

Won-Bin Im

List of Publications by Year in descending order

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160
papers

7,407
citations

61857

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h-index

62479

80
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169
all docs

169
docs citations

169
times ranked

6034
citing authors

#	ARTICLE	IF	CITATIONS
1	One-pot synthesis of SnS ₂ Nanosheets supported on g-C ₃ N ₄ as high capacity and stable cycling anode for sodium-ion batteries. International Journal of Energy Research, 2022, 46, 3233-3248.	2.2	6
2	Plasma-resistant characteristics according to sintering conditions of CaO-Al ₂ O ₃ -SiO ₂ glass coating layer. Journal of the Korean Ceramic Society, 2022, 59, 86-93.	1.1	3
3	Detection of cracked teeth using a mechanoluminescence phosphor with a stretchable photodetector array. NPG Asia Materials, 2022, 14, .	3.8	11
4	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
5	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
6	Zero-Thermal-Quenching Layered Metal Halide Perovskite. Chemistry of Materials, 2022, 34, 5690-5697.	3.2	23
7	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
8	Phosphor in glass using β -SiAlON:Eu ²⁺ , CaAlSiN ₃ :Eu ²⁺ and Nd-doped silicate glass for enhanced color gamut of white LED. Journal of Alloys and Compounds, 2021, 851, 156945.	2.8	20
9	Zero-thermal-quenching and improved chemical stability of a UCr ₄ C ₄ -type phosphor via crystal site engineering. Chemical Engineering Journal, 2021, 420, 127664.	6.6	21
10	Strategies for improving luminescence efficiencies of blue-emitting metal halide perovskites. Journal of the Korean Ceramic Society, 2021, 58, 28-41.	1.1	18
11	Cd-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
12	Low-temperature synthesis of Fe ₂ (MoO ₄) ₃ nanosheets: A cathode for sodium ion batteries with kinetics enhancement. Nano Research, 2021, 14, 3977.	5.8	7
13	Towards green synthesis of Mn ⁴⁺ -doped fluoride phosphors: a review. Journal of Materials Research and Technology, 2021, 11, 181-195.	2.6	28
14	Facile synthesis of SnS ₂ @g-C ₃ N ₄ composites as high performance anodes for lithium ion batteries. Applied Surface Science, 2021, 549, 149312.	3.1	24
15	Thick free-standing electrode based on carbon-carbon nitride microspheres with large mesopores for high-energy-density lithium-sulfur batteries. , 2021, 3, 410-423.		16
16	Sub-micro droplet reactors for green synthesis of Li ₃ VO ₄ anode materials in lithium ion batteries. Nature Communications, 2021, 12, 3081.	5.8	37
17	Double Encapsulation of CsPbBr ₃ Perovskite Nanocrystals with Inorganic Glasses for Robust Color Converters with Wide Color Gamut. ACS Applied Nano Materials, 2021, 4, 7072-7078.	2.4	26
18	Multimodal Digital X-ray Scanners with Synchronous Mapping of Tactile Pressure Distributions using Perovskites. Advanced Materials, 2021, 33, e2008539.	11.1	36

