Mu-Huai Fang

List of Publications by Year
in descending order

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43 papers	3,370 citations	172207 29 h-index	253896 43 g-index
43 all docs	43 docs citations	43 times ranked	1442 citing authors

#	Article	IF	Citations
1	Super Broadband Near-Infrared Phosphors with High Radiant Flux as Future Light Sources for Spectroscopy Applications. ACS Energy Letters, 2018, 3, 2679-2684.	8.8	286
2	Narrow Red Emission Band Fluoride Phosphor KNaSiF₆:Mn⁴⁺ for Warm White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 11194-11203.	4.0	228
3	Enhanced Photoluminescence Emission and Thermal Stability from Introduced Cation Disorder in Phosphors. Journal of the American Chemical Society, 2017, 139, 11766-11770.	6.6	190
4	Synthesis of Na₂SiF₆:Mn⁴⁺ red phosphors for white LED applications by co-precipitation. Journal of Materials Chemistry C, 2014, 2, 10268-10272.	2.7	187
5	A low-temperature co-precipitation approach to synthesize fluoride phosphors K₂MF₆:Mn⁴⁺ (M = Ge, Si) for white LED applications. Journal of Materials Chemistry C, 2015, 3, 1655-1660.	2.7	182
6	High Color Rendering Index of Rb₂GeF₆:Mn⁴⁺ for Light-Emitting Diodes. Chemistry of Materials, 2017, 29, 935-939.	3.2	172
7	Evolutionary Generation of Phosphor Materials and Their Progress in Future Applications for Light-Emitting Diodes. Chemical Reviews, 2022, 122, 11474-11513.	23.0	167
8	Penetrating Biological Tissue Using Light-Emitting Diodes with a Highly Efficient Near-Infrared ScBO₃:Cr³⁺ Phosphor. Chemistry of Materials, 2020, 32, 2166-2171.	3.2	142
9	Photoluminescent Evolution Induced by Structural Transformation Through Thermal Treating in the Red Narrow-Band Phosphor K₂GeF₆:Mn⁴⁺. ACS Applied Materials & Interfaces, 2015, 7, 10656-10659.	4.0	133
10	Chromium Ion Pair Luminescence: A Strategy in Broadband Near-Infrared Light-Emitting Diode Design. Journal of the American Chemical Society, 2021, 143, 19058-19066.	6.6	125
11	Control of Narrow-Band Emission in Phosphor Materials for Application in Light-Emitting Diodes. ACS Energy Letters, 2018, 3, 2573-2586.	8.8	118
12	Ultra-high-efficiency near-infrared Ga₂O₃:Cr³⁺ phosphor and controlling of phytochrome. Journal of Materials Chemistry C, 2020, 8, 11013-11017.	2.7	111
13	Hidden Structural Evolution and Bond Valence Control in Near-Infrared Phosphors for Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 109-114.	8.8	110
14	[INVITED] Near-infrared phosphors and their full potential: A review on practical applications and future perspectives. Journal of Luminescence, 2020, 219, 116944.	1.5	105
15	Preparation of a novel red Rb₂SiF₆:Mn⁴⁺phosphor with high thermal stability through a simple one-step approach. Journal of Materials Chemistry C, 2015, 3, 7277-7280.	2.7	98
16	Control of Luminescence by Tuning of Crystal Symmetry and Local Structure in Mn⁴⁺â€Activated Narrow Band Fluoride Phosphors. Angewandte Chemie - International Edition, 2018, 57, 1797-1801.	7.2	93
17	Enhance Color Rendering Index via Full Spectrum Employing the Important Key of Cyan Phosphor. ACS Applied Materials & Interfaces, 2016, 8, 30677-30682.	4.0	85
18	Chromium(III)-Doped Fluoride Phosphors with Broadband Infrared Emission for Light-Emitting Diodes. Inorganic Chemistry, 2020, 59, 376-385.	1.9	84

