Le Wang

List of Publications by Year
in descending order

42	3,866	147801 31	265206 42
papers	citations	h-index	g-index

42	42	42	2113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sandwich structured phosphor-in-glass films enabling laser lighting with superior optical properties. Ceramics International, 2022, 48, 13626-13633.	4.8	10
2	Passivation Layer of Potassium Iodide Yielding High Efficiency and Stable Deep Red Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 16404-16412.	8.0	17
3	Thermally Robust Orangeâ€Redâ€Emitting Color Converters for Laserâ€Driven Warm White Light with High Overall Optical Properties. Laser and Photonics Reviews, 2022, 16, .	8.7	32
4	Microscale Perovskite Quantum Dot Lightâ€Emitting Diodes (Microâ€PeLEDs) for Fullâ€Color Displays. Advanced Optical Materials, 2022, 10, .	7.3	17
5	Bi-color phosphor-in-glass films achieve superior color quality laser-driven stage spotlights. Chemical Engineering Journal, 2022, 444, 136591.	12.7	32
6	Ternary solid solution phosphors Ca1−Li Al1−Si1++N3-O :Ce3+ with enhanced thermal stability for high-power laser lighting. Chemical Engineering Journal, 2021, 404, 126575.	12.7	45
7	Transparent YAG:Ce ceramic with designed low light scattering for high-power blue LED and LD applications. Journal of the European Ceramic Society, 2021, 41, 735-740.	5.7	57
8	Unraveling the Luminescence Quenching of Phosphors under High-Power-Density Excitation. Acta Materialia, 2021, 209, 116813.	7.9	31
9	Large-scale room-temperature synthesis of high-efficiency lead-free perovskite derivative (NH4)2SnCl6:Te phosphor for warm wLEDs. Chemical Engineering Journal, 2021, 420, 129740.	12.7	42
10	Synthesis and upâ€conversion of Er 3+ and Yb 3+ Coâ€doped LiY(MoO 4) 2 @SiO 2 for optical thermometry applications. Journal of the American Ceramic Society, 2020, 103, 1046-1056.	3.8	8
11	Realizing high-brightness and ultra-wide-color-gamut laser-driven backlighting by using laminated phosphor-in-glass (PiG) films. Journal of Materials Chemistry C, 2020, 8, 1746-1754.	5.5	49
12	Broadband near-infrared (NIR) emission realized by the crystal-field engineering of Y_{3â^'x}Ca_xAl_{5â^'x}Si_xO₁₂:Cr³⁺(x=	5.5	0 0 0 rg
13	An optimal spectral model for phosphorâ€converted white lightâ€emitting diodes used in the mesopic vision. Journal of the American Ceramic Society, 2019, 102, 260-266.	3.8	6
14	A Facile Synthesis of Waterâ€Resistant CsPbBr₃ Perovskite Quantum Dots Loaded Poly(methyl methacrylate) Composite Microspheres Based on In Situ Polymerization. Advanced Optical Materials, 2019, 7, 1901075.	7.3	40
15	Two-Site Occupation for Exploring Ultra-Broadband Near-Infrared Phosphorâ€”Double-Perovskite La₂MgZrO₆:Cr³⁺. Chemistry of Materials, 2019, 31, 5245-5253.	6.7	357
16	Unique Design Strategy for Laserâ€Driven Color Converters Enabling Superhighâ€Luminance and Highâ€Directionality White Light. Laser and Photonics Reviews, 2019, 13, 1900147.	8.7	93
17	A search for extra-high brightness laser-driven color converters by investigating thermally-induced luminance saturation. Journal of Materials Chemistry C, 2019, 7, 11449-11456.	5.5	90
18	Structure, luminescence and energy transfer in Ce³⁺ and Mn²⁺ codoped Î³-AlON phosphors. Journal of Materials Chemistry C, 2019, 7, 733-742.	5.5	66

