

Qi Wang

List of Publications by Year in descending order

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51
papers

824
citations

471509

17
h-index

526287

27
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all docs

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docs citations

51
times ranked

776
citing authors

#	ARTICLE	IF	CITATIONS
1	No interference Reading for Optical Information Storage and Ultra-Multiple Anti-Counterfeiting Applications by Designing Targeted Recombination in Charge Carrier Trapping Phosphors. <i>Advanced Optical Materials</i> , 2019, 7, 1900006.	7.3	87
2	Broadband near-infrared emission enhancement in $K_2Ga_2Sn_6O_{16}:Cr^{3+}$ phosphor by electron-lattice coupling regulation. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5067-5075.	3.8	54
3	Broadband near-infrared emitting from $Li_{1.6}Zn_{1.6}Sn_{2.8}O_8:Cr^{3+}$ phosphor by two-site occupation and Al^{3+} cationic regulation. <i>Materials and Design</i> , 2020, 192, 108701.	7.0	44
4	High multi-photon visible upconversion emissions of Er^{3+} singly doped $BiOCl$ microcrystals: A photon avalanche of Er^{3+} induced by 980-nm excitation. <i>Applied Physics Letters</i> , 2013, 103, 231104.	3.3	41
5	Disentangling site occupancy, cation regulation, and oxidation state regulation of the broadband near infrared emission in a chromium-doped $SrGa_4O_7$ phosphor. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2313-2321.	6.0	41
6	Efficient near-infrared to visible and ultraviolet upconversion in polycrystalline $BiOCl:Er^{3+}/Yb^{3+}$ synthesized at low temperature. <i>Ceramics International</i> , 2013, 39, 8911-8916.	4.8	40
7	Effect of topological structure on photoluminescence of $CsPbBr_3$ quantum dot doped glasses. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154111.	5.5	39
8	Silver nanoparticles enhanced luminescence and stability of $CsPbBr_3$ perovskite quantum dots in borosilicate glass. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2463-2470.	3.8	37
9	NIR-excited all-inorganic perovskite quantum dots ($CsPbBr_3$) for a white light-emitting device. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3751-3755.	5.5	34
10	Crystal structure insight aided design of $SrGa_2Si_2O_8:Mn^{2+}$ with multi-band and thermally stable emission for high-power LED applications. <i>Chemical Engineering Journal</i> , 2019, 375, 122016.	12.7	32
11	The synthesis of a perovskite $CsPbBr_3$ quantum dot superlattice in borosilicate glass. <i>Chemical Communications</i> , 2020, 56, 4460-4463.	4.1	30
12	Thermally stable photoluminescence and long persistent luminescence of $Ca_3Ga_4O_9:Tb^{3+}/Zn^{2+}$. <i>Journal of Rare Earths</i> , 2018, 36, 675-679.	4.8	27
13	Role of oxygen vacancies in long persistent phosphor $Ca_2Ga_2GeO_7:Zn^{2+}$. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2695-2700.	3.8	21
14	Insights into anti-thermal quenching of photoluminescence from $SrCaGa_4O_8$ based on defect state and application in temperature sensing. <i>Journal of Luminescence</i> , 2019, 208, 284-289.	3.1	21
15	Warm white light emitting from single composition $SrGa_{12}O_{19}:Dy^{3+}$ phosphors for AC-LED. <i>Journal of the American Ceramic Society</i> , 2020, 103, 335-345.	3.8	21
16	Novel organic-inorganic hybrid powder $SrGa_{12}O_{19}:Mn^{2+}$ ethyl cellulose for efficient latent fingerprint recognition via time-gated fluorescence. <i>RSC Advances</i> , 2020, 10, 8233-8243.	3.6	18
17	The influence of alkali ions size on the superbroadband NIR emission from bismuth-doped alkali aluminoborophosphosilicate glasses. <i>Optical Materials</i> , 2012, 35, 61-64.	3.6	17
18	Determination of trace rhodamine B by spectrofluorometry and magnetic solid phase extraction based on a 3D reduced graphene oxide composite. <i>Analytical Methods</i> , 2017, 9, 5433-5440.	2.7	16

