Won-Bin Im

List of Publications by Year
in descending order

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160 papers	7,407 citations	61857 43 h-index	62479 80 g-index
169 all docs	169 docs citations	169 times ranked	6034 citing authors

#	Article	IF	Citations
1	A zero-thermal-quenching phosphor. Nature Materials, 2017, 16, 543-550.	13.3	748
2	Enhancement of red spectral emission intensity of Y3Al5O12:Ce3+ phosphor via Pr co-doping and Tb substitution for the application to white LEDs. Journal of Luminescence, 2007, 126, 371-377.	1.5	499
3	Efficient and Colorâ€Tunable Oxyfluoride Solid Solution Phosphors for Solidâ€State White Lighting. Advanced Materials, 2011, 23, 2300-2305.	11.1	311
4	Sr_{2.975â^'x}Ba_xCe_{0.025}AlO₄F: a Highly Efficient Green-Emitting Oxyfluoride Phosphor for Solid State White Lighting. Chemistry of Materials, 2010, 22, 2842-2849.	3.2	227
5	Luminescence Properties and Energy Transfer of Site-Sensitive Ca_{6â^'xâ^'y}Mg_{xâ^'z}(PO₄)₄:Eu_y<sup Phosphors and Their Application to Near-UV LED-Based White LEDs. Inorganic Chemistry, 2009, 48, 11525-11532.	1.9	187
6	LaSr₂AlO₅, a Versatile Host Compound for Ce³⁺-Based Yellow Phosphors: Structural Tuning of Optical Properties and Use in Solid-State White Lighting. Chemistry of Materials, 2009, 21, 2957-2966.	3.2	180
7	Phosphor in glasses with Pb-free silicate glass powders as robust color-converting materials for white LED applications. Optics Letters, 2012, 37, 3276.	1.7	174
8	A yellow-emitting Ce3+ phosphor, La1â^'xCexSr2AlO5, for white light-emitting diodes. Applied Physics Letters, 2008, 93, .	1.5	158
9	Novel Blue-Emitting Na_xCa_{1-x}Al_{2-x}Si_{2+x}O₈:Eu²⁺ (x = 0.34) Phosphor with High Luminescent Efficiency for UV-Pumped Light-Emitting Diodes. Inorganic Chemistry, 2012, 51, 10688-10694.	1.9	153
10	Doped Lanthanum Nickelates with a Layered Perovskite Structure as Bifunctional Cathode Catalysts for Rechargeable Metalâ€“Air Batteries. ACS Applied Materials & Interfaces, 2013, 5, 9902-9907.	4.0	146
11	Processable high internal phase Pickering emulsions using depletion attraction. Nature Communications, 2017, 8, 14305.	5.8	127
12	Hydrophobic Organic Skin as a Protective Shield for Moisture-Sensitive Phosphor-Based Optoelectronic Devices. ACS Applied Materials & Interfaces, 2017, 9, 7232-7240.	4.0	121
13	A New Blue-Emitting Oxohalide Phosphor Sr₄OCl₆:Eu²⁺ for Thermally Stable, Efficient White-Light-Emitting Devices under Near-UV. Journal of Physical Chemistry C, 2014, 118, 2686-2692.	1.5	118
14	Tunable full-color-emitting La0.827Al11.9O19.09:Eu2+,Mn2+ phosphor for application to warm white-light-emitting diodes. Applied Physics Letters, 2006, 89, 231909.	1.5	117
15	Reviewâ€”Phosphor Plates for High-Power LED Applications: Challenges and Opportunities toward Perfect Lighting. ECS Journal of Solid State Science and Technology, 2018, 7, R3134-R3147.	0.9	117
16	Melilite-Structure CaYAl₃O₇:Eu³⁺ Phosphor: Structural and Optical Characteristics for Near-UV LED-Based White Light. Journal of Physical Chemistry C, 2012, 116, 26850-26856.	1.5	114
17	Near UV-pumped yellow-emitting Eu2+-doped Na3K(Si1â^'xAlx)8O16Â±Î´ phosphor for white-emitting LEDs. Journal of Materials Chemistry, 2012, 22, 8793.	6.7	100
18	Mining Unexplored Chemistries for Phosphors for High-Color-Quality White-Light-Emitting Diodes. Joule, 2018, 2, 914-926.	11.7	97

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19	Smart design to resolve spectral overlapping of phosphor-in-glass for high-powered remote-type white light-emitting devices. Optics Letters, 2014, 39, 762.	1.7	94
