

Xiang-Fu Wang

List of Publications by Year in descending order

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89
papers

2,828
citations

201674

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51
g-index

90
all docs

90
docs citations

90
times ranked

2927
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical temperature sensing of rare-earth ion doped phosphors. RSC Advances, 2015, 5, 86219-86236.	3.6	629
2	Atomically thin binary V α V compound semiconductor: a first-principles study. Journal of Materials Chemistry C, 2016, 4, 6581-6587.	5.5	126
3	Optical temperature sensing of NaYbF ₄ : Tm ³⁺ @ SiO ₂ core-shell micro-particles induced by infrared excitation. Optics Express, 2013, 21, 21596.	3.4	116
4	Excitation powder dependent optical temperature behavior of Er ³⁺ doped transparent Sr _{0.69} La _{0.31} F _{2.31} glass ceramics. Optics Express, 2016, 24, 17792.	3.4	102
5	Influence of Doping and Excitation Powers on Optical Thermometry in Yb ³⁺ -Er ³⁺ doped CaWO ₄ . Scientific Reports, 2017, 7, 43383.	3.3	101
6	Excitation power dependent optical temperature behaviors in Mn ⁴⁺ doped oxyfluoride Na ₂ WO ₂ F ₄ . Physical Chemistry Chemical Physics, 2018, 20, 2028-2035.	2.8	90
7	Tunable electronic properties of GeSe/phosphorene heterostructure from first-principles study. Applied Physics Letters, 2016, 109, .	3.3	87
8	Size and shape modifications, phase transition, and enhanced luminescence of fluoride nanocrystals induced by doping. Journal of Materials Chemistry C, 2013, 1, 3158.	5.5	74
9	Spectral and energy transfer in Bi ³⁺ Re ⁿ⁺ (<i>n</i> = 2, 3, 4) co-doped phosphors: extended optical applications. Physical Chemistry Chemical Physics, 2018, 20, 11516-11541.	2.8	72
10	Research progress of flexible wearable pressure sensors. Sensors and Actuators A: Physical, 2021, 330, 112838.	4.1	70
11	Fabrication, photoluminescence and applications of quantum dots embedded glass ceramics. Chemical Engineering Journal, 2020, 383, 123082.	12.7	61
12	Improving Optical Temperature Sensing Performance of Er ³⁺ Doped Y ₂ O ₃ Microtubes via Co-doping and Controlling Excitation Power. Scientific Reports, 2017, 7, 758.	3.3	59
13	Bluish-white-light-emitting diodes based on two-dimensional lead halide perovskite (C ₆ H ₅ C ₂ H ₄ NH ₃) ₂ PbCl ₂ Br ₂ . Applied Physics Letters, 2018, 112, .	3.3	50
14	Modifying phase, shape and optical thermometry of NaGdF ₄ :2%Er ³⁺ phosphors through Ca ²⁺ doping. Optics Express, 2018, 26, 21950.	3.4	48
15	Curvature and ionization-induced reversible hydrogen storage in metalized hexagonal B36. Journal of Chemical Physics, 2014, 141, 194306.	3.0	47
16	Controlled synthesis, multicolor luminescence, and optical thermometer of bifunctional NaYbF ₄ :Nd ³⁺ @NaYF ₄ :Yb ³⁺ active-core/active-shell colloidal nanoparticles. Journal of Alloys and Compounds, 2017, 691, 530-536.	5.5	47
17	Methods, principles and applications of optical detection of metal ions. Chemical Engineering Journal, 2021, 417, 129125.	12.7	47
18	Optical thermometry based on luminescence behavior of Dy ³⁺ -doped transparent LaF ₃ glass ceramics. Applied Physics A: Materials Science and Processing, 2015, 121, 1171-1178.	2.3	42

