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## Research challenges to ultra-efficient inorganic solid-state lighting

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178	Advantages of III-nitride laser diodes in solid-state lighting. <b>2015</b> , 212, 980-985	53

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172	Warm-white light-emitting diode with high color rendering index fabricated by combining trichromatic InGaN emitter with single red phosphor. <b>2015</b> , 23, A232-9	14
171	Analysis of wide color gamut of green/red bilayered freestanding phosphor film-capped white LEDs for LCD backlight. <b>2015</b> , 23, A791-804	57
170	Synthesis and luminescence properties of KCaPO <sub>4</sub> :Eu <sup>2+</sup> ,Tb <sup>3+</sup> ,Mn <sup>2+</sup> for white-light-emitting diodes (WLED). <b>2015</b> , 33, 825-829	16
169	A novel coordination network of Tb(III) with 2-hydroxy-trimesic acid showing very intense photoluminescence. <b>2015</b> , 61, 60-63	10
168	Accurate control of chromaticity and spectra by feedback phosphor-coating. <b>2015</b> , 23, 11576-85	10
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164	Tunable photoluminescence and direct white-light emission in Mg-based coordination networks. <b>2015</b> , 51, 157-60	44
163	Red light emitting BaNb <sub>2</sub> O <sub>6</sub> :Eu <sup>3+</sup> phosphor for solid state lighting applications. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 622, 97-101	5-7 66
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159	Epitaxy, phase separation and band-edge emission of spontaneously formed InGaN nanorods. <b>2016</b> , 49, 355304		6
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152	Novel orange light emitting phosphor Sr <sub>9</sub> (Li, Na, K)Mg(PO <sub>4</sub> ) <sub>7</sub> : Eu <sup>2+</sup> excited by NUV light for white LEDs. <b>2016</b> , 120, 281-291		36
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150	The effect of co-doping ions on the luminescence properties and energy transfer of Ba <sub>1.8-3x/2-y-z</sub> Zn <sub>x</sub> Li <sub>0.4</sub> SiO <sub>4</sub> :xCe <sup>3+</sup> ,yMn <sup>2+</sup> phosphors. <b>2016</b> , 127, 11886-11892		1
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142	Incorporation Behaviors of In and Ga in the Two-Heater MOVPE Growth of InGaN Films. <b>2016</b> , 5, P335-P339		

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140	Rare-Earth-Free High-Efficiency Narrow-Band Red-Emitting Mg <sub>3</sub> Ga <sub>2</sub> GeO <sub>8</sub> :Mn <sup>4+</sup> Phosphor Excited by Near-UV Light for White-Light-Emitting Diodes. <b>2016</b> , 55, 154-62		139
139	Bridging the "green gap" of LEDs: giant light output enhancement and directional control of LEDs via embedded nano-void photonic crystals. <b>2016</b> , 8, 1192-9		22
138	Multi-color monolithic III-nitride light-emitting diodes: Factors controlling emission spectra and efficiency. <b>2016</b> , 213, 19-29		10
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135	Effect of Li <sup>+</sup> and Zn <sup>2+</sup> co-doping on PL properties of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> phosphor. <b>2016</b> , 127, 1871-1878		5
134	Optical Degradation Mechanisms of Indium Gallium Nitride-Based White Light Emitting Diodes by High-Temperature Aging Tests. <b>2016</b> , 65, 256-262		9
133	Direct white-light-emitting and near-infrared phosphorescence of zeolitic imidazolate framework-8. <b>2017</b> , 53, 1801-1804		73
132	Structure and photoluminescence properties of rare-earth free narrow-band red-emitting Mg <sub>6</sub> ZnGeGa <sub>2</sub> O <sub>12</sub> : Mn <sup>4+</sup> phosphor excited by NUV light. <b>2017</b> , 64, 445-452		7
131	Structural, thermal and optical investigations of Dy <sup>3+</sup> -doped B <sub>2</sub> O <sub>3</sub> -WO <sub>3</sub> -ZnO- $\lambda$ -Na <sub>2</sub> O glasses for warm white light emitting applications. <i>Journal of Luminescence</i> , <b>2017</b> , 186, 283-300	3.8	92
130	Optical design of freeform micro-optical elements and their fabrication combining maskless laser direct write lithography and replication by imprinting. <b>2017</b> , 7, 016002		4