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19	Enhancement of Luminescence Efficiency of Y ₂ O ₃ Nanophosphor via Core/Shell Structure. <i>Nanomaterials</i> , 2021, 11, 1563.	1.9	5
20	Third-Order Nonlinear Optical Response-Driven Upconversion Phosphors. <i>Advanced Optical Materials</i> , 2021, 9, 2100549.	3.6	4
21	Back Cover Image, Volume 3, Number 3, July 2021. , 2021, 3, ii.		0
22	Pr ³⁺ -doped oxyfluoride glass ceramic as a white LED color converter wide color gamut. <i>Journal of Luminescence</i> , 2021, 236, 118064.	1.5	14
23	Elucidating roles of cation disorder and spinel phase in high-capacity integrated spinel-layered cathodes. <i>Journal of Power Sources</i> , 2021, 507, 230315.	4.0	5
24	Recent Advances and Challenges in Obtaining Stable CsPbX ₃ (X = Cl, Br, and I) Nanocrystals Toward White Light-Emitting Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 106001.	0.9	8
25	Electrocatalytic and stoichiometric reactivity of 2D layered siloxene for high-energy-dense lithium-sulfur batteries. , 2021, 3, 976-990.		14
26	Mechanoluminescent, Air-Dielectric MoS ₂ Transistors as Active-Matrix Pressure Sensors for Wide Detection Ranges from Footsteps to Cellular Motions. <i>Nano Letters</i> , 2020, 20, 66-74.	4.5	80
27	Synthesis of Mn ⁴⁺ activated Na ₂ SiF ₆ red-emitting phosphors using an ionic liquid. <i>Journal of Luminescence</i> , 2020, 218, 116835.	1.5	11
28	Critical Review—A Promising Cs ₃ CoCl ₅ Prototype Phosphor toward the Discovery of Next-Generation LED Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 016016.	0.9	3
29	Facile fabrication of mesoporous carbon from mixed polymer precursor of PVDF and PTFE for high-power supercapacitors. <i>Carbon</i> , 2020, 159, 283-291.	5.4	29
30	Zero reduction luminescence of aqueous-phase alloy core/shell quantum dots via rapid ambient-condition ligand exchange. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 88-98.	5.0	12
31	A new persistent blue-emitting phosphor: Tailoring the trap density for enhancing the persistent time. <i>Applied Materials Today</i> , 2020, 18, 100518.	2.3	19
32	Rechargeable Intermetallic Calcium-Lithium O ₂ Batteries. <i>ChemSusChem</i> , 2020, 13, 574-581.	3.6	4
33	Narrow-Band SrMgAl ₁₀ O ₁₇ :Eu ²⁺ , Mn ²⁺ Green Phosphors for Wide-Color-Gamut Backlight for LCD Displays. <i>ACS Omega</i> , 2020, 5, 19516-19524.	1.6	18
34	Facile Green Synthesis of Pseudocapacitance-Contributed Ultrahigh Capacity Fe ₂ (MoO ₄) ₃ as an Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35152-35163.	4.0	25
35	Mechanochemistry as a Green Route: Synthesis, Thermal Stability, and Postsynthetic Reversible Phase Transformation of Highly-Luminescent Cesium Copper Halides. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7723-7729.	2.1	55
36	Ant-Cave-Structured Nanopore-Embedded CoMn ₂ O ₄ Microspheres with Stable Electrochemical Reaction for Li-Air Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080537.	1.3	1

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37	Jahn–Teller distortion-driven robust blue-light-emitting perovskite nanoplatelets. <i>Applied Materials Today</i> , 2020, 20, 100668.	2.3	11
38	Eu ²⁺ and Mn ²⁺ co-doped oxyfluoride glass ceramic for white color conversion of 400 nm UV-LED. <i>Journal of Luminescence</i> , 2020, 222, 117156.	1.5	15
39	Color conversion properties of various thick-film phosphor glasses depending on structural design for white LEDs. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4266-4274.	1.9	5
40	Spinel-layered Li ₂ MnTiO ₄ + nanofibers as cathode materials for Li-ion batteries. <i>Solid State Sciences</i> , 2020, 103, 106178.	1.5	8
41	Cation-Size Mismatch as a Design Principle for Enhancing the Efficiency of Garnet Phosphors. <i>Chemistry of Materials</i> , 2020, 32, 3097-3108.	3.2	40
42	Effect of Synthesis Temperature on Structure and Electrochemical Performance of Spinel-Layered Li _{1.33} MnTiO _{4+z} in Li-Ion Batteries. <i>Energies</i> , 2020, 13, 2962.	1.6	5
43	Highly Elastic and >200% Reversibly Stretchable Down-Conversion White Light-Emitting Diodes Based on Quantum Dot Gel Emitters. <i>Advanced Optical Materials</i> , 2020, 8, 1901972.	3.6	23
44	Robust, Brighter Red Emission from CsPbI ₃ Perovskite Nanocrystals via Endotaxial Protection. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3699-3704.	2.1	25
45	A new mechanoluminescence phosphor Na ₃ Sc ₂ (PO ₄) ₃ :Eu ²⁺ : Phase transition-assisted defect formation in a polymorphic composition. <i>Ceramics International</i> , 2020, 46, 12138-12144.	2.3	10
46	Compositional dependency of CdSe quantum dots within silicate glass on color conversion for a white LED. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1703-1709.	1.9	18
47	Molecular Cooperative Assembly-Mediated Synthesis of Ultra-High-Performance Hard Carbon Anodes for Dual-Carbon Sodium Hybrid Capacitors. <i>ACS Nano</i> , 2019, 13, 11935-11946.	7.3	29
48	A nanosheet phosphor of double-layered perovskite with unusual intrananosheet site activator concentration. <i>Chemical Engineering Journal</i> , 2019, 375, 122044.	6.6	9
49	Phase formation and luminescence properties of ternary solid-solution among tetragonal systems. <i>Journal of Alloys and Compounds</i> , 2019, 798, 635-643.	2.8	2
50	Color tunable single-phase Eu ²⁺ and Ce ³⁺ co-activated Sr ₂ LiAlO ₄ phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7734-7744.	2.7	26
51	Effects of Fluorine Doping on Electrochemical Performance of Spinel-Layered Li ₃ Mn ₃ O _{7.5-x} F _x as Cathode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1568-A1573.	1.3	16
52	Highly stable hetero-structured green-emitting cesium lead bromide nanocrystals via ligand-mediated phase control. <i>Nanoscale</i> , 2019, 11, 21137-21146.	2.8	12
53	Rational design of electrochemically active polymorphic MnO _x /rGO composites for Li+-rechargeable battery electrodes. <i>Ceramics International</i> , 2019, 45, 9522-9528.	2.3	3
54	Mining Unexplored Chemistries for Phosphors for High-Color-Quality White-Light-Emitting Diodes. <i>Joule</i> , 2018, 2, 914-926.	11.7	97

