32
8	Cationic substitution induced tuning of photoluminescence in Ba <sub>2.94</sub> -2La Na P <sub>4</sub> O <sub>13</sub> : 0.06Eu phosphors for WLEDs. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155109.	5.5	16
9	High-efficiency methanol oxidation electrocatalysts realized by ultrathin PtRu@O (M = Ni, Fe, Co) nanosheets. <i>Chemical Communications</i> , 2020, 56, 9028-9031.	4.1	19
10	Synthesis, structure and luminescence of a high-purity and thermal-stable Sr <sub>9</sub> LiMg(PO <sub>4</sub> ) <sub>7</sub> : Eu <sup>3+</sup> red phosphor. <i>Ceramics International</i> , 2020, 46, 11994-12000.	4.8	22
11	A yellow-emitting nitrogen-doped carbon dots for sensing of vitamin B12 and their cell-imaging. <i>Dyes and Pigments</i> , 2020, 176, 108227.	3.7	32
12	Tunable photoluminescence and energy transfer of Sr <sub>9</sub> LiMg(PO <sub>4</sub> ) <sub>7</sub> : Ce <sup>3+</sup> /Tb <sup>3+</sup> /Mn <sup>2+</sup> phosphors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 235, 118317.	3.9	4
13	High-efficient and thermal-stable Ca <sub>19</sub> Zn <sub>2</sub> (PO <sub>4</sub> ) <sub>14</sub> : Eu <sup>2+</sup> , Mn <sup>2+</sup> blue-red dual-emitting phosphor for plant cultivation LEDs. <i>Journal of Alloys and Compounds</i> , 2019, 811, 151956.	5.5	38
14	Synthesis and investigation of orange-emitting Eu <sup>2+</sup> doped Ba <sub>4</sub> Li <sub>2</sub> B <sub>10</sub> O <sub>20</sub> phosphor. <i>Journal of Luminescence</i> , 2019, 216, 116746.	3.1	1
15	Sr <sub>3</sub> (Y,Eu)(BO <sub>3</sub> ) <sub>3</sub> : A thermal-stable red-emitting solid-solution phosphor for NUV LED. <i>Ceramics International</i> , 2019, 45, 22517-22522.	4.8	8
16	Na <sub>2</sub> Tb <sub>0.5</sub> (MoO <sub>4</sub> )(PO <sub>4</sub> ):0.5Eu <sup>3+</sup> : A red-emitting phosphor with both high thermal stability and high colour purity. <i>Optical Materials</i> , 2019, 97, 109376.	3.6	12
17	Synthesis and enhanced photo/thermal stability of high-luminescent red-emitting CdTe@CaCO <sub>3</sub> composite for LED applications. <i>Ceramics International</i> , 2019, 45, 6484-6490.	4.8	10
18	A high-sensitive ratiometric luminescent thermometer based on dual-emission of carbon dots/Rhodamine B nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 572-582.	9.4	28

#	ARTICLE	IF	CITATIONS
19	Dopant preferential site occupation and high efficiency white emission in $K_2BaCa(PO_4)_2:Eu^{2+},Mn^{2+}$ phosphors for high quality white LED applications. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1289-1298.	6.0	65
20	Enhanced absorption of $Sr_3Lu_2(BO_3)_4:Ce^{3+},Tb^{3+}$ phosphor with energy transfer for UV-pumped white LEDs. <i>Journal of Alloys and Compounds</i> , 2019, 789, 215-220.	5.5	6
21	Improving moisture stability of $SrLiAl_3N_4:Eu^{2+}$ through phosphor-in-glass approach to realize its application in plant growing LED device. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 195-199.	9.4	24
22	An insight of luminescence properties of $Bi^{3+}$ -activated $K_2BaCa(PO_4)_2$ phosphors. <i>Solid State Sciences</i> , 2019, 92, 1-5.	3.2	18
23	$(Ca_{0.8}Mg_{0.2}Cl_2/SiO_2):Eu^{2+}$ : a violet-blue emitting phosphor with a low UV content for UV-LED based phototherapy illuminators. <i>New Journal of Chemistry</i> , 2019, 43, 3921-3926.	2.8	8
24	A zero-thermal-quenching and color-tunable phosphor $LuVO_4:Bi^{3+},Eu^{3+}$ for NUV LEDs. <i>Dyes and Pigments</i> , 2018, 156, 67-73.	3.7	67
25	Tuning of photoluminescence by co-doping $Eu^{2+}$ , $Eu^{3+}$ and $Tb^{3+}$ in $Ca_9NaZn(PO_4)_7$ phosphor. <i>Dyes and Pigments</i> , 2018, 150, 275-283.	3.7	29
26	Study on synthesis, optimization and concentration quenching mechanism of deep-blue-emitting $BaN_2(B_3O_5)_3:Eu^{2+}$ phosphor. <i>Optik</i> , 2018, 154, 421-427.	2.9	8
27	Luminescent properties of $Eu^{2+}$ in $BaCdP_2O_7:Eu^{2+}$ phosphor: Experimental and theoretical analysis. <i>Dyes and Pigments</i> , 2018, 149, 158-166.	3.7	15
28	Tuning of photoluminescence by crystal-phase engineering in the $Ba_3P_4O_{13}:Eu^{2+}$ phosphor. <i>Journal of Alloys and Compounds</i> , 2018, 734, 43-47.	5.5	14
29	Achieving green-red-tunable emission through $Tb^{3+} \rightarrow Eu^{3+}$ energy transfer in $Sr_3Y_2(Si_3O_9)_2:Tb^{3+},Eu^{3+}$ phosphors. <i>Journal of Materials Science</i> , 2018, 53, 3613-3623.	3.7	15