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19	Controlled synthesis, photoluminescence, and the quantum cutting mechanism of Eu ³⁺ -doped NaYbF ₄ nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13440-13446.	2.8	40
20	Detecting the origin of luminescence in Er ³⁺ -doped hexagonal Na ₁₅ Gd ₁₅ F ₆ phosphors. <i>Optics Letters</i> , 2016, 41, 5314.	3.3	40
21	Metalized B ₄₀ fullerene as a novel material for storage and optical detection of hydrogen: a first-principles study. <i>RSC Advances</i> , 2016, 6, 56907-56912.	3.6	38
22	Controlling optical temperature detection of Ca ₃ Al ₂ O ₆ : Yb ³⁺ , Er ³⁺ phosphors through doping. <i>Journal of Alloys and Compounds</i> , 2019, 773, 393-400.	5.5	36
23	Fabrication, photoluminescence, and potential application in white light emitting diode of Dy ³⁺ and Tm ³⁺ -doped transparent glass ceramics containing GdSr ₂ F ₇ nanocrystals. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 317-322.	2.3	33
24	Ultraviolet and infrared photon-excited synergistic effect in Er ³⁺ -doped YbF ₃ phosphors. <i>Optics Letters</i> , 2011, 36, 4353.	3.3	32
25	Enhancement of blue emission in $\text{NaYbF}_4:\text{Tm}^{3+}/\text{Nd}^{3+}$ nanophosphors synthesized by nonclosed hydrothermal synthesis method. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 623-629.	2.2	31
26	Two dimensional WS ₂ lateral heterojunctions by strain modulation. <i>Applied Physics Letters</i> , 2016, 108, 263104.	3.3	31
27	Optical temperature sensing of hexagonal Na _{0.82} Ca _{0.08} Er _{0.16} Y _{0.853} F ₄ phosphor. <i>RSC Advances</i> , 2014, 4, 24170.	3.6	29
28	Flash foam stamp-inspired fabrication of flexible in-plane graphene integrated micro-supercapacitors on paper. <i>Journal of Power Sources</i> , 2019, 433, 226703.	7.8	28
29	A novel optical thermometry based on the energy transfer from charge transfer band to Eu ³⁺ -Dy ³⁺ ions. <i>Scientific Reports</i> , 2017, 7, 6023.	3.3	27
30	Synthesis and blue to near-infrared quantum cutting of Pr ³⁺ /Yb ³⁺ co-doped Li ₂ TeO ₄ phosphors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1537-1540.	3.5	26
31	Morphology control, spectrum modification and extended optical applications of rare earth ion doped phosphors. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15120-15162.	2.8	26
32	Controlled synthesis and mechanism of large-area WS ₂ flakes by low-pressure chemical vapor deposition. <i>Journal of Materials Science</i> , 2017, 52, 7215-7223.	3.7	25
33	Highly efficient cooperative up-conversion of Yb ³⁺ in NaYF ₄ . <i>Journal of Materials Science</i> , 2008, 43, 1354-1356.	3.7	24
34	Morphology and upconversion luminescence of NaYbF ₄ :Tm ³⁺ nanocrystals modified by Gd ³⁺ ions. <i>Journal of Alloys and Compounds</i> , 2013, 562, 99-105.	5.5	24
35	Upconversion properties of Nd ³⁺ and Yb ³⁺ -doped $\text{Na}(\text{Y}_{1.5}\text{Na}_{0.5})\text{F}_6$ powders. <i>Journal of Alloys and Compounds</i> , 2009, 477, 941-945.	5.5	23
36	Enhance the Er ³⁺ Upconversion Luminescence by Constructing NaGdF ₄ :Er ³⁺ @NaGdF ₄ :Er ³⁺ Active-Core/Active-Shell Nanocrystals. <i>Nanoscale Research Letters</i> , 2017, 12, 163.	5.7	23