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128	Controlled hydrothermal synthesis and luminescent properties of Y <sub>2</sub> WO <sub>6</sub> :Eu <sup>3+</sup> nanophosphors for light-emitting diodes. <b>2017</b> , 52, 3110-3123		29
127	Ultra-Efficient Solid-State Lighting: Likely Characteristics, Economic Benefits, Technological Approaches. <b>2017</b> , 11-28		2
126	Novel molybdenum based pyrochlore type red phosphors, NaGd <sub>1</sub> SnMoO <sub>7</sub> : xEu <sup>3+</sup> under near UV and blue excitation. <i>Journal of Luminescence</i> , <b>2017</b> , 190, 6-9	3.8	6
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116	Crystal Growth and Luminescence Properties of Dy <sup>3+</sup> and Ge <sup>4+</sup> Co-Doped Bi <sub>4</sub> Si <sub>3</sub> O <sub>12</sub> Single Crystals for High Power Warm White LED. <b>2017</b> , 7, 249	10
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113	White-light emission and tunable room temperature phosphorescence of dibenzothiophene. <b>2018</b> , 61, 397-401	30
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109	Ultrastable, cationic three-dimensional lead bromide frameworks that intrinsically emit broadband white-light. <b>2018</b> , 9, 1627-1633	42
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107	Unravelling radiative energy transfer in solid-state lighting. <b>2018</b> , 123, 023103	10
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103	Direct white-light emitting room-temperature-phosphorescence thin films with tunable two-color polarized emission through orientational hydrogen-bonding layer-by-layer assembly. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 4444-4449	7.1	27
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90	Luminescence of halophosphate solid-solution Ca <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> (F <sub>0.8</sub> Cl <sub>0.2</sub> ):Eu <sup>2+</sup> ,Mn <sup>2+</sup> for WLED. <b>2018</b> , 36, 1157-1161		5
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80	Characterization of InGaN quantum dots grown by metalorganic chemical vapor deposition. <b>2019</b> , 34, 125002		4
79	. <b>2019</b> , 37, 1225-1230		1
78	How to Design Quality Light Sources With Discrete Color Components. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 35-43		0.4
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66	Influence of deposition atmosphere on the structural and photoluminescence properties of pulsed laser deposited (Y <sub>0.5</sub> Gd) <sub>0.5</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> thin films. <b>2020</b> , 243, 122626		2
65	Realizing high-brightness and ultra-wide-color-gamut laser-driven backlighting by using laminated phosphor-in-glass (PiG) films. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1746-1754	7.1	24
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61	Wurtzite quantum well structures under high pressure. <b>2020</b> , 128, 050901		1
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56	A high efficacy and tunable white light-emitting diode cluster with both color fidelity and nonvisual performances close to natural lights. <b>2020</b> , 45, 1067-1075		
55	Local Structure Distortion Induced Broad Band Emission in the All-Inorganic BaScO <sub>2</sub> F:Eu <sup>2+</sup> Perovskite. <b>2020</b> , 32, 6640-6649		15
54	New whitlockite-type structure material Sr <sub>9</sub> Y(PO <sub>4</sub> ) <sub>7</sub> and its Eu <sup>2+</sup> doped green emission properties under NUV light. <i>Journal of Luminescence</i> , <b>2020</b> , 221, 117114	3.8	5
53	Luminescence properties of Ca <sub>2</sub> Sn <sub>2</sub> Al <sub>2</sub> O <sub>9</sub> : Mn as a long afterglow and field-emission displays material with high yellow color purity. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 824, 153931	5.7	7
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51	R/G/B Micro-LEDs for In-Pixel Integrated Arrays and Temperature Sensing. <b>2021</b> , 3, 3-10		5