20	Colloidal Organolead Halide Perovskite with a High Mn Solubility Limit: A Step Toward Pb-Free Luminescent Quantum Dots. Journal of Physical Chemistry Letters, 2017, 8, 4161-4166.	2.1	90
21	Control of chromaticity by phosphor in glasses with low temperature sintered silicate glasses for LED applications. Optics Letters, 2014, 39, 4084.	1.7	87
22	Crystal Structure and Photoluminescence Evolution of La₅(Si_{2+x}B_{1â€“x})(O_{13â€“x}N_x):Ce<sup>3 Solid Solution Phosphors. Journal of Physical Chemistry C, 2015, 119, 9488-9495.	1.5	87
23	Mechanoluminescent, Air-Dielectric MoS₂ Transistors as Active-Matrix Pressure Sensors for Wide Detection Ranges from Footsteps to Cellular Motions. Nano Letters, 2020, 20, 66-74.	4.5	80
24	Thermal Stability Study of BaAl2Si2O8:Eu2+Phosphor Using Its Polymorphism for Plasma Display Panel Application. Chemistry of Materials, 2006, 18, 1190-1195.	3.2	75
25	La1â^'xâ^'0.025Ce0.025Sr2+xAl1â^'xSixO5 solid solutions as tunable yellow phosphors for solid state white lighting. Journal of Materials Chemistry, 2009, 19, 1325.	6.7	75
26	Origin of PL intensity increase of CaMgSi2O6:Eu2+ phosphor after baking process for PDPs application. Solid State Communications, 2005, 133, 197-201.	0.9	67
27	Stacked Quantum Dot Embedded Silica Film on a Phosphor Plate for Superior Performance of White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2014, 6, 5744-5748.	4.0	66
28	Luminescent and Structural Properties of (Sr_{1â^'x},Ba_x)₃MgSi₂O₈:Eu²⁺: Effects of Ba Content on the Eu²⁺ Site Preference for Thermal Stability. Inorganic Chemistry, 2009, 48, 557-564.	1.9	65
29	New full-color-emitting phosphor, Eu2+-doped Na2â^'xAl2â^'xSixO4 (0 â‰¤x≤ 1), obtained using phase transitions for solid-state white lighting. Journal of Materials Chemistry, 2012, 22, 5374.	6.7	64
30	Phosphor in glass with Eu3+ and Pr3+-doped silicate glasses for LED color conversion. Optical Materials, 2015, 41, 67-70.	1.7	64
31	Fully activated Li2MnO3 nanoparticles by oxidation reaction. Journal of Materials Chemistry, 2012, 22, 11772.	6.7	63
32	Facile Synthesis of Electrospun Li_{1.2}Ni_{0.17}Co_{0.17}Mn_{0.5}O₂ Nanofiber and Its Enhanced High-Rate Performance for Lithium-Ion Battery Applications. ACS Applied Materials & Interfaces, 2013, 5, 7765-7769.	4.0	61
33	A novel blue-emitting silica-coated KBaPO4:Eu2+ phosphor under vacuum ultraviolet and ultraviolet excitation. Materials Chemistry and Physics, 2009, 115, 161-164.	2.0	60
34	Correlation of photoluminescence of (Y, Ln)VO4:Eu3+ (Ln=Gd and La) phosphors with their crystal structures. Solid State Communications, 2005, 133, 651-656.	0.9	58
35	Promoting Li2O2 oxidation by an La1.7Ca0.3Ni0.75Cu0.25O4 layered perovskite in lithiumâ€“oxygen batteries. Chemical Communications, 2012, 48, 9406.	2.2	58
36	Robust moisture and thermally stable phosphor glass plate for highly unstable sulfide phosphors in high-power white light-emitting diodes. Optics Letters, 2013, 38, 3298.	1.7	57

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37	Pyro-synthesis of a high rate nano-Li3V2(PO4)3/C cathode with mixed morphology for advanced Li-ion batteries. Scientific Reports, 2014, 4, 4047.	1.6	57
38	Probing molecule-like isolated octahedra via phase stabilization of zero-dimensional cesium lead halide nanocrystals. Nature Communications, 2018, 9, 4691.	5.8	56
39	Mechanochemistry as a Green Route: Synthesis, Thermal Stability, and Postsynthetic Reversible Phase Transformation of Highly-Luminescent Cesium Copper Halides. Journal of Physical Chemistry Letters, 2020, 11, 7723-7729.	2.1	55
