

Xiang-Fu Wang

List of Publications by Year in descending order

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89
papers

2,828
citations

230014

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206121

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90
all docs

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docs citations

90
times ranked

3281
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation on in-situ crystal growth of lead-free solder Sn-57Bi alloy. <i>Materials Today Communications</i> , 2022, 30, 103161.	0.9	0
2	Promoting sensitivity and selectivity of NO ₂ gas sensor based on (P,N)-doped single-layer WSe ₂ : A first principles study. <i>Results in Physics</i> , 2022, 34, 105296.	2.0	6
3	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.	2.8	13
4	Pressure modified structure, bandgap, and optical property of self-activated strontium chlorovanadate phosphors. <i>Physica B: Condensed Matter</i> , 2022, 635, 413845.	1.3	1
5	Structures, plasmon-enhanced luminescence, and applications of heterostructure phosphors. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20765-20794.	1.3	11
6	Modeling and simulation of temperature nano-probes for nano-devices with variable powers. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	0
7	Methods, principles and applications of optical detection of metal ions. <i>Chemical Engineering Journal</i> , 2021, 417, 129125.	6.6	47
8	Research progress of flexible wearable pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2021, 330, 112838.	2.0	70
9	Pressure dependent electronic structure and optical property of Ba ₂ Mg(PO ₄) ₂ :Eu ²⁺ . <i>Journal of Alloys and Compounds</i> , 2021, 883, 160870.	2.8	1
10	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.	1.1	1
11	Fabrication, photoluminescence and applications of quantum dots embedded glass ceramics. <i>Chemical Engineering Journal</i> , 2020, 383, 123082.	6.6	61
12	Ferromagnetic half-metal properties of two dimensional vertical telluride/VS ₂ heterostructure: A first-principles study. <i>Computational Materials Science</i> , 2020, 171, 109215.	1.4	11
13	PDMS-based subwavelength structures for broadband and wide-angle anti-reflection. <i>Physica B: Condensed Matter</i> , 2020, 580, 411943.	1.3	5
14	Dynamic simulation of growth of NaYF ₄ nanocrystals at high temperature and pressure. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154785.	2.8	2
15	Monte Carlo simulation and experimental evaluation of the quantum efficiency of Eu ³⁺ -doped glass at different temperatures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26015-26024.	1.3	3
16	A Flexible Low-Pass Filter Based on Laser-Induced Graphene. <i>Journal of Electronic Materials</i> , 2020, 49, 6348-6357.	1.0	0
17	Morphology modification, spectrum, and optical thermometer application of rare earth ions doped Ag_2WO_4 . <i>Journal of Luminescence</i> , 2020, 224, 117303.	1.5	7
18	Site-dependent photoluminescence and optical thermometric behaviors of double-perovskite CaBa ₂ WO ₆ :Er ³⁺ . <i>Chemical Physics Letters</i> , 2020, 749, 137410.	1.2	7

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19	Simulation of light transmission through core-shell heterostructure nano-materials. Chemical Physics, 2020, 535, 110785.	0.9	0
20	Morphology control, spectrum modification and extended optical applications of rare earth ion doped phosphors. Physical Chemistry Chemical Physics, 2020, 22, 15120-15162.	1.3	26
21	Electrically controllable magneto-optic effects in a two-dimensional hexagonal organometallic lattice. Physical Review B, 2020, 101, .	1.1	2
22	Numerical modeling of laser-induced heating effect in optical thermometry. Laser Physics, 2020, 30, 036001.	0.6	3
23	Scattering Media Influences Photoluminescence Quantum Yield of Upconversion Microtube Phosphor. , 2020, , .		2
24	Effect of light scattering on upconversion photoluminescence quantum yield in microscale-to-nanoscale materials. Optics Express, 2020, 28, 22803.	1.7	13
25	Flexible Planarâ€Integrated Microâ€Supercapacitors from Electrochemically Exfoliated Graphene as Advanced Electrodes Prepared by Flash Foamâ€Assisted Stamp Technique on Paper. Energy Technology, 2019, 7, 1900664.	1.8	7
26	Flash foam stamp-inspired fabrication of flexible in-plane graphene integrated micro-supercapacitors on paper. Journal of Power Sources, 2019, 433, 226703.	4.0	28
27	Detecting Variable Resistance by Fluorescence Intensity Ratio Technology. Sensors, 2019, 19, 2400.	2.1	2
28	An Overview on the Local Atomic Displacements and Electronic Structures in BiS ₂ /BiSe ₂ -Based Superconductors. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1517-1527.	0.8	0
29	Controlled synthesis and frictional properties of 2D MoTe ₂ via chemical vapor deposition. Chemical Physics Letters, 2019, 728, 156-159.	1.2	7
30	Fabrication and optical thermometry of transparent glassâ€ceramics containing Ag@NaGdF ₄ :Er ³⁺ coreâ€shell nanocrystals. Journal of the American Ceramic Society, 2019, 102, 6564-6574.	1.9	11
31	Photolithographic nanoseeding method for selective synthesis of metal-catalysed nanostructures. Nanotechnology, 2019, 30, 015302.	1.3	16
32	Controlling optical temperature detection of Ca ₃ Al ₂ O ₆ :Yb ³⁺ ,Er ³⁺ phosphors through doping. Journal of Alloys and Compounds, 2019, 773, 393-400.	2.8	36
33	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, .	1.5	50
34	Dynamic model for piezotronic and piezo-phototronic devices under low and high frequency external compressive stresses. Journal of Applied Physics, 2018, 123, .	1.1	19
35	Spectral and energy transfer in Bi ³⁺ â€Re ⁿ⁺ (n = 2, 3, 4) co-doped phosphors: extended optical applications. Physical Chemistry Chemical Physics, 2018, 20, 11516-11541.	1.3	72
36	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.	1.3	90