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49	Learning from Mineral Structures toward New Luminescence Materials for Light-Emitting Diode Applications. <b>2021</b> , 33, 1083-1098		43
48	Unlocking the origin of compositional fluctuations in InGaN light emitting diodes. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	3
47	Performance improvement of green QW LEDs, for the different doping in the barriers, using InAlN interlayer and strain compensated AlGaN interlayer at the InGaN/GaN interface. <b>2021</b> , 113, 110863		1
46	The structure and photoluminescence properties of a novel yellow-green emission phosphor Ba <sub>3</sub> Sc <sub>2</sub> B <sub>4</sub> O <sub>12</sub> : Ce <sup>3+</sup> excited by NUV light. <i>Journal of Luminescence</i> , <b>2021</b> , 232, 117868	3.8	1
45	Phosphor converters for laser driven light sources. <b>2021</b> , 118, 210503		10
44	Stable CsPbBr <sub>3</sub> -Glass Nanocomposite for Low-Endue Wide-Color-Gamut Laser-Driven Projection Display. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2100044	8.3	17
43	Pr <sup>3+</sup> -doped B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -ZnO-NaF glasses comprising alkali/mixed alkali oxides for potential warm white light generation, blue laser, and E+S+C-optical bands amplification applications. <b>2021</b> ,		5
42	Potential substitutes for critical materials in white LEDs: Technological challenges and market opportunities. <b>2021</b> , 143, 110869		8
41	Laser regulation for variable color temperature lighting with low energy consumption by microlens arrays. <i>Applied Optics</i> , <b>2021</b> , 60, 5652-5661	1.7	1
40	Spontaneous-reduction and photoluminescence tuning in singly-doped Ba <sub>5-y</sub> Cay(PO <sub>4</sub> ) <sub>3</sub> Cl:Eu <sup>2+</sup> /Eu <sup>3+</sup> phosphors. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 869, 159277	5.7	1
39	Novel and wide-ranging color tuning photoluminescence properties of Tb <sup>3+</sup> /Eu <sup>3+</sup> doped garnet-type Li <sub>3</sub> Lu <sub>3</sub> Te <sub>2</sub> O <sub>12</sub> phosphor: Energy transfer and enhanced thermal stability. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 872, 159506	5.7	7
38	Enhancement of luminescence in Sr <sub>9</sub> MgK(PO <sub>4</sub> ) <sub>7</sub> :Eu <sup>2+</sup> phosphor by doping Ce <sup>3+</sup> ions for white LEDs. <i>Journal of Luminescence</i> , <b>2021</b> , 238, 118211	3.8	1
37	Structural, luminescence, energy transfer mechanism, and photometric properties of Sm <sup>3+</sup> -doped KYBO phosphors. <i>Radiation Physics and Chemistry</i> , <b>2022</b> , 190, 109791	2.5	0
36	Narrow-band red phosphors of high colour purity based on Eu <sup>3+</sup> -activated apatite-type Gd <sub>9.33</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> . <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 7474-7484	7.1	2
35	History of Solid-State Light Sources. <b>2017</b> , 1-30		1
34	Rational design and fabrication of surface tailored low dimensional Indium Gallium Nitride for photoelectrochemical water cleavage. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 8198-8222	6.7	4

33	Molecular dynamics studies of InGaN growth on nonpolar (112 $\bar{1}$ 0) GaN surfaces. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	7
32	Color temperature tunable phosphor-coated white LEDs with excellent photometric and colorimetric performances. <i>Applied Optics</i> , <b>2018</b> , 57, 9322-9327	1.7	9
31	High-efficiency cubic-phased blue-emitting BaLuBO:Ce phosphors for ultraviolet-excited white-light-emitting diodes. <i>Optics Letters</i> , <b>2018</b> , 43, 5138-5141	3	36
30	Simultaneously improve the luminous efficiency and color-rendering index of GaN-based white-light-emitting diodes using metal localized surface plasmon resonance. <i>Optics Letters</i> , <b>2019</b> , 44, 4155-4158	3	5
29	Up-Converting Lanthanide Ions Doped Fluoride Nanophosphors: Advances from Synthesis to Applications. <i>Indian Institute of Metals Series</i> , <b>2021</b> , 159-211	0.3	
28	III-Nitride Light-Emitting Devices. <i>Photonics</i> , <b>2021</b> , 8, 430	2.2	2