40	Particle size control of a monodisperse spherical Y2O3:Eu3+ phosphor and its photoluminescence properties. Journal of Materials Research, 2007, 22, 2017-2024.	1.2	51
41	Improved color rendering index and thermal stability of white LEDs with phosphor-in-glass using the SiO2-B2O3-ZnO-Na2O glass system. Journal of Non-Crystalline Solids, 2016, 445-446, 77-80.	1.5	46
42	Preparation and photoluminescence properties of YAl3(BO3)4:Tb3+, Bi3+ phosphor under VUV/UV excitation. Optical Materials, 2008, 31, 131-135.	1.7	45
43	Continuous nano-coating of Y2O3:Eu3+ phosphor shell on SiO2 core particles and its photoluminescence properties. Journal of Luminescence, 2010, 130, 153-156.	1.5	44
44	Substitution of oxygen by fluorine in the GdSr_2AlO_5:Ce^3+ phosphors: Gd_1â^'xSr_2+xAlO_5â^'xF_x solid solutions for solid state white lighting. Optics Express, 2009, 17, 22673.	1.7	43
45	Probing local structure in the yellow phosphor LaSr2AlO5â€‰:â€‰Ce3+, by the maximum entropy method and pair distribution function analysis. Journal of Materials Chemistry, 2009, 19, 8761.	6.7	42
46	Red-Emitting LiLa[sub 2]O[sub 2]BO[sub 3]:Sm[sup 3+],Eu[sup 3+] Phosphor for Near-Ultraviolet Light-Emitting Diodes-Based Solid-State Lighting. Journal of the Electrochemical Society, 2008, 155, J226.	1.3	41
47	Facile one-step fabrication of 2-layered and 4-quadrant type phosphor-in-glass plates for white LEDs: an insight into angle dependent luminescence. Optical Materials Express, 2016, 6, 804.	1.6	40
48	Cation-Size Mismatch as a Design Principle for Enhancing the Efficiency of Garnet Phosphors. Chemistry of Materials, 2020, 32, 3097-3108.	3.2	40
49	Effective Heat Dissipation from Color-Converting Plates in High-Power White Light Emitting Diodes by Transparent Graphene Wrapping. ACS Nano, 2016, 10, 238-245.	7.3	39
50	Bredigite-structure Ca14Mg2[SiO4]8:Eu2+,Mn2+: A tunable greenâ€“red-emitting phosphor with efficient energy transfer for solid-state lighting. Acta Materialia, 2012, 60, 5783-5790.	3.8	38
51	La-doped SrTiO3 interconnect materials for anode-supported flat-tubular solid oxide fuel cells. International Journal of Hydrogen Energy, 2012, 37, 4319-4327.	3.8	38
52	Synergic coating and doping effects of Ti-modified integrated layeredâ€“spinel Li_{1.2}Mn_{0.75}Ni_{0.25}O_{2+Î´} as a high capacity and long lifetime cathode material for Li-ion batteries. Journal of Materials Chemistry A, 2018, 6, 2200-2211.	5.2	38
53	Sub-micro droplet reactors for green synthesis of Li3VO4 anode materials in lithium ion batteries. Nature Communications, 2021, 12, 3081.	5.8	37
54	Multimodal Digital Xâ€ray Scanners with Synchronous Mapping of Tactile Pressure Distributions using Perovskites. Advanced Materials, 2021, 33, e2008539.	11.1	36

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55	Influence of Ti⁴⁺ on the Electrochemical Performance of Li-Rich Layered Oxides - High Power and Long Cycle Life of Li₂Ru_{1â€“x}Ti_xO₃ Cathodes. ACS Applied Materials & Interfaces, 2015, 7, 7118-7128.	4.0	34
56	A complete inorganic colour converter based on quantum-dot-embedded silicate glasses for white light-emitting-diodes. Chemical Communications, 2016, 52, 3564-3567.	2.2	34
57	Phosphorâ€inâ€glass thick film formation with low sintering temperature phosphosilicate glass for robust white <scp>LED</scp>. Journal of the American Ceramic Society, 2017, 100, 1280-1284.	1.9	34
58	Bredigite-structure orthosilicate phosphor as a green component for white LED: the structural and optical properties. Optics Express, 2012, 20, 6248.	1.7	32