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37	Visible photon-avalanche upconversion in Ho ³⁺ singly doped $\lambda^2\text{Na}(\text{Y}_{15}\text{Na}_{05})\text{F}_6$ under 980 nm excitation. <i>Optics Letters</i> , 2008, 33, 2653.	3.3	22
38	Thermal loading induced near-infrared broadband upconversion emission of Sm ³⁺ -doped $\lambda^2\text{-NaYbF}_4$ nano-phosphors. <i>Journal of Luminescence</i> , 2011, 131, 2325-2329.	3.1	19
39	Dynamic model for piezotronic and piezo-phototronic devices under low and high frequency external compressive stresses. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	19
40	Optical thermometry in low temperature through manipulating the energy transfer from WO_6 to Ho ³⁺ in $\text{Y}_2\text{WO}_6:\text{Ho}^{3+}$ phosphors. <i>Optical Materials</i> , 2018, 84, 778-785.	3.6	19
41	Controllable synthesis and down-conversion properties of flower-like $\text{NaY}(\text{MoO}_4)_2$ microcrystals via polyvinylpyrrolidone-mediated. <i>Journal of Solid State Chemistry</i> , 2013, 204, 266-271.	2.9	18
42	Optical Property of Dy ³⁺ and Ce ³⁺ -Doped $\text{SiO}_2\text{-BaO-NaO-Sr}$ Glasses. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1750-1755.	3.8	17
43	Giant enhancement of upconversion emission in $\text{NaYF}_4:\text{Er}^{3+}@(\text{NaYF}_4)_n:\text{Yb}^{3+}$ active-core/active-shell nanoparticles. <i>RSC Advances</i> , 2016, 6, 22845-22851.	3.6	17
44	Preparation and photoluminescence properties of $\text{SrY}_2\text{O}_4:\text{Yb}^{3+}, \text{Er}^{3+}$ powders. <i>Journal of Alloys and Compounds</i> , 2009, 474, 424-427.	5.5	16
45	Photolithographic nanoseeding method for selective synthesis of metal-catalysed nanostructures. <i>Nanotechnology</i> , 2019, 30, 015302.	2.6	16
46	Controlled synthesis and optical characterization of multifunctional ordered $\text{Y}_2\text{O}_3:\text{Er}^{3+}$ porous pyramid arrays. <i>Journal of Materials Chemistry</i> , 2011, 21, 4251.	6.7	15
47	Shape-controlled tunable homochromatic luminescence and inner photoelectric effect of hexagonal $\text{Na}_{1.23}\text{Ca}_{0.12}\text{Y}_{1.28}\text{Er}_{0.24}\text{F}_6$ phosphors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7137.	2.8	15
48	Surface enhanced Raman effect on CVD growth of WS ₂ film. <i>Chemical Physics Letters</i> , 2018, 707, 71-74.	2.6	14
49	Green-to-white-to-yellow tunable luminescence from Dy ³⁺ + Tb ³⁺ + Eu ³⁺ + $\text{Dy}^{3+}:\text{mbox{-}}\text{Tb}^{3+}:\text{mbox{-}}\text{Eu}^{3+}$ doped transparent glass ceramics containing GdSr_2F_7 nanocrystals. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 41-46.	2.3	13
50	Effect of light scattering on upconversion photoluminescence quantum yield in microscale-to-nanoscale materials. <i>Optics Express</i> , 2020, 28, 22803.	3.4	13
51	Magnesene: a theoretical prediction of a metallic, fast, high-capacity, and reversible anode material for sodium-ion batteries. <i>Nanoscale</i> , 2022, 14, 6118-6125.	5.6	13
52	Structure and Luminescence Properties of Single-Phased $\text{BaCa}_2\text{Y}_6\text{O}_{12}:\text{Eu}^{3+}, \text{Dy}^{3+}$. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, R216-R221.	1.8	11
53	Seven-photon ultraviolet upconversion emission of Er ³⁺ induced by 1,540-nm laser excitation. <i>Applied Physics B: Lasers and Optics</i> , 2014, 115, 443-449.	2.2	11
54	Fabrication and optical thermometry of transparent glass-ceramics containing $\text{Ag}@(\text{NaGdF}_4)_n:\text{Er}^{3+}$ core-shell nanocrystals. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6564-6574.	3.8	11

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55	Ferromagnetic half-metal properties of two dimensional vertical tellurene/MS ₂ heterostructure: A first-principles study. Computational Materials Science, 2020, 171, 109215.	3.0	11
56	Structures, plasmon-enhanced luminescence, and applications of heterostructure phosphors. Physical Chemistry Chemical Physics, 2021, 23, 20765-20794.	2.8	11
57	Upconversion emission of SrYbF ₅ :Er ³⁺ nanosheets modified by Tm ³⁺ ions. Journal of Rare Earths, 2013, 31, 1053-1058.	4.8	10
58	Preparation and upconversion properties of Ba ₂ ErF ₇ and Ba ₂ ErF ₇ :Yb ³⁺ powders. Journal of Luminescence, 2010, 130, 38-44.	3.1	9
59	Novel upconversion phenomenon of Nd ³⁺ sensitized by Yb ³⁺ in Nd ³⁺ +Yb ³⁺ -co-doped β -Na(Y _{1.5} Na _{0.5})F ₆ . Materials Letters, 2008, 62, 3865-3867.	2.6	8
60	β -Na(Y _{1.5} Na _{0.5})F ₆ :Tm ³⁺ A blue upconversion phosphor. Journal of Luminescence, 2009, 129, 325-327.	3.1	8
61	Infrared excitation induced upconversion fluorescence properties and photoelectric effect of NaYbF ₄ :Tm ³⁺ @TiO ₂ core-shell nanoparticles. RSC Advances, 2014, 4, 49415-49420.	3.6	7
62	Dual-mode infrared laser-excited synergistic effect in NaGdF ₄ :Er ³⁺ nano-glass ceramics: a kinetic model. Physical Chemistry Chemical Physics, 2018, 20, 22114-22122.	2.8	7
63	Flexible Planar Integrated Micro-Supercapacitors from Electrochemically Exfoliated Graphene as Advanced Electrodes Prepared by Flash Foam-Assisted Stamp Technique on Paper. Energy Technology, 2019, 7, 1900664.	3.8	7
64	Controlled synthesis and frictional properties of 2D MoTe ₂ via chemical vapor deposition. Chemical Physics Letters, 2019, 728, 156-159.	2.6	7
65	Morphology modification, spectrum, and optical thermometer application of rare earth ions doped β -Ag ₂ WO ₄ . Journal of Luminescence, 2020, 224, 117303.	3.1	7
66	Site-dependent photoluminescence and optical thermometric behaviors of double-perovskite CaBa ₂ WO ₆ :Er ³⁺ . Chemical Physics Letters, 2020, 749, 137410.	2.6	7
67	Promoting sensitivity and selectivity of NO ₂ gas sensor based on (P,N)-doped single-layer WSe ₂ : A first principles study. Results in Physics, 2022, 34, 105296.	4.1	6
68	Controlling optical temperature behaviors of Er ³⁺ doped Sr ₂ CaWO ₆ through doping and changing excitation powers. Optical Materials Express, 2018, 8, 1926.	3.0	5
69	PDMS-based subwavelength structures for broadband and wide-angle anti-reflection. Physica B: Condensed Matter, 2020, 580, 411943.	2.7	5
70	Efficient ultraviolet and near-infrared conversion amorphous YbF ₃ :Er film. Journal of Luminescence, 2014, 145, 351-356.	3.1	4
71	Ultraviolet Light Induced White Emission of Eu ³⁺ and Dy ³⁺ -Co-Doped Oxyfluoride Glass-Ceramics Containing LaF ₃ Nanocrystals. Transactions of the Indian Ceramic Society, 2015, 74, 16-21.	1.0	3
72	Monte Carlo simulation and experimental evaluation of the quantum efficiency of Eu ³⁺ -doped glass at different temperatures. Physical Chemistry Chemical Physics, 2020, 22, 26015-26024.	2.8	3