27	ZnO Nano-arrays on High Power Blue LED Chip for Enhanced Light Extraction Efficiency. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , <b>2012</b> , 27, 716-720	1	
26	History of Solid-State Light Sources. <b>2016</b> , 1-30		
25	Introduction. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 1-3	0.4	
24	White Light Emitting Phosphors for Solid State Lighting. <i>Advances in Chemical and Materials Engineering Book Series</i> , 150-250	0.2	
23	The deep red fluorescent transparent ceramics of Pr <sup>3+</sup> doped BaZr <sub>0.16</sub> Mg <sub>0.28</sub> Ta <sub>0.56</sub> O <sub>3</sub> based on 3P <sub>0</sub> -B <sub>F</sub> 2 transition. <i>Materials Research Bulletin</i> , <b>2021</b> , 148, 111667	5.1	
22	A highly efficient narrow-band blue phosphor of Bi <sup>3+</sup> -activated cubic borate Ba <sub>3</sub> Lu <sub>2</sub> B <sub>6</sub> O <sub>15</sub> towards backlight display applications. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134265	14.7	0
21	Luminescence properties of rare-earth-doped fluoride borate crystals. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 900, 163343	5.7	0
20	Dilute-As InGaNaNs/GaN Quantum Wells for High-Efficiency Red Emitters. <i>IEEE Journal of Quantum Electronics</i> , <b>2022</b> , 58, 1-6	2	0
19	Laser speckle reduction via TiO <sub>2</sub> -Sapphire Composite rotating wheel in laser projection. <i>Journal of the American Ceramic Society</i> ,	3.8	
18	Improvement of color rendering index of BGYR laser illuminants. <i>Optical Review</i> , 1	0.9	0
17	Charge compensated CaSr <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> :Sm <sup>3+</sup> , Li <sup>+</sup> /Na <sup>+</sup> /K <sup>+</sup> phosphor: Luminescence and thermometric studies. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 901, 163793	5.7	1
16	Novel Mn <sup>4+</sup> -activated Fluoride Red Phosphor Cs <sub>30</sub> (Nb <sub>2</sub> O <sub>2</sub> F <sub>9</sub> ) <sub>9</sub> (OH) <sub>3</sub> ·H <sub>2</sub> O:Mn <sup>4+</sup> With Good Waterproof Stability for WLEDs. <i>Journal of Materials Chemistry C</i> ,	7.1	1

15	Sunlike White Light-Emitting Diodes Based on Rare-Earth-Free Luminescent Materials.. <i>Materials</i> , <b>2022</b> , 15,	3.5	1
14	The Halide Perovskite Gain Media. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2022</b> , 21-61	0.4	
13	Recent Progress and Prospects on Metal Halide Perovskite Nanocrystals as Color Converters in the Fabrication of White Light-Emitting Diodes. <b>2022</b> , 2,		1
12	New red-emitting phosphor of Eu <sup>3+</sup> -doped Ba <sub>2</sub> Gd <sub>0.67</sub> W <sub>1-x</sub> MoxO <sub>6</sub> for solid state lighting. <i>Australian Journal of Chemistry</i> , <b>2022</b> ,	1.2	
11	A Hierarchical Structure Perovskite Quantum Dots Film for Laser-Driven Projection Display. 2210558		2
10	From lab to lamp: Understanding downconverter degradation in LED packages. <b>2022</b> , 132, 190901		0
9	Investigation into the stability condition of correlated color temperature of white illumination sources based on trichromatic light-emitting diodes. <b>2023</b> , 76, 102358		0
8	Excitation-Dependent Tunable White Light of ns <sup>2</sup> Ions Doped Rb <sub>2</sub> SnCl <sub>6</sub> Vacancy Ordered Double Perovskite. <b>2022</b> , 13, 11143-11152		0
7	High In content nitride sub-micrometer platelet arrays for long wavelength optical applications. <b>2022</b> , 121, 211105		0
6	Electromechanically Coupled III-N Quantum Dots. <b>2023</b> , 13, 241		0
5	Recombination Rate Analysis of InGaN-Based Red-Emitting Light-Emitting Diodes. <b>2023</b> , 59, 1-9		0
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3	Influence of K/Na ions on structure and luminescence properties of red phosphors K <sub>0.5</sub> Na <sub>0.5</sub> Gd(WO <sub>4</sub> ) <sub>2</sub> : Eu <sup>3+</sup> . <b>2023</b> , 13, 100375		0
2	Structure, luminescence and energy transfer of Eu <sup>2+</sup> /Mn <sup>2+</sup> co-doped SrO-MgO-B <sub>2</sub> O <sub>3</sub> glass for full-color emitting WLEDs. <b>2023</b> , 823, 140513		0
1	YAG:Ce PiGF@Alumina-Substrate in a Reflection Mode for High-Brightness Laser-Driven Projection Display.		0