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19	Abnormally heat-enhanced Yb excited state lifetimes in Bi7F11O5 nanocrystals and the potential applications in lifetime luminescence nanothermometry. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13811-13817.	5.5	16
20	Enhancement of Tb ³⁺ quantum cutting emission by inverse opal photonic crystals. <i>Optical Materials</i> , 2016, 54, 229-233.	3.6	15
21	Intense one-band near-infrared upconversion luminescence induced by using spontaneous polarization BiOCl sheet crystals as hosts for Yb ³⁺ and Tm ³⁺ ions. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 612-620.	6.0	15
22	Effects of Er ³⁺ doping on the long-persistent luminescence properties of Ba4(Si3O8)2:Eu ²⁺ phosphor. <i>Optical Materials</i> , 2014, 36, 1826-1829.	3.6	14
23	An orange-emitting phosphor BaSrGa ₄ O ₈ :Bi ³⁺ ,K ⁺ with unique one-dimensional chain structure for high index color WLEDs. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6075-6080.	3.8	12
24	Fabrication of sea urchin-like Au@SiO ₂ nanoparticles SERS substrate for the determination of malachite green in tilapia. <i>Vibrational Spectroscopy</i> , 2022, 118, 103319.	2.2	12
25	Study on the effect of apatite structure on spectroscopic properties of bismuth activated alkaline earth metal chlorophosphate [M5(PO4)3Cl; M=Ca, Sr and Ba]. <i>Materials Chemistry and Physics</i> , 2013, 139, 220-224.	4.0	10
26	Preparation and characterization of Er ³⁺ -Yb ³⁺ -Ce ³⁺ co-doped transparent glass ceramic containing nano Ca5(PO4)3F crystals. <i>Journal of Rare Earths</i> , 2013, 31, 400-404.	4.8	10
27	Intense single-band red upconversion emission in BiOCl:Er ³⁺ layered semiconductor via co-doping Ho ³⁺ . <i>Journal of Rare Earths</i> , 2020, 38, 577-583.	4.8	10
28	Green long-after-glow luminescence of Tb ³⁺ in Sr ₂ SiO ₄ . <i>Chinese Physics B</i> , 2014, 23, 064211.	1.4	9
29	Enhancement of NIR emission based on energy transfer process of Ce ³⁺ -Yb ³⁺ in inverse opal photonic crystals. <i>Journal of the American Ceramic Society</i> , 2016, 99, 911-916.	3.8	9
30	Effect of TiO ₂ on glass structure control of self-crystallized Ba2LaF7 glass-ceramics. <i>Ceramics International</i> , 2020, 46, 14173-14177.	4.8	9
31	Enhanced NIR downconversion luminescence by precipitating nano Ca5(PO4)3F crystals in Eu ²⁺ -Yb ³⁺ co-doped glass. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 114, 575-578.	3.9	8
32	Determination of trace rutin based on the surface plasmon resonance absorption of silver nanoparticles. <i>Analytical Methods</i> , 2014, 6, 2751.	2.7	8
33	Thermal engineering of electron-trapping materials for "Smart-Write-In" optical data storage. <i>Chemical Engineering Journal</i> , 2021, 420, 129788.	12.7	8
34	Significantly enhanced superbroadband NIR emission in bismuth-doped calcium aluminophosphosilicate glasses by PbO substitution. <i>Materials Research Bulletin</i> , 2013, 48, 260-263.	5.2	6
35	Effects of Yb ₂ O ₃ on the NIR emission performance of Bi ³⁺ -Yb ³⁺ codoped aluminophosphosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2014, 383, 169-172.	3.1	6
36	Broadband orange emission from Bi activated calcium fluorophosphate. <i>Materials Research Bulletin</i> , 2014, 50, 490-493.	5.2	6

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37	Interaction of polyphenols and Ag on the surface plasmon resonance absorption and resonance Rayleigh scattering spectra. <i>Vibrational Spectroscopy</i> , 2020, 107, 103037.	2.2	5
38	Multimode Highly Tunable Photoluminescence of Eu ³⁺ Ions Induced by Surface Photovoltage of Bi ₉ V ₂ O ₁₈ Cl Perovskite Oxychloride Nanosheets and Application for Advanced Anticounterfeiting Agents. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27811-27819.	3.1	4
39	Energy transfer and visible-infrared quantum cutting photoluminescence modification in Tm-Yb codoped YPO ₄ inverse opal photonic crystals. <i>Applied Optics</i> , 2015, 54, 6827.	2.1	3
40	$\text{La}_{1-x}\text{Na}_x\text{YF}_4:\text{Nd}^{3+}$ Nanocrystal with Near-Infrared to Near-Infrared Luminescence for Bioimaging Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 3910-3913.	0.9	2
41	Enhancement of the near-infrared emission in novel quantum cutting SiO ₂ :Tb ³⁺ , Yb ³⁺ thin films by Ag species. <i>Optical Materials Express</i> , 2016, 6, 1065.	3.0	2
42	Down-Conversion Energy Transfer Enhancement in Ce ³⁺ , Nd ³⁺ -Doped Yttrium Aluminum Garnet Photonic Crystals. <i>Science of Advanced Materials</i> , 2017, 9, 649-653.	0.7	2
43	Determination of total sugar content in <i>Siraitia grosvenorii</i> by near infrared diffuse reflectance spectroscopy with wavelength selection techniques. <i>Journal of Food Measurement and Characterization</i> , 2019, 13, 2713-2721.	3.2	1
44	Enhanced one-band near infrared upconversion luminescence of Yb ³⁺ -Tm ³⁺ co-doped BiOCl _{1-x} Br _x nanosheet by tuning band gap. <i>Journal of Luminescence</i> , 2021, 238, 118295.	3.1	1
45	Locking Energy Transfer of Rare Earth Ions via an Electron-Jam-Caused by Vertical Photocarrier Separation of a Layered Semiconductor. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	1
46	Study on the Interaction between Cadmium Sulphide Nanoparticles and Proteins by Resonance Rayleigh Scattering Spectra. <i>Journal of Chemistry</i> , 2013, 2013, 1-7.	1.9	0
47	Response to "Comment on 'High multi-photon visible upconversion emissions of Er ³⁺ singly doped BiOCl microcrystals: A photon avalanche of Er ³⁺ induced by 980-nm excitation'" [Appl. Phys. Lett. 104, 236101 (2014)]. <i>Applied Physics Letters</i> , 2014, 104, 236102.	3.3	0
48	Color Tunable and Upconversion Luminescence in Yb-Tm Co-Doped Yttrium Phosphate Inverse Opal Photonic Crystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 3739-3743.	0.9	0
49	Enhancement of Tb-Yb quantum cutting luminescence with Ag nanostructures and photonic crystals. <i>Optical Materials</i> , 2020, 109, 110421.	3.6	0
50	Downshifting energy transfer enhancement in Ce ³⁺ , Er ³⁺ -codoped YAG photonic crystals. <i>Optical Materials</i> , 2021, 122, 111709.	3.6	0
51	Effects of self-reduction of glass matrix on the broadband near infrared emissions from Bi-doped alkali earth aluminoborosilicate glasses. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 117801.	0.5	0