Xiang-Fu Wang

List of Publications by Year
in descending order

89 papers	2,828 citations	201674 27 h-index	182427 51 g-index
90 all docs	90 docs citations	90 times ranked	2927 citing authors

#	Article	IF	Citations
1	Simulation on in-situ crystal growth of lead-free solder Sn-57Bi alloy. Materials Today Communications, 2022, 30, 103161.	1.9	0
2	Promoting sensitivity and selectivity of NO2 gas sensor based on (P,N)-doped single-layer WSe2: A first principles study. Results in Physics, 2022, 34, 105296.	4.1	6
3	Magnesene: a theoretical prediction of a metallic, fast, high-capacity, and reversible anode material for sodium-ion batteries. Nanoscale, 2022, 14, 6118-6125.	5.6	13
4	Pressure modified structure, bandgap, and optical property of self-activated strontium chlorovanadate phosphors. Physica B: Condensed Matter, 2022, 635, 413845.	2.7	1
5	Structures, plasmon-enhanced luminescence, and applications of heterostructure phosphors. Physical Chemistry Chemical Physics, 2021, 23, 20765-20794.	2.8	11
6	Modeling and simulation of temperature nano-probes for nano-devices with variable powers. Bulletin of Materials Science, 2021, 44, 1.	1.7	0
7	Methods, principles and applications of optical detection of metal ios. Chemical Engineering Journal, 2021, 417, 129125.	12.7	47
8	Research progress of flexible wearable pressure sensors. Sensors and Actuators A: Physical, 2021, 330, 112838.	4.1	70
9	Press dependent electronic structure and optical property of Ba2Mg(PO4)2:Eu2+. Journal of Alloys and Compounds, 2021, 883, 160870.	5.5	1
10	Preparation and photothermal properties of composite materials ofÂgradient indexÂglass andÂdisordered mesoporous carbon. Journal of Materials Science: Materials in Electronics, 2021, 32, 27534.	2.2	1
11	Fabrication, photoluminescence and applications of quantum dots embedded glass ceramics. Chemical Engineering Journal, 2020, 383, 123082.	12.7	61
12	Ferromagnetic half-metal properties of two dimensional vertical tellurene/VS2 heterostructure: A first-principles study. Computational Materials Science, 2020, 171, 109215.	3.0	11
13	PDMS-based subwavelength structures for broadband and wide-angle anti-reflection. Physica B: Condensed Matter, 2020, 580, 411943.	2.7	5
14	Dynamic simulation of growth of NaYF4 nanocrystals at high temperature and pressure. Journal of Alloys and Compounds, 2020, 831, 154785.	5.5	2
15	Monte Carlo simulation and experimental evaluation of the quantum efficiency of Eu‹sup›3+‹/sup›-doped glass at different temperatures. Physical Chemistry Chemical Physics, 2020, 22, 26015-26024.	2.8	3
16	A Flexible Low-Pass Filter Based on Laser-Induced Graphene. Journal of Electronic Materials, 2020, 49, 6348-6357.	2.2	0
17	Morphology modification, spectrum, and optical thermometer application of rare earth ions doped Î±-Ag2WO4. Journal of Luminescence, 2020, 224, 117303.	3.1	7
18	Site-dependent photoluminescence and optical thermometric behaviors of double-perovskite CaBa2WO6:Er3+. Chemical Physics Letters, 2020, 749, 137410.	2.6	7