59	Versatile Ca₄F₂Si₂O₇ Host from Defect-Induced Host Emission to White-Light-Emitting Ce³⁺-Doped Ca₄F₂Si₂O₇ Phosphor for Near-UV Solid-State Lighting. Journal of Physical Chemistry C, 2016, 120, 4495-4503.	1.5	32
60	Intrinsically conductive polymer binders for electrochemical capacitor application. RSC Advances, 2014, 4, 27939-27945.	1.7	31
61	Highly porous coral-like silicon particles synthesized by an ultra-simple thermal-reduction method. Journal of Materials Chemistry A, 2018, 6, 2834-2846.	5.2	31
62	Full-color-emitting CaYAl3O7:Pr3+,Ce3+ phosphor for near-UV LED-based white light. Journal of Luminescence, 2014, 152, 176-181.	1.5	30
63	Improved electrochemical reversibility of over-lithiated layered Li 2 RuO 3 cathodes: Understanding aliovalent Co 3+ substitution with excess lithium. Journal of Power Sources, 2016, 324, 428-438.	4.0	30
64	Molecular Cooperative Assembly-Mediated Synthesis of Ultra-High-Performance Hard Carbon Anodes for Dual-Carbon Sodium Hybrid Capacitors. ACS Nano, 2019, 13, 11935-11946.	7.3	29
65	Facile fabrication of mesoporous carbon from mixed polymer precursor of PVDF and PTFE for high-power supercapacitors. Carbon, 2020, 159, 283-291.	5.4	29
66	Low temperature burnable carbon nanotube paste component for carbon nanotube field emitter backlight unit. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 745.	1.6	28
67	Tunable emission from blue to white light in single-phase Na_034Ca_(066-x_-y_)Al_166Si_234O_8: xEu^2+,yMn^2+ (x = 007) phosphor for white-light UV LEDs. Optics Express, 2013, 21, 3287.	1.7	28
68	Towards green synthesis of Mn4+-doped fluoride phosphors: a review. Journal of Materials Research and Technology, 2021, 11, 181-195.	2.6	28
69	Luminescent and aging characteristics of blue emitting (Ca1â^'x,Mgx)Al2Si2O8:Eu2+ phosphor for PDPs application. Solid State Communications, 2005, 134, 717-720.	0.9	26
70	Rare earth doped silicate-oxyfluoride glass ceramics incorporating LaF3 nano-crystals for UV-LED color conversion. Optical Materials, 2013, 35, 2034-2038.	1.7	26
71	Highly Luminescent Quantum Dots in Remoteâ€Type Liquidâ€Phase Color Converters for White Lightâ€Emitting Diodes. Advanced Materials Technologies, 2018, 3, 1800235.	3.0	26
72	Color tunable single-phase Eu²⁺and Ce³⁺co-activated Sr₂LiAlO₄phosphors. Journal of Materials Chemistry C, 2019, 7, 7734-7744.	2.7	26

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73	Double Encapsulation of CsPbBr₃ Perovskite Nanocrystals with Inorganic Glasses for Robust Color Converters with Wide Color Gamut. ACS Applied Nano Materials, 2021, 4, 7072-7078.	2.4	26
74	Facile fabrication of moisture resistance and thermally stable SrGa2S4:Eu2+ phosphor-in-glass microcubes for white LED. Ceramics International, 2015, 41, 5200-5204.	2.3	25
75	Facile Green Synthesis of Pseudocapacitance-Contributed Ultrahigh Capacity Fe₂(MoO₄)₃ as an Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 35152-35163.	4.0	25
76	Robust, Brighter Red Emission from CsPbI₃ Perovskite Nanocrystals via Endotaxial Protection. Journal of Physical Chemistry Letters, 2020, 11, 3699-3704.	2.1	25
77	Neutron Rietveld Analysis for Optimized CaMgSi2O6:Eu2+ and its Luminescent Properties. Journal of Materials Research, 2005, 20, 2061-2066.	1.2	24
78	A low sintering temperature glass based on SiO₂â€“P₂O₅â€“ZnOâ€“B₂O₃â€“R₂O system for white <scp>LED</scp>s with high color rendering index. Journal of the American Ceramic Society, 2017, 100, 5186-5192.	1.9	24
79	Facile synthesis of SnS2@g-C3N4 composites as high performance anodes for lithium ion batteries. Applied Surface Science, 2021, 549, 149312.	3.1	24