30	Synthesis, structure and luminescent properties of $Eu^{3+}$ doped $Ca_3LiMgV_3O_{12}$ color-tunable phosphor. <i>Ceramics International</i> , 2018, 44, 16514-16521.	4.8	17
31	Insight into temperature-dependent photoluminescence of $LaOBr:Ce^{3+},Tb^{3+}$ phosphor as a ratiometric and colorimetric luminescent thermometer. <i>Dyes and Pigments</i> , 2017, 145, 476-485.	3.7	48
32	A novel green $BaZn_2(BO_3)_2:Eu^{2+}$ phosphor for n-UV pumped white light-emitting diodes. <i>Journal of Luminescence</i> , 2017, 190, 424-428.	3.1	13
33	Study on luminescence and thermal stability of blue-emitting $Sr_5(PO_4)_3F:Eu^{2+}$ phosphor for application in InGaN-based LEDs. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 221, 10-16.	3.5	21
34	Photoluminescence properties and thermal stability of blue-emitting $Ba_{5-x}Cl(PO_4)_3:xEu^{2+}$ (0.004) $TjETQq0.0.0rgBT/Overlock$ 171, 126-131.	3.9	17
35	Removal of $Cu(II)$ ions from aqueous water by L-arginine modifying magnetic chitosan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 499, 141-149.	4.7	34
36	New blue-emitting $Ca_2(1)B_2P_2O_{10}:2xEu^{2+}$ (0.005 $\times$ 0.030) phosphors: Synthesis and photoluminescence properties. <i>Optik</i> , 2016, 127, 8281-8286.	2.9	2

#	ARTICLE	IF	CITATIONS
37	Study on the photoluminescence properties of a color-tunable Ca <sub>9</sub> ZnK(PO <sub>4</sub> ) <sub>7</sub> : Eu <sup>3+</sup> phosphor. <i>Optik</i> , 2016, 127, 4039-4042.	2.9	13
38	Synthesis, crystal structure and photoluminescence properties of new blue-green Ba <sub>1-x</sub> (PO <sub>3</sub> ) <sub>2</sub> :Eu <sup>2+</sup> (0 < x ≤ 0.040) phosphors for near ultraviolet based white light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 42714-42720.	3.6	14
39	Preparation and thermally stable luminescence properties of a new blue Sr <sub>5</sub> Cl <sub>0.75</sub> F <sub>0.25</sub> (PO <sub>4</sub> ) <sub>3</sub> : Eu <sup>2+</sup> phosphor for WLEDs. <i>Journal of Alloys and Compounds</i> , 2015, 644, 274-279.	5.5	17
40	A new porous magnetic chitosan modified by melamine for fast and efficient adsorption of Cu(II) ions. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 838-846.	7.5	51
41	The effects of charge compensation on photoluminescence properties of a new green-emitting ZnB <sub>2</sub> O <sub>4</sub> :Tb <sup>3+</sup> phosphor. <i>Luminescence</i> , 2014, 29, 868-871.	2.9	11
42	The reduction of Eu <sup>3+</sup> to Eu <sup>2+</sup> in a new orange-red emission Sr <sub>3</sub> P <sub>4</sub> O <sub>13</sub> : Eu phosphor prepared in air and its photoluminescence properties. <i>Ceramics International</i> , 2014, 40, 8827-8831.	4.8	45
43	Preparation and photoluminescence properties of a new orange-red Ba <sub>3</sub> P <sub>4</sub> O <sub>13</sub> :Eu <sup>3+</sup> phosphor. <i>Optik</i> , 2014, 125, 2970-2973.	2.9	6
44	A new self-activated yellow-emitting phosphor Zn <sub>2</sub> V <sub>2</sub> O <sub>7</sub> for white LED. <i>Optik</i> , 2013, 124, 5517-5519.	2.9	39
45	Preparation of triethylene-tetramine grafted magnetic chitosan for adsorption of Pb(II) ion from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2013, 260, 210-219.	12.4	159
46	Improved photoluminescence properties of a new green SrB <sub>2</sub> O <sub>4</sub> :Tb <sup>3+</sup> phosphor by charge compensation. <i>Materials Research Bulletin</i> , 2012, 47, 3413-3416.	5.2	28
47	Optimized photoluminescence of SrB <sub>2</sub> O <sub>4</sub> :Eu <sup>3+</sup> red-emitting phosphor by charge compensation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 87, 228-231.	3.9	28
48	Preparation, characterization and photoluminescence properties of BaB <sub>2</sub> O <sub>4</sub> : Eu <sup>3+</sup> red phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1520-1523.	3.9	52
49	A new single-host white-light-emitting BaSrMg(PO <sub>4</sub> ) <sub>2</sub> : Eu <sup>2+</sup> phosphor for white-light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2010, 498, 139-142.	5.5	84
50	Thermally stable luminescence of SrMg <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> : Eu <sup>2+</sup> phosphor for white light NUV light-emitting diodes. <i>Chemical Physics Letters</i> , 2008, 466, 88-90.	2.6	70