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19	Simulation of light transmission through core-shell heterostructure nano-materials. Chemical Physics, 2020, 535, 110785.	1.9	0
20	Morphology control, spectrum modification and extended optical applications of rare earth ion doped phosphors. Physical Chemistry Chemical Physics, 2020, 22, 15120-15162.	2.8	26
21	Electrically controllable magneto-optic effects in a two-dimensional hexagonal organometallic lattice. Physical Review B, 2020, 101, .	3.2	2
22	Numerical modeling of laser-induced heating effect in optical thermometry. Laser Physics, 2020, 30, 036001.	1.2	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.	3.4	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.	3.8	7
26	Flash foam stamp-inspired fabrication of flexible in-plane graphene integrated micro-supercapacitors on paper. Journal of Power Sources, 2019, 433, 226703.	7.8	28
27	Detecting Variable Resistance by Fluorescence Intensity Ratio Technology. Sensors, 2019, 19, 2400.	3.8	2
28	An Overview on the Local Atomic Displacements and Electronic Structures in BiS2/BiSe2-Based Superconductors. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1517-1527.	1.8	0
29	Controlled synthesis and frictional properties of 2D MoTe2 via chemical vapor deposition. Chemical Physics Letters, 2019, 728, 156-159.	2.6	7
30	Fabrication and optical thermometry of transparent glassâ€ceramics containing Ag@NaGdF₄: Er³⁺ coreâ€shell nanocrystals. Journal of the American Ceramic Society, 2019, 102, 6564-6574.	3.8	11
31	Photolithographic nanoseeding method for selective synthesis of metal-catalysed nanostructures. Nanotechnology, 2019, 30, 015302.	2.6	16
32	Controlling optical temperature detection of Ca3Al2O6: Yb3+,Er3+ phosphors through doping. Journal of Alloys and Compounds, 2019, 773, 393-400.	5.5	36
33	Bluish-white-light-emitting diodes based on two-dimensional lead halide perovskite (C6H5C2H4NH3)2PbCl2Br2. Applied Physics Letters, 2018, 112, .	3.3	50
34	Dynamic model for piezotronic and piezo-phototronic devices under low and high frequency external compressive stresses. Journal of Applied Physics, 2018, 123, .	2.5	19
35	Spectral and energy transfer in Bi³⁺â€“Reⁿ⁺(n= 2, 3, 4) co-doped phosphors: extended optical applications. Physical Chemistry Chemical Physics, 2018, 20, 11516-11541.	2.8	72
36	Excitation power dependent optical temperature behaviors in Mn⁴⁺doped oxyfluoride Na₂WO₂F₄. Physical Chemistry Chemical Physics, 2018, 20, 2028-2035.	2.8	90

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37	Enhanced insulating behavior in the Ir-vacant Sr2Ir1â€“x O4 system dominated by the local structureÂdistortion. Journal of Synchrotron Radiation, 2018, 25, 1123-1128.	2.4	2
38	Controlling optical temperature behaviors of Er3+ doped Sr2CaWO6 through doping and changing excitation powers. Optical Materials Express, 2018, 8, 1926.	3.0	5
39	Dual-mode infrared laser-excited synergistic effect in NaGdF₄:Er³⁺ nano-glass ceramics: a kinetic model. Physical Chemistry Chemical Physics, 2018, 20, 22114-22122.	2.8	7
40	Surface enhanced Raman effect on CVD growth of WS2 film. Chemical Physics Letters, 2018, 707, 71-74.	2.6	14
41	Optical thermometry in low temperature through manipulating the energy transfer from WO66â^' to Ho3+ in Y2WO6:Ho3+ phosphors. Optical Materials, 2018, 84, 778-785.	3.6	19
42	Modifying phase, shape and optical thermometry of NaGdF₄:2%Er³⁺ phosphors through Ca²⁺ doping. Optics Express, 2018, 26, 21950.	3.4	48
43	Enhance the Er3+ Upconversion Luminescence by Constructing NaGdF4:Er3+@NaGdF4:Er3+ Active-Core/Active-Shell Nanocrystals. Nanoscale Research Letters, 2017, 12, 163.	5.7	23
44	Influence of Doping and Excitation Powers on Optical Thermometry in Yb3+-Er3+ doped CaWO4. Scientific Reports, 2017, 7, 43383.	3.3	101
45	Improving Optical Temperature Sensing Performance of Er3+ Doped Y2O3 Microtubes via Co-doping and Controlling Excitation Power. Scientific Reports, 2017, 7, 758.	3.3	59
46	Controlled synthesis and mechanism of large-area WS2 flakes by low-pressure chemical vapor deposition. Journal of Materials Science, 2017, 52, 7215-7223.	3.7	25
47	A novel optical thermometry based on the energy transfer from charge transfer band to Eu3+-Dy3+ ions. Scientific Reports, 2017, 7, 6023.	3.3	27
48	Controlled synthesis, multicolor luminescence, and optical thermometer of bifunctional NaYbF4:Nd3+@NaYF4:Yb3+ active-core/active-shell colloidal nanoparticles. Journal of Alloys and Compounds, 2017, 691, 530-536.	5.5	47
49	Detecting the origin of luminescence in Er^3+-doped hexagonal Na_15Gd_15F_6 phosphors. Optics Letters, 2016, 41, 5314.	3.3	40
50	Tunable electronic properties of GeSe/phosphorene heterostructure from first-principles study. Applied Physics Letters, 2016, 109, .	3.3	87
51	Two dimensional WS2 lateral heterojunctions by strain modulation. Applied Physics Letters, 2016, 108, 263104.	3.3	31
52	Excitation powder dependent optical temperature behavior of Er^3+ doped transparent Sr_069La_031F_231 glass ceramics. Optics Express, 2016, 24, 17792.	3.4	102
53	Metalized B₄₀fullerene as a novel material for storage and optical detection of hydrogen: a first-principles study. RSC Advances, 2016, 6, 56907-56912.	3.6	38
54	Atomically thin binary Vâ€“V compound semiconductor: a first-principles study. Journal of Materials Chemistry C, 2016, 4, 6581-6587.	5.5	126