80	Combined Rietveld refinement of Zn2SiO4:Mn2+ using X-ray and neutron powder diffraction data. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 346-351.	0.6	23
81	Simple, robust metal fluoride coating on layered Li1.23Ni0.13Co0.14Mn0.56O2 and its effects on enhanced electrochemical properties. Electrochimica Acta, 2013, 100, 10-17.	2.6	23
82	A rapid polyol combustion strategy towards scalable synthesis of nanostructured LiFePO4/C cathodes for Li-ion batteries. Journal of Solid State Electrochemistry, 2014, 18, 1557-1567.	1.2	23
83	Role of Co-Vapors in Vapor Deposition Polymerization. Scientific Reports, 2015, 5, 8420.	1.6	23
84	Structural and luminescent properties of red-emitting SrGe 4 O 9 :Mn 4+ phosphors for white light-emitting diodes with high color rendering index. Journal of Luminescence, 2016, 172, 99-104.	1.5	23
85	Highly Elastic and >200% Reversibly Stretchable Downâ€Conversion White Lightâ€Emitting Diodes Based on Quantum Dot Gel Emitters. Advanced Optical Materials, 2020, 8, 1901972.	3.6	23
86	Zero-Thermal-Quenching Layered Metal Halide Perovskite. Chemistry of Materials, 2022, 34, 5690-5697.	3.2	23
87	Zero-thermal-quenching and improved chemical stability of a UCr4C4-type phosphor via crystal site engineering. Chemical Engineering Journal, 2021, 420, 127664.	6.6	21
88	Color-tunable binary solid-solution phosphor, (Sr3SiO5)1â^'x(Sr3AlO4F)x, for white LEDs: Energy transfer mechanism between Ce3+ and Tb3+. Journal of Alloys and Compounds, 2013, 555, 297-303.	2.8	20
89	Enhanced Luminescence of <scp><scp>Ca</scp></scp>₁₄<scp><scp>Mg</scp></scp>₂<scp><scp>Si</scp></scp>₈<scp> by Codoping <scp><scp>Ce</scp></scp>³⁺, <scp><scp>Mn</scp></scp>²⁺ for White <scp>LED</scp>s and Their Energyâ€Transfer Mechanism. Journal of the American Ceramic Society, 2014, 97, 874-879.	1.9	20
90	Comparative study of optical and structural properties of electrospun 1-dimensional CaYAl 3 O 7 :Eu 3+ nanofibers and bulk phosphor. Materials Characterization, 2014, 95, 27-35.	1.9	20

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91	Effect of synthesis temperature on the structural defects of integrated spinel-layered Li_{1.2}Mn_{0.75}Ni_{0.25}O_{2+Î´}: a strategy to develop high-capacity cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 15730-15742.	5.2	20
92	Phosphor in glass using Î²-SiAlON:Eu2+, CaAlSiN3:Eu2+ and Nd-doped silicate glass for enhanced color gamut of white LED. Journal of Alloys and Compounds, 2021, 851, 156945.	2.8	20
93	Effects of Eu[sup 2+] Concentration Variation and Ce[sup 3+] Codoping on Photoluminescence Properties of BaGa[sub 2]S[sub 4]:Eu[sup 2+] Phosphor. Journal of the Electrochemical Society, 2008, 155, J66.	1.3	19
94	Efficiency Enhancement of Bredigiteâ€Structure <scp><scp>Ca</scp></scp>₁₄<scp><scp>Mg</scp></scp>₂[<scp><scp>SiO</scp></scp>₄]<su Phosphor via Partial Nitridation for Solidâ€State Lighting Applications. Journal of the American Ceramic Society, 2013, 96, 503-508.	1.9	19
95	A new persistent blue-emitting phosphor: Tailoring the trap density for enhancing the persistent time. Applied Materials Today, 2020, 18, 100518.	2.3	19
96	La₄LiAuO₈ and La₂BaPdO₅: Comparing Two Highly Stable d⁸ Square-Planar Oxides. Inorganic Chemistry, 2010, 49, 4670-4680.	1.9	18
97	Tuning the diurnal natural daylight with phosphor converted white LED â€“ Advent of new phosphor blend composition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 193, 4-12.	1.7	18
98	Compositional dependency of Cdâ€Sâ€Se quantum dots within silicate glass on color conversion for a white <scp>LED</scp>. Journal of the American Ceramic Society, 2019, 102, 1703-1709.	1.9	18