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37	Enhanced insulating behavior in the Ir-vacant Sr ₂ Ir _{1-x} O ₄ system dominated by the local structure distortion. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1123-1128.	1.0	2
38	Controlling optical temperature behaviors of Er ³⁺ doped Sr ₂ CaWO ₆ through doping and changing excitation powers. <i>Optical Materials Express</i> , 2018, 8, 1926.	1.6	5
39	Dual-mode infrared laser-excited synergistic effect in NaGdF ₄ :Er ³⁺ nano-glass ceramics: a kinetic model. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22114-22122.	1.3	7
40	Surface enhanced Raman effect on CVD growth of WS ₂ film. <i>Chemical Physics Letters</i> , 2018, 707, 71-74.	1.2	14
41	Optical thermometry in low temperature through manipulating the energy transfer from WO ₆ to Ho ³⁺ in Y ₂ WO ₆ :Ho ³⁺ phosphors. <i>Optical Materials</i> , 2018, 84, 778-785.	1.7	19
42	Modifying phase, shape and optical thermometry of NaGdF ₄ :2%Er ³⁺ phosphors through Ca ²⁺ doping. <i>Optics Express</i> , 2018, 26, 21950.	1.7	48
43	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.	3.1	23
44	Influence of Doping and Excitation Powers on Optical Thermometry in Yb ³⁺ -Er ³⁺ doped CaWO ₄ . <i>Scientific Reports</i> , 2017, 7, 43383.	1.6	101
45	Improving Optical Temperature Sensing Performance of Er ³⁺ Doped Y ₂ O ₃ Microtubes via Co-doping and Controlling Excitation Power. <i>Scientific Reports</i> , 2017, 7, 758.	1.6	59
46	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.	1.7	25
47	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.	1.6	27
48	Controlled synthesis, multicolor luminescence, and optical thermometer of bifunctional NaYbF ₄ :Nd ³⁺ @NaYF ₄ :Yb ³⁺ active-core/active-shell colloidal nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 691, 530-536.	2.8	47
49	Detecting the origin of luminescence in Er ³⁺ -doped hexagonal Na ₁₅ Gd ₁₅ F ₆ phosphors. <i>Optics Letters</i> , 2016, 41, 5314.	1.7	40
50	Tunable electronic properties of GeSe/phosphorene heterostructure from first-principles study. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	87
51	Two dimensional WS ₂ lateral heterojunctions by strain modulation. <i>Applied Physics Letters</i> , 2016, 108, 263104.	1.5	31
52	Excitation powder dependent optical temperature behavior of Er ³⁺ doped transparent Sr _{0.69} La _{0.31} F _{2.31} glass ceramics. <i>Optics Express</i> , 2016, 24, 17792.	1.7	102
53	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.	1.7	38
54	Atomically thin binary V ₂ compound semiconductor: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6581-6587.	2.7	126

