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Mn²⁺ and Mn⁴⁺ red phosphors: synthesis, luminescence and applications in WLEDs. A review

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#	Paper	IF	Citations
431	Efficient rare-earth free red-emitting CaYSbO:Mn,M(M = Li, Na, K, Mg) phosphors for white light-emitting diodes. 2018 , 47, 6528-6537		81
430	Enhanced green upconversion luminescence properties of Er ³⁺ /Yb ³⁺ co-doped strontium gadolinium silicate oxyapatite phosphor. 2018 , 44, 13852-13857		9
429	"Two-in-one" organic-inorganic hybrid Mn complexes exhibiting dual-emissive phosphorescence. 2018 , 47, 7306-7315		37
428	Preparation, characterization and luminescent properties of red-emitting phosphor: LiLa ₂ NbO ₆ doped with Mn ⁴⁺ ions. 2018 , 755, 61-66		43
427	Broad-band emission of A ₃ B ₂ B ₂ O ₉ complex perovskites (A = Ba, Sr; B ₁ = Zn; B ₂ = Ta, Nb) realized by structural variations of the B site order/disorder. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12566-12574 ¹		9
426	Highly efficient rare-earth-free deep red emitting phosphor La ₂ Li _{1-x} Sb _{1-x} O ₆ :xMn ⁴⁺ ,yMg ²⁺ : application in high-power warm w-LEDs. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13305-13315	7.1	42
425	Color Conversion Materials for High-Brightness Laser-Driven Solid-State Lighting. 2018 , 12, 1800173		129
424	A Cerium Doped Scandate Broad Orange-Red Emission Phosphor and its Energy Transfer-Dependent Concentration and Thermal Quenching Character. 2018 , 57, 14542-14553		18
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417	Control of Narrow-Band Emission in Phosphor Materials for Application in Light-Emitting Diodes. 2018 , 3, 2573-2586		76
416	Narrow-band red-emitting KZnF ₃ :Mn ⁴⁺ fluoroperovskites: insights into electronic/vibronic transition and thermal quenching behavior. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10845-10854	7.1	23
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414	Luminescent Properties of a Cs ₃ AlF ₆ :Mn ⁴⁺ Red Phosphor for Warm White Light-Emitting Diodes. 2018 , 7, R149-R155		17
413	Synthesis and luminescence properties of transparent YVO ₄ : Eu ³⁺ phosphors. 2018 , 5, 116208		10
412	A novel CsNbOF:Mn oxyfluoride red phosphor for light-emitting diode devices. 2018 , 47, 16048-16056		51
411	Thermal quenching of Mn ⁴⁺ luminescence in Sn ⁴⁺ -containing garnet hosts. 2018 , 84, 600-605		8
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408	Ultrafast Self-Crystallization of High-External-Quantum-Efficient Fluoride Phosphors for Warm White Light-Emitting Diodes. 2018 , 10, 17508-17511		34
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- 381 Circularly Polarized Luminescence from Achiral Single Crystals of Hybrid Manganese Halides. **2019**, 141, 15755-15760 65
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