99	Narrow-Band SrMgAl₁₀O₁₇:Eu²⁺, Mn²⁺ Green Phosphors for Wide-Color-Gamut Backlight for LCD Displays. ACS Omega, 2020, 5, 19516-19524.	1.6	18
100	Strategies for improving luminescence efficiencies of blue-emitting metal halide perovskites. Journal of the Korean Ceramic Society, 2021, 58, 28-41.	1.1	18
101	A morphology, porosity and surface conductive layer optimized MnCo₂O₄ microsphere for compatible superior Li⁺ ion/air rechargeable battery electrode materials. Dalton Transactions, 2016, 45, 5064-5070.	1.6	17
102	Effects of excess Li on the structure and electrochemical performance of Li 1+z MnTiO 4+ Î´ cathode for Li-ion batteries. Electrochimica Acta, 2017, 225, 458-466.	2.6	17
103	In-situ preparation and unique electrochemical behavior of pore-embedding CoO/Co3O4 intermixed composite for Li+ rechargeable battery electrodes. Journal of Power Sources, 2018, 378, 562-570.	4.0	17
104	Morphological effects on the electrochemical performance of lithium-rich layered oxide cathodes, prepared by electrospinning technique, for lithium-ion battery applications. Materials Characterization, 2014, 92, 118-126.	1.9	16
105	Engineering the Lattice Site Occupancy of Apatite-Structure Phosphors for Effective Broad-Band Emission through Cation Pairing. Inorganic Chemistry, 2017, 56, 5696-5703.	1.9	16
106	High-performance spinel-rich Li1.5MnTiO4+Î´ ultralong nanofibers as cathode materials for Li-ion batteries. Scientific Reports, 2017, 7, 45579.	1.6	16
107	Effects of Fluorine Doping on Electrochemical Performance of Spinel-Layered Li₃Mn₃O_{7.5-}_xF_x as Cathode Materials for Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A1568-A1573.	1.3	16
108	Thick freeâ€standing electrode based on carbonâ€“carbon nitride microspheres with large mesopores for highâ€energyâ€density lithiumâ€“sulfur batteries. , 2021, 3, 410-423.		16

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109	Characterization of nano-size YVO[sub 4]:Eu and (Y,Gd)VO[sub 4]:Eu phosphors by low voltage cathodo- and photoluminescence. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 843.	1.6	15
110	Eu2+ and Mn2+ co-doped oxyfluoride glass ceramic for white color conversion of 400Ânm UV-LED. Journal of Luminescence, 2020, 222, 117156.	1.5	15
111	A polymer/small-molecule binary-blend hole transport layer for enhancing charge balance in blue perovskite light emitting diodes. Journal of Materials Chemistry A, 2022, 10, 13928-13935.	5.2	15
112	Highly N-doped, H-containing mesoporous carbon with modulated physicochemical properties as high-performance anode materials for Li-ion and Na-ion batteries. Journal of Alloys and Compounds, 2021, 851, 156881.	2.8	14
113	Pr3+-doped oxyfluoride glass ceramic as a white LED color converter wide color gamut. Journal of Luminescence, 2021, 236, 118064.	1.5	14
114	Electrocatalytic and stoichiometric reactivity of 2D layered siloxene for highâ€energyâ€dense lithiumâ€“sulfur batteries. , 2021, 3, 976-990.		14
115	High capacity spinel@layered Li1.5MnTiO4+ as thermally stable core-shell-driven cathode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 704, 459-468.	2.8	13
116	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
117	Preparation and electrochemical characterization of flower-like Li1.2Ni0.17Co0.17Mn0.5O2 microstructure cathode by electrospinning. Ceramics International, 2014, 40, 2029-2034.	2.3	12
118	Highly stable hetero-structured green-emitting cesium lead bromide nanocrystals via ligand-mediated phase control. Nanoscale, 2019, 11, 21137-21146.	2.8	12