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55	Giant enhancement of upconversion emission in NaYF ₄ :Er ³⁺ @NaYF ₄ :Yb ³⁺ active-core/active-shell nanoparticles. RSC Advances, 2016, 6, 22845-22851.	1.7	17
56	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.	0.4	3
57	Optical temperature sensing of rare-earth ion doped phosphors. RSC Advances, 2015, 5, 86219-86236.	1.7	629
58	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.	1.1	42
59	Optical Property of Dy ³⁺ and Ce ³⁺ -Doped SiO ₂ -Na ⁺ -Sr Glasses. Journal of the American Ceramic Society, 2014, 97, 1750-1755.	1.9	17
60	Curvature and ionization-induced reversible hydrogen storage in metalized hexagonal B36. Journal of Chemical Physics, 2014, 141, 194306.	1.2	47
61	Structure and Luminescence Properties of Single-Phased BaCa ₂ Y ₆ O ₁₂ :Eu ³⁺ , Dy ³⁺ . ECS Journal of Solid State Science and Technology, 2014, 3, R216-R221.	0.9	11
62	Seven-photon ultraviolet upconversion emission of Er ³⁺ induced by 1,540-nm laser excitation. Applied Physics B: Lasers and Optics, 2014, 115, 443-449.	1.1	11
63	Quantum-size effect on the electronic and optical properties of hybrid TiO ₂ /Au clusters. Journal of Chemical Physics, 2014, 141, 054301.	1.2	1
64	Controlled synthesis, photoluminescence, and the quantum cutting mechanism of Eu ³⁺ doped NaYbF ₄ nanotubes. Physical Chemistry Chemical Physics, 2014, 16, 13440-13446.	1.3	40
65	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.	1.7	7
66	Optical temperature sensing of hexagonal Na _{0.82} Ca _{0.08} Er _{0.16} Y _{0.85} F ₄ phosphor. RSC Advances, 2014, 4, 24170.	1.7	29
67	Efficient ultraviolet and near-infrared conversion amorphous YbF ₃ :Er film. Journal of Luminescence, 2014, 145, 351-356.	1.5	4
68	Green-white-yellow tunable luminescence from Dy ³⁺ + Tb ³⁺ + Eu ³⁺ doped transparent glass ceramics containing GdSr ₂ F ₇ nanocrystals. Applied Physics A: Materials Science and Processing, 2013, 113, 41-46.	1.1	13
69	Fabrication, photoluminescence, and potential application in white light emitting diode of Dy ³⁺ + Tm ³⁺ doped transparent glass ceramics containing GdSr ₂ F ₇ nanocrystals. Applied Physics A: Materials Science and Processing, 2013, 112, 317-322.	1.1	33
70	Morphology and upconversion luminescence of NaYbF ₄ :Tm ³⁺ nanocrystals modified by Gd ³⁺ ions. Journal of Alloys and Compounds, 2013, 562, 99-105.	2.8	24
71	Upconversion emission of SrYbF ₅ :Er ³⁺ nanosheets modified by Tm ³⁺ ions. Journal of Rare Earths, 2013, 31, 1053-1058.	2.5	10
72	Controllable synthesis and down-conversion properties of flower-like NaY(MoO ₄) ₂ microcrystals via polyvinylpyrrolidone-mediated. Journal of Solid State Chemistry, 2013, 204, 266-271.	1.4	18

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73	Size and shape modifications, phase transition, and enhanced luminescence of fluoride nanocrystals induced by doping. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3158.	2.7	74
74	Optical temperature sensing of NaYbF ₄ : Tm ³⁺ @ SiO ₂ core-shell micro-particles induced by infrared excitation. <i>Optics Express</i> , 2013, 21, 21596.	1.7	116
75	Shape-controlled tunable homochromatic luminescence and inner photoelectric effect of hexagonal Na _{1.23} Ca _{0.12} Y _{1.28} Er _{0.24} F ₆ phosphors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7137.	1.3	15
76	Controlled synthesis and optical characterization of multifunctional ordered Y ₂ O ₃ :Er ³⁺ porous pyramid arrays. <i>Journal of Materials Chemistry</i> , 2011, 21, 4251.	6.7	15
77	Ultraviolet and infrared photon-excited synergistic effect in Er ³⁺ -doped YbF ₃ phosphors. <i>Optics Letters</i> , 2011, 36, 4353.	1.7	32
78	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.	1.7	26
79	Thermal loading induced near-infrared broadband upconversion emission of Sm ³⁺ -doped β -NaYbF ₄ nano-phosphors. <i>Journal of Luminescence</i> , 2011, 131, 2325-2329.	1.5	19
80	Enhancement of blue emission in β -NaYbF ₄ :Tm ³⁺ /Nd ³⁺ nanophosphors synthesized by nonclosed hydrothermal synthesis method. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 623-629.	1.1	31
81	Preparation and upconversion properties of Ba ₂ ErF ₇ and Ba ₂ ErF ₇ :Yb ³⁺ powders. <i>Journal of Luminescence</i> , 2010, 130, 38-44.	1.5	9
82	β -Na(Y _{1.5} Na _{0.5})F ₆ :Tm ³⁺ A blue upconversion phosphor. <i>Journal of Luminescence</i> , 2009, 129, 325-327.	1.5	8
83	Preparation and photoluminescence properties of SrY ₂ O ₄ :Yb ³⁺ , Er ³⁺ powders. <i>Journal of Alloys and Compounds</i> , 2009, 474, 424-427.	2.8	16
84	Upconversion properties of Nd ³⁺ :Yb ³⁺ :Ho ³⁺ -doped β -Na(Y _{1.5} Na _{0.5})F ₆ powders. <i>Journal of Alloys and Compounds</i> , 2009, 477, 941-945.	2.8	23
85	Highly efficient cooperative up-conversion of Yb ³⁺ in NaYF ₄ . <i>Journal of Materials Science</i> , 2008, 43, 1354-1356.	1.7	24
86	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 . <i>Materials Letters</i> , 2008, 62, 3865-3867.	1.3	8
87	Visible photon-avalanche upconversion in Ho ³⁺ singly doped β -Na(Y _{1.5} Na _{0.5})F ₆ under 980 nm excitation. <i>Optics Letters</i> , 2008, 33, 2653.	1.7	22
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.	1.1	0
89	Modeling and Monte Carlo simulation on photothermal effect in Gd ₃ Al ₃ Ga ₂ O ₁₂ :Ce ³⁺ /Y ₃ Al ₅ O ₁₂ :Cr ³⁺ layered composite ceramic. <i>Journal of the American Ceramic Society</i> , 0, , .	1.9	3