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55	Giant enhancement of upconversion emission in NaYF₄:Er³⁺@NaYF₄:Yb³⁺ active-core/active-shell nanoparticles. RSC Advances, 2016, 6, 22845-22851.	3.6	17
56	Ultraviolet Light Induced White Emission of Eu3+and Dy3+Co-Doped Oxyfluoride Glass-Ceramics Containing LaF3Nanocrystals. Transactions of the Indian Ceramic Society, 2015, 74, 16-21.	1.0	3
57	Optical temperature sensing of rare-earth ion doped phosphors. RSC Advances, 2015, 5, 86219-86236.	3.6	629
58	Optical thermometry based on luminescence behavior of Dy3+-doped transparent LaF3 glass ceramics. Applied Physics A: Materials Science and Processing, 2015, 121, 1171-1178.	2.3	42
59	Optical Property of Dy³⁺â€and Ce³⁺â€Doped Siâ€“Bâ€“Naâ€“Sr Glasses. Journal of the American Ceramic Society, 2014, 97, 1750-1755.	3.8	17
60	Curvature and ionization-induced reversible hydrogen storage in metalized hexagonal B36. Journal of Chemical Physics, 2014, 141, 194306.	3.0	47
61	Structure and Luminescence Properties of Single-Phased BaCa₂Y₆O₁₂:Eu³⁺, Dy³⁺. ECS Journal of Solid State Science and Technology, 2014, 3, R216-R221.	1.8	11
62	Seven-photon ultraviolet upconversion emission of Er3+ induced by 1,540-nm laser excitation. Applied Physics B: Lasers and Optics, 2014, 115, 443-449.	2.2	11
63	Quantum-size effect on the electronic and optical properties of hybrid TiO2/Au clusters. Journal of Chemical Physics, 2014, 141, 054301.	3.0	1
64	Controlled synthesis, photoluminescence, and the quantum cutting mechanism of Eu³⁺ doped NaYbF₄ nanotubes. Physical Chemistry Chemical Physics, 2014, 16, 13440-13446.	2.8	40
65	Infrared excitation induced upconversion fluorescence properties and photoelectric effect of NaYbF₄:Tm³⁺@TiO₂coreâ€“shell nanoparticles. RSC Advances, 2014, 4, 49415-49420.	3.6	7
66	Optical temperature sensing of hexagonal Na0.82Ca0.08Er0.16Y0.853F4 phosphor. RSC Advances, 2014, 4, 24170.	3.6	29
67	Efficient ultraviolet and near-infrared conversion amorphous YbF3:Er film. Journal of Luminescence, 2014, 145, 351-356.	3.1	4
68	Greenâ€“whiteâ€“yellow tunable luminescence from Dy 3 + â€“ Tb 3 + â€“ Eu 3 + $mathrm{Dy}^{3+}mbox{--}mathrm{Tb}^{3+}mbox{--}mathrm{Eu}^{3+}$ doped transparent glass ceramics containing GdSr 2 F 7 $mathrm{GdSr}_{2}mathrm{F}_{7}$ nanocrystals. Applied Physics A: Materials Science and Processing, 2013, 113, 41-46.	2.3	13
69	Fabrication, photoluminescence, and potential application in white light emitting diode of Dy3+â€“Tm3+ doped transparent glass ceramics containing GdSr2F7 nanocrystals. Applied Physics A: Materials Science and Processing, 2013, 112, 317-322.	2.3	33
70	Morphology and upconversion luminescence of NaYbF4:Tm3+ nanocrystals modified by Gd3+ ions. Journal of Alloys and Compounds, 2013, 562, 99-105.	5.5	24
71	Upconversion emission of SrYbF5:Er3+ nanosheets modified by Tm3+ ions. Journal of Rare Earths, 2013, 31, 1053-1058.	4.8	10
72	Controllable synthesis and down-conversion properties of flower-like NaY(MoO4)2 microcrystals via polyvinylpyrrolidone-mediated. Journal of Solid State Chemistry, 2013, 204, 266-271.	2.9	18