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55	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
56	In-situ preparation and unique electrochemical behavior of pore-embedding CoO/Co ₃ O ₄ intermixed composite for Li+ rechargeable battery electrodes. Journal of Power Sources, 2018, 378, 562-570.	4.0	17
57	Synergic coating and doping effects of Ti-modified integrated layered spinel Li _{1.2} Mn _{0.75} Ni _{0.25} O ₂ + $\hat{\Gamma}$ 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
58	Review "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
59	Probing molecule-like isolated octahedra via phase stabilization of zero-dimensional cesium lead halide nanocrystals. Nature Communications, 2018, 9, 4691.	5.8	56
60	Highly Luminescent Quantum Dots in Remote Type Liquid Phase Color Converters for White Light Emitting Diodes. Advanced Materials Technologies, 2018, 3, 1800235.	3.0	26
61	New melilite (Ca,Sr,Ba) ₄ MgAl ₂ Si ₃ O ₁₄ :Eu ²⁺ phosphor: structural and spectroscopic analysis for application in white LEDs. RSC Advances, 2017, 7, 2025-2032.	1.7	8
62	Processable high internal phase Pickering emulsions using depletion attraction. Nature Communications, 2017, 8, 14305.	5.8	127
63	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
64	A zero-thermal-quenching phosphor. Nature Materials, 2017, 16, 543-550.	13.3	748
65	High capacity spinel-layered Li _{1.5} MnTiO ₄ + as thermally stable core-shell-driven cathode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 704, 459-468.	2.8	13
66	Phosphor-in-glass thick film formation with low sintering temperature phosphosilicate glass for robust white LED. Journal of the American Ceramic Society, 2017, 100, 1280-1284.	1.9	34
67	Template-engaged synthesis of spinel-layered Li _{1.5} MnTiO ₄ + nanorods as a cathode material for Li-ion batteries. Journal of Power Sources, 2017, 355, 134-139.	4.0	9
68	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
69	High-performance spinel-rich Li _{1.5} MnTiO ₄ + $\hat{\Gamma}$ ultralong nanofibers as cathode materials for Li-ion batteries. Scientific Reports, 2017, 7, 45579.	1.6	16
70	Effects of excess Li on the structure and electrochemical performance of Li _{1+z} MnTiO ₄ + $\hat{\Gamma}$ cathode for Li-ion batteries. Electrochimica Acta, 2017, 225, 458-466.	2.6	17
71	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
72	A Phosphosilicate Compound, NaCa ₃ PSi ₈ : Structure Solution and Luminescence Properties. Inorganic Chemistry, 2017, 56, 15130-15137.	1.9	6