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73	Numerical modeling of laser-induced heating effect in optical thermometry. <i>Laser Physics</i> , 2020, 30, 036001.	1.2	3
74	Modeling and Monte Carlo simulation on photothermal effect in $Gd_3Al_3Ga_2O_{12}:Ce^{3+}/Y_3Al_5O_{12}:Cr^{3+}$ layered composite ceramic. <i>Journal of the American Ceramic Society</i> , 0, , .	3.8	3
75	Enhanced insulating behavior in the Ir-vacant $Sr_2Ir_1-xO_4$ system dominated by the local structure distortion. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1123-1128.	2.4	2
76	Detecting Variable Resistance by Fluorescence Intensity Ratio Technology. <i>Sensors</i> , 2019, 19, 2400.	3.8	2
77	Dynamic simulation of growth of $NaYF_4$ nanocrystals at high temperature and pressure. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154785.	5.5	2
78	Electrically controllable magneto-optic effects in a two-dimensional hexagonal organometallic lattice. <i>Physical Review B</i> , 2020, 101, .	3.2	2
79	Scattering Media Influences Photoluminescence Quantum Yield of Upconversion Microtube Phosphor. , 2020, , .		2
80	Quantum-size effect on the electronic and optical properties of hybrid TiO_2/Au clusters. <i>Journal of Chemical Physics</i> , 2014, 141, 054301.	3.0	1
81	Pressure dependent electronic structure and optical property of $Ba_2Mg(PO_4)_2:Eu^{2+}$. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160870.	5.5	1
82	Preparation and photothermal properties of composite materials of gradient index glass and disordered mesoporous carbon. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27534.	2.2	1
83	Pressure modified structure, bandgap, and optical property of self-activated strontium chlorovanadate phosphors. <i>Physica B: Condensed Matter</i> , 2022, 635, 413845.	2.7	1
84	An Overview on the Local Atomic Displacements and Electronic Structures in $BiS_2/BiSe_2$ -Based Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 1517-1527.	1.8	0
85	A Flexible Low-Pass Filter Based on Laser-Induced Graphene. <i>Journal of Electronic Materials</i> , 2020, 49, 6348-6357.	2.2	0
86	Simulation of light transmission through core-shell heterostructure nano-materials. <i>Chemical Physics</i> , 2020, 535, 110785.	1.9	0
87	Modeling and simulation of temperature nano-probes for nano-devices with variable powers. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	0
88	The fabrication and optical property of WLED encapsulated with the graded-index fluorescent glass film. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , 1.	2.2	0
89	Simulation on in-situ crystal growth of lead-free solder Sn-57Bi alloy. <i>Materials Today Communications</i> , 2022, 30, 103161.	1.9	0