Wenge Xiao

List of Publications by Year in descending order

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22 papers	1,491 citations	567144 15 h-index	713332 21 g-index
23 all docs	23 docs citations	23 times ranked	1090 citing authors

#	Article	IF	Citations
1	An Extraâ€Broadband VISâ€NIR Emitting Phosphor toward Multifunctional LED Applications. Advanced Functional Materials, 2022, 32, .	7.8	59
2	Glassâ€Crystallized Luminescence Translucent Ceramics toward Highâ€Performance Broadband NIR LEDs. Advanced Science, 2022, 9, e2105713.	5.6	46
3	An Extraâ€Broadband VISâ€NIR Emitting Phosphor toward Multifunctional LED Applications (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /	7.8	0
4	Efficient, Stable, and Ultraâ€Broadband Nearâ€Infrared Garnet Phosphors for Miniaturized Optical Applications. Advanced Optical Materials, 2022, 10, .	3.6	40
5	Highâ€Power Broadband NIR LEDs Enabled by Highly Efficient Blueâ€toâ€NIR Conversion. Advanced Optical Materials, 2021, 9, 2001660.	3.6	70
6	Nearâ€Unity and Zeroâ€Thermalâ€Quenching Farâ€Redâ€Emitting Composite Ceramics via Pressureless Glass Crystallization. Laser and Photonics Reviews, 2021, 15, 2100060.	4.4	37
7	Highly Efficient and Tunable Emission of Leadâ€Free Manganese Halides toward White Lightâ€Emitting Diode and Xâ€Ray Scintillation Applications. Advanced Functional Materials, 2021, 31, 2009973.	7.8	160
8	Highly efficient phosphor-glass composites by pressureless sintering. Nature Communications, 2020, 11, 2805.	5.8	129
9	Low-dose real-time X-ray imaging with nontoxic double perovskite scintillators. Light: Science and Applications, 2020, 9, 112.	7.7	272
10	Broadband Nearâ€Infrared Garnet Phosphors with Nearâ€Unity Internal Quantum Efficiency. Advanced Optical Materials, 2020, 8, 2000296.	3.6	189
11	Understanding Near Infrared Laser Driven Continuum White Light Emission by Graphene and Its Mixture with an Oxide Phosphor. Advanced Optical Materials, 2019, 7, 1900899.	3.6	12
12	Realizing Visible Light Excitation of Tb³⁺ via Highly Efficient Energy Transfer from Ce³⁺ for LEDâ€Based Applications. Advanced Optical Materials, 2019, 7, 1801677.	3.6	53
13	Efficient Visible-to-NIR Spectral Conversion for Polycrystalline Si Solar Cells and Revisiting the Energy Transfer Mechanism from Ce³⁺ to Yb³⁺ in Lu₃Al₅O₁₂ Host. Inorganic Chemistry, 2019, 58, 234-242.	1.9	10
14	A highly efficient and thermally stable green phosphor (Lu₂SrAl₄SiO₁₂:Ce³⁺) for full-spectrum white LEDs. Journal of Materials Chemistry C, 2018, 6, 12159-12163.	2.7	73
15	Cooperative Upconversion Luminescence Properties of Yb³⁺ and Tb³⁺ Heavily Codoped Silicate Garnet Obtained by Multiple Chemical Unit Cosubstitution. Journal of Physical Chemistry C, 2017, 121, 2998-3006.	1.5	15
16	The dominant role of excitation diffusion in energy transfer upconversion of Lu2O3: Tm3+, Yb3+. Journal of Alloys and Compounds, 2017, 704, 206-211.	2.8	7
17	Enhanced emission of Tm3+:3F4Ââ†'Â3H6 transition by backward energy transfer from Yb3+ in Y2O3 for mid-infrared applications. Journal of Alloys and Compounds, 2017, 722, 48-53.	2.8	8
18	Highly Efficient Green-Emitting Phosphors Ba₂Y₅B₅O₁₇ with Low Thermal Quenching Due to Fast Energy Transfer from Ce³⁺ to Tb³⁺. Inorganic Chemistry, 2017, 56, 4538-4544.	1.9	93

#	Article	IF	Citations
19	Simultaneously tuning the emission color and improving thermal stability via energy transfer in apatite-type phosphors. Journal of Materials Chemistry C, 2017, 5, 11910-11919.	2.7	55
20	The Inductive Effect of Neighboring Cations in Tuning Luminescence Properties of the Solid Solution Phosphors. Inorganic Chemistry, 2017, 56, 9938-9945.	1.9	20
21	Photoluminescence and charge compensation effects in Lu3MgyAl5â^'â^'Si O12:Ce3+ phosphors for white LEDs. Journal of Alloys and Compounds, 2017, 695, 567-573.	2.8	6
22	Blue-Emitting K₂Al₂B₂O₇:Eu²⁺ Phosphor with High Thermal Stability and High Color Purity for Near-UV-Pumped White Light-Emitting Diodes. Inorganic Chemistry, 2015, 54, 3189-3195.	1.9	137