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19	Integrated Surface Modification to Enhance the Luminescence Properties of K₂TiF₆:Mn⁴⁺ Phosphor and Its Application in White-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 29233-29237.	4.0	74
20	Recent Developments in Leadâ€Free Double Perovskites: Structure, Doping, and Applications. Chemistry - an Asian Journal, 2020, 15, 242-252.	1.7	74
21	Critical Reviewâ€"Narrow-Band Emission of Nitride Phosphors for Light-Emitting Diodes: Perspectives and Opportunities. ECS Journal of Solid State Science and Technology, 2018, 7, R3111-R3133.	0.9	62
22	Controlling of Structural Ordering and Rigidity of Î²-SiAlON:Eu through Chemical Cosubstitution to Approach Narrow-Band-Emission for Light-Emitting Diodes Application. Chemistry of Materials, 2017, 29, 6781-6792.	3.2	57
23	Structural Evolution and Effect of the Neighboring Cation on the Photoluminescence of Sr(LiAl₃)_{1â"x}(SiMg₃)_xN₄:Eu²⁺ Phosphors. Angewandte Chemie - International Edition, 2019, 58, 7767-7772.	2.2	57
24	Cuboid-Size-Controlled Color-Tunable Eu-Doped Alkaliâ€"Lithosilicate Phosphors. Chemistry of Materials, 2020, 32, 1748-1759.	3.2	56
25	Aluminate Red Phosphor in Light-Emitting Diodes: Theoretical Calculations, Charge Varieties, and High-Pressure Luminescence Analysis. ACS Applied Materials & Interfaces, 2017, 9, 23995-24004.	4.0	49
26	Ultrafast Self-Crystallization of High-External-Quantum-Efficient Fluoride Phosphors for Warm White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 17508-17511.	4.0	43
27	Multi-Site Cation Control of Ultra-Broadband Near-Infrared Phosphors for Application in Light-Emitting Diodes. Inorganic Chemistry, 2020, 59, 15101-15110.	1.9	42
28	Surface-Protected High-Efficiency Nanophosphors via Space-Limited Ship-in-a-Bottle Synthesis for Broadband Near-Infrared Mini-Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 659-664.	8.8	38
29	Chemical Control of SrLi(Al_{1â€"x}Ga_x)₃N₄:Eu²⁺ Red Phosphors at Extreme Conditions for Application in Light-Emitting Diodes. Chemistry of Materials, 2019, 31, 4614-4618.	3.2	37
30	High-Performance NaK₂Li[Li₃SiO₄]₄:Eu Green Phosphor for Backlighting Light-Emitting Diodes. Chemistry of Materials, 2021, 33, 1893-1899.	3.2	31
31	Pressure-controlled synthesis of high-performance SrLiAl₃N₄:Eu²⁺ narrow-band red phosphors. Journal of Materials Chemistry C, 2018, 6, 10174-10178.	2.7	25
32	Chemical and Mechanical Pressure-Induced Photoluminescence Tuning via Structural Evolution and Hydrostatic Pressure. Chemistry of Materials, 2021, 33, 3832-3840.	3.2	20
33	Hydrogen-Containing Na3HTi1â€"xMnxF8 Narrow-Band Phosphor for Light-Emitting Diodes. ACS Energy Letters, 2019, 4, 527-533.	8.8	16
34	Broadband NaK₂Li[Li₃SiO₄]₄:Ce Alkali Lithosilicate Blue Phosphors. Journal of Physical Chemistry Letters, 2020, 11, 6621-6625.	2.1	14
35	Correlated Na⁺ Ion Migration Invokes Zero Thermal Quenching in a Sodium Superionic Conductor-type Phosphor. Chemistry of Materials, 2022, 34, 107-115.	3.2	13
36	Control of Luminescence by Tuning of Crystal Symmetry and Local Structure in Mn⁴⁺â€Activated Narrow Band Fluoride Phosphors. Angewandte Chemie, 2018, 130, 1815-1819.	1.6	9

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37	Systematic treatment and evaluation of nitride phosphor with hybrid layer modification against moisture degradation. Chemical Engineering Journal, 2022, 430, 132789.	6.6	9
38	Formation and Near-Infrared Emission of CsPbI₃ Nanoparticles Embedded in Cs₄PbI₆ Crystals. ACS Applied Materials & Interfaces, 2021, 13, 34742-34751.	4.0	8
39	Linking Macro- and Micro-structural Analysis with Luminescence Control in Oxynitride Phosphors for Light-Emitting Diodes. Chemistry of Materials, 2021, 33, 7897-7904.	3.2	8
40	Structural Evolution and Effect of the Neighboring Cation on the Photoluminescence of Sr(LiAl 3) 1â^' x (SiMg 3) x N 4 :Eu 2+ Phosphors. Angewandte Chemie, 2019, 131, 7849-7854.	1.6	6
41	Synergetic effect-triggered performance promotion of Sr3â^'xBaxP5N10Cl:Eu2+ phosphors. Journal of Materials Chemistry C, 2021, 9, 12063-12067.	2.7	3
42	Nanosized-Fe 3 PtN supported on nitrogen-doped carbon as electro-catalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 15761-15769.	3.8	2
43	Dual-emission Eu-doped Ca2â^'xSrxPN3 nitridophosphate phosphors prepared by hot isostatic press. Journal of Materials Chemistry C, 2021, 9, 8158-8162.	2.7	1