119	Zero reduction luminescence of aqueous-phase alloy core/shell quantum dots via rapid ambient-condition ligand exchange. Journal of Colloid and Interface Science, 2020, 564, 88-98.	5.0	12
120	Preferential Site of Gd in Gd-Doped Fe₃O₄ Nanopowder. Journal of Nanoscience and Nanotechnology, 2011, 11, 810-814.	0.9	11
121	Crystal Structural Study of Ho-doped Ceria Using X-ray Powder Diffraction Data. Journal of Electroceramics, 2013, 31, 254-259.	0.8	11
122	Energy Transfer in Sr₂MgSi₂O₇:Eu²⁺ Phosphors in Nano Scale and Their Application to Solid State Lighting with Excellent Color Rendering. Journal of Nanoscience and Nanotechnology, 2013, 13, 4079-4083.	0.9	11
123	Synthesis of Mn4+ activated Na2SiF6 red-emitting phosphors using an ionic liquid. Journal of Luminescence, 2020, 218, 116835.	1.5	11
124	Jahnâ€“Teller distortion-driven robust blue-light-emitting perovskite nanoplatelets. Applied Materials Today, 2020, 20, 100668.	2.3	11
125	Detection of cracked teeth using a mechanoluminescence phosphor with a stretchable photodetector array. NPG Asia Materials, 2022, 14, .	3.8	11
126	A new mechanoluminescence phosphor Na3Sc2(PO4)3:Eu2+: Phase transition-assisted defect formation in a polymorphic composition. Ceramics International, 2020, 46, 12138-12144.	2.3	10

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127	Structural refinement of Eu doped CaMgSi2O6 using X-ray powder diffraction data. Journal of Luminescence, 2005, 115, 1-6.	1.5	9
128	Template-engaged synthesis of spinel-layered Li1.5MnTiO4+ nanorods as a cathode material for Li-ion batteries. Journal of Power Sources, 2017, 355, 134-139.	4.0	9
129	A nanosheet phosphor of double-layered perovskite with unusual intrananosheet site activator concentration. Chemical Engineering Journal, 2019, 375, 122044.	6.6	9
130	Internal pressure effect on cathodoluminescence enhancement of ZnS:Mn2+ synthesized by a sealed vessel. Journal of Materials Research, 2007, 22, 2838-2844.	1.2	8
131	Efficiency and Thermal Stability Enhancements of Sr$_{2}$SiO$_{4}$:Eu^{2+} Phosphor via Bi^{3+} Codoping for Solid-State White Lighting. Japanese Journal of Applied Physics, 2012, 51, 022602.	0.8	8
132	New melilite (Ca,Sr,Ba)₄MgAl₂Si₃O₁₄:Eu²⁺ phosphor: structural and spectroscopic analysis for application in white LEDs. RSC Advances, 2017, 7, 2025-2032.	1.7	8
133	Spinel-layered Li2MnTiO4+ nanofibers as cathode materials for Li-ion batteries. Solid State Sciences, 2020, 103, 106178.	1.5	8
134	Recent Advances and Challenges in Obtaining Stable CsPbX₃ (X = Cl, Br, and I) Nanocrystals Toward White Light-Emitting Applications. ECS Journal of Solid State Science and Technology, 2021, 10, 106001.	0.9	8
135	Combined Rietveld refinement of CaMgSi2O6:Eu2+ using X-ray and neutron powder diffraction data. Journal of Materials Science, 2006, 41, 1643-1647.	1.7	7
136	Low-temperature synthesis of Fe2(MoO4)3nanosheets: A cathode for sodium ion batteries with kinetics enhancement. Nano Research, 2021, 14, 3977.	5.8	7
137	Blue and orange emission from Ce3+ and Yb2+ doped KNa3Al4Si4O16 phosphor: A detailed study of the luminescence mechanism. Journal of Alloys and Compounds, 2015, 618, 718-723.	2.8	6
138	A Phosphosilicate Compound, NaCa₃PSiO₈: Structure Solution and Luminescence Properties. Inorganic Chemistry, 2017, 56, 15130-15137.	1.9	6
139	Cdâ€“Sâ€“Se quantum dot embedded glasses with dual emissions for wide color gamut white LED. International Journal of Applied Glass Science, 2021, 12, 415-423.	1.0	6
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