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73	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
74	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
75	Shape-controlled tunable homochromatic luminescence and inner photoelectric effect of hexagonal Na1.23Ca0.12Y1.28Er0.24F6 phosphors. Physical Chemistry Chemical Physics, 2012, 14, 7137.	2.8	15
76	Controlled synthesis and optical characterization of multifunctional ordered Y2O3â€‰:â€‰Er3+ porous pyramid arrays. Journal of Materials Chemistry, 2011, 21, 4251.	6.7	15
77	Ultraviolet and infrared photon-excited synergistic effect in Er^3+-doped YbF_3 phosphors. Optics Letters, 2011, 36, 4353.	3.3	32
78	Synthesis and blue to near-infrared quantum cutting of Pr3+/Yb3+ co-doped Li2TeO4 phosphors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1537-1540.	3.5	26
79	Thermal loading induced near-infrared broadband upconversion emission of Sm3+-doped Î²-NaYbF4 nano-phosphors. Journal of Luminescence, 2011, 131, 2325-2329.	3.1	19
80	Enhancement of blue emission in Î²-NaYbF4:Tm3+/Nd3+ nanophosphors synthesized by nonclosed hydrothermal synthesis method. Applied Physics B: Lasers and Optics, 2010, 101, 623-629.	2.2	31
81	Preparation and upconversion properties of Ba2ErF7 and Ba2ErF7:Yb3+ powders. Journal of Luminescence, 2010, 130, 38-44.	3.1	9
82	Î²-Na(Y1.5Na0.5)F6:Tm3+â€”A blue upconversion phosphor. Journal of Luminescence, 2009, 129, 325-327.	3.1	8
83	Preparation and photoluminescence properties of SrY2O4:Yb3+, Er3+ powders. Journal of Alloys and Compounds, 2009, 474, 424-427.	5.5	16
84	Upconversion properties of Nd3+â€“Yb3+â€“Ho3+-doped Î²-Na(Y1.5Na0.5)F6 powders. Journal of Alloys and Compounds, 2009, 477, 941-945.	5.5	23
85	Highly efficient cooperative up-conversion of Yb3+ in NaYF4. Journal of Materials Science, 2008, 43, 1354-1356.	3.7	24
86	Novel upconversion phenomenon of Nd3+ sensitized by Yb3+ in Nd3+â€“Yb3+-co-doped Î²-Na(Y1.5Na0.5)F6. Materials Letters, 2008, 62, 3865-3867.	2.6	8
87	Visible photon-avalanche upconversion in Ho^3+ singly doped Î²â^'Na(Y_15Na_05)F_6 under 980 nm excitation. Optics Letters, 2008, 33, 2653.	3.3	22
88	The fabrication and optical property of WLED encapsulated with the graded-index fluorescent glass film. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	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. Journal of the American Ceramic Society, 0, , .	3.8	3