#	Article	IF	Citations
19	A Thermally Robust La₃Si₆N₁₁:Ceâ€inâ€Glass Film for Highâ€Brightness Blueâ€Laserâ€Driven Solid State Lighting. Laser and Photonics Reviews, 2019, 13, 1800216.	8.7	86
20	On the luminance saturation of phosphor-in-glass (PiG) films for blue-laser-driven white lighting: Effects of the phosphor content and the film thickness. Journal of the European Ceramic Society, 2019, 39, 1909-1917.	5.7	62
21	Achieving deep-red-to-near-infrared emissions in Sn-doped Cuâ€“Inâ€“S/ZnS quantum dots for red-enhanced white LEDs and near-infrared LEDs. Nanoscale, 2018, 10, 9788-9795.	5.6	23
22	Unique Color Converter Architecture Enabling Phosphor-in-Glass (PiG) Films Suitable for High-Power and High-Luminance Laser-Driven White Lighting. ACS Applied Materials & Interfaces, 2018, 10, 14930-14940.	8.0	177
23	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. Chemical Reviews, 2018, 118, 1951-2009.	47.7	598
24	Composition-dependent thermal degradation of red-emitting (Ca_{1â^'x}Sr_x)AlSiN₃:Eu²⁺ phosphors for high color rendering white LEDs. Journal of Materials Chemistry C, 2018, 6, 890-898.	5.5	41
25	Achieving High Quantum Efficiency Narrow-Band Î²-Sialon:Eu²⁺ Phosphors for High-Brightness LCD Backlights by Reducing the Eu³⁺ Luminescence Killer. Chemistry of Materials, 2018, 30, 494-505.	6.7	250
26	Improved stability of CsPbBr₃ perovskite quantum dots achieved by suppressing interligand proton transfer and applying a polystyrene coating. Nanoscale, 2018, 10, 21441-21450.	5.6	75
27	Color Conversion Materials for Highâ€Brightness Laserâ€Driven Solidâ€State Lighting. Laser and Photonics Reviews, 2018, 12, 1800173.	8.7	239
28	A robust red-emitting phosphor-in-glass (PiG) for use in white lighting sources pumped by blue laser diodes. Journal of Alloys and Compounds, 2017, 702, 193-198.	5.5	97
29	Combined control of the cation and anion to make ZnSnON thin films for visible-light phototransistors with high responsivity. Journal of Materials Chemistry C, 2017, 5, 6480-6487.	5.5	12
30	Realizing superior white LEDs with both high R9 and luminous efficacy by using dual red phosphors. RSC Advances, 2017, 7, 25964-25968.	3.6	40
31	Structural evolutions and significantly reduced thermal degradation of red-emitting Sr₂Si₅N₈:Eu²⁺via carbon doping. Journal of Materials Chemistry C, 2017, 5, 8927-8935.	5.5	35
32	Discovery of the Yb²⁺â€“Yb³⁺ couple as red-to-NIR persistent luminescence emitters in Yb-activated (Ba_{1â^'x}Sr_x)AlSi₅O₂N₇ phosphors. Journal of Materials Chemistry C, 2017, 5, 7095-7101.	5.5	33
33	Ca1â^'xLixAl1â^'xSi1+xN3:Eu2+ solid solutions as broadband, color-tunable and thermally robust red phosphors for superior color rendition white light-emitting diodes. Light: Science and Applications, 2016, 5, e16155-e16155.	16.6	186
34	CaAlSiN₃:Eu²⁺ translucent ceramic: a promising robust and efficient red color converter for solid state laser displays and lighting. Journal of Materials Chemistry C, 2016, 4, 8197-8205.	5.5	115
35	Crystal structure, tunable emission and applications of Ca_{1â^'x}Al_{1â^'x}Si_{1+x}N_{3â^'x}O_x:RE (x = 0â€“0.22,) Tj ETQq1 1 0.7843 Journal of Materials Chemistry C, 2016, 4, 11219-11230.	5.5	61
36	Extra-Broad Band Orange-Emitting Ce³⁺-Doped Y₃Si₅N₉O Phosphor for Solid-State Lighting: Electronic, Crystal Structures and Luminescence Properties. Chemistry of Materials, 2016, 28, 4829-4839.	6.7	105

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37	Moisture-induced degradation and its mechanism of (Sr,Ca)AlSiN₃:Eu²⁺, a red-color-converter for solid state lighting. Journal of Materials Chemistry C, 2015, 3, 3181-3188.	5.5	75
38	Strong Energy-Transfer-Induced Enhancement of Luminescence Efficiency of Eu²⁺- and Mn²⁺-Codoped Gamma-AlON for Near-UV-LED-Pumped Solid State Lighting. Inorganic Chemistry, 2015, 54, 5556-5565.	4.0	51
39	Europium(<scp>ii</scp>)-activated oxonitridosilicate yellow phosphor with excellent quantum efficiency and thermal stability â€“ a robust spectral conversion material for highly efficient and reliable white LEDs. Physical Chemistry Chemical Physics, 2015, 17, 15797-15804.	2.8	17
40	Highly efficient narrow-band green and red phosphors enabling wider color-gamut LED backlight for more brilliant displays. Optics Express, 2015, 23, 28707.	3.4	150
41	Î²-Sialon:Eu phosphor-in-glass: a robust green color converter for high power blue laser lighting. Journal of Materials Chemistry C, 2015, 3, 10761-10766.	5.5	115
42	Structure, Luminescence, and Application of a Robust Carbidonitride Blue Phosphor (Al_{1â€“x}Si_xC_xN_{1â€“x}:Eu²⁺) for Near UV-LED Driven Solid State Lighting. Chemistry of Materials, 2015, 27, 8457-8466.	6.7	75