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73	A low sintering temperature glass based on $\text{SiO}_2\text{-P}_2\text{O}_5\text{-ZnO-B}_2\text{O}_3\text{-R}_2\text{O}$ system for white LED's with high color rendering index. Journal of the American Ceramic Society, 2017, 100, 5186-5192.	1.9	24
74	Effect of synthesis temperature on the structural defects of integrated spinel-layered $\text{Li}_{1.2}\text{Mn}_{0.75}\text{Ni}_{0.25}\text{O}_2$: a strategy to develop high-capacity cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 15730-15742.	5.2	20
75	Structural and Optical Properties of Yellow-Emitting $\text{CaGd}_2\text{ZrSc}(\text{AlO}_4)_3\text{:Ce}^{3+}$ Phosphor for Solid-State Lighting. Journal of the Korean Ceramic Society, 2017, 54, 422-428.	1.1	2
76	Enhanced Optical Properties of Bredigite Structure $\text{Ca}_{13.7}\text{Eu}_{0.3}\text{Mg}_2[\text{SiO}_4]_8$ Phosphor: Effective Eu Reduction by La Co-Doping. Journal of the American Ceramic Society, 2016, 99, 557-563.	1.9	2
77	Improved color rendering index and thermal stability of white LEDs with phosphor-in-glass using the $\text{SiO}_2\text{-B}_2\text{O}_3\text{-ZnO-Na}_2\text{O}$ glass system. Journal of Non-Crystalline Solids, 2016, 445-446, 77-80.	1.5	46
78	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
79	Improved electrochemical reversibility of over-lithiated layered Li_2RuO_3 cathodes: Understanding aliovalent Co^{3+} substitution with excess lithium. Journal of Power Sources, 2016, 324, 428-438.	4.0	30
80	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
81	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
82	Versatile $\text{Ca}_4\text{F}_2\text{Si}_2\text{O}_7$ Host from Defect-Induced Host Emission to White-Light-Emitting Ce^{3+} -Doped $\text{Ca}_4\text{F}_2\text{Si}_2\text{O}_7$ Phosphor for Near-UV Solid-State Lighting. Journal of Physical Chemistry C, 2016, 120, 4495-4503.	1.5	32
83	A morphology, porosity and surface conductive layer optimized MnCo_2O_4 microsphere for compatible superior Li^+ ion/air rechargeable battery electrode materials. Dalton Transactions, 2016, 45, 5064-5070.	1.6	17
84	Structural and luminescent properties of red-emitting $\text{SrGe}_4\text{O}_9\text{:Mn}^{4+}$ phosphors for white light-emitting diodes with high color rendering index. Journal of Luminescence, 2016, 172, 99-104.	1.5	23
85	Role of Co-Vapors in Vapor Deposition Polymerization. Scientific Reports, 2015, 5, 8420.	1.6	23
86	Control of the plasmon resonance from poly-dispersed silver nanoparticles. Japanese Journal of Applied Physics, 2015, 54, 02BD02.	0.8	1
87	Influence of Ti^{4+} on the Electrochemical Performance of Li-Rich Layered Oxides - High Power and Long Cycle Life of $\text{Li}_2\text{Ru}_2\text{Ti}_2\text{O}_3$ Cathodes. ACS Applied Materials & Interfaces, 2015, 7, 7118-7128.	4.0	34
88	Crystal Structure and Photoluminescence Evolution of $\text{La}_5(\text{Si}_2\text{B})_3(\text{O}_{13}\text{N}_3)\text{Ce}^{3+}$ Solid Solution Phosphors. Journal of Physical Chemistry C, 2015, 119, 9488-9495.	1.5	30
89	Film formation of CdSe quantum dot embedded phosphate glass on an FTO glass substrate. Electronic Materials Letters, 2015, 11, 670-674.	1.0	0
90	Facile fabrication of moisture resistance and thermally stable $\text{SrGa}_2\text{S}_4\text{:Eu}^{2+}$ phosphor-in-glass microcubes for white LED. Ceramics International, 2015, 41, 5200-5204.	2.3	25

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91	Tuning the diurnal natural daylight with phosphor converted white LED – Advent of new phosphor blend composition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 193, 4-12.	1.7	18
92	Blue and orange emission from Ce ³⁺ and Yb ²⁺ doped KNa ₃ Al ₄ Si ₄ O ₁₆ phosphor: A detailed study of the luminescence mechanism. <i>Journal of Alloys and Compounds</i> , 2015, 618, 718-723.	2.8	6
93	Phosphor in glass with Eu ³⁺ and Pr ³⁺ -doped silicate glasses for LED color conversion. <i>Optical Materials</i> , 2015, 41, 67-70.	1.7	64
94	Control of chromaticity by phosphor in glasses with low temperature sintered silicate glasses for LED applications. <i>Optics Letters</i> , 2014, 39, 4084.	1.7	87
95	Narsarsukite-structure fluorosilicate as a blue component for white LEDs: structural and optical properties. <i>Optics Letters</i> , 2014, 39, 4887.	1.7	1
96	Full-color-emitting CaYAl ₃ O ₇ :Pr ³⁺ ,Ce ³⁺ phosphor for near-UV LED-based white light. <i>Journal of Luminescence</i> , 2014, 152, 176-181.	1.5	30
97	A rapid polyol combustion strategy towards scalable synthesis of nanostructured LiFePO ₄ /C cathodes for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1557-1567.	1.2	23
98	Enhanced Luminescence of Ca ₁₄ Mg ₂ Si ₈ by Codoping Ce ³⁺ , Mn ²⁺ for White LED's and Their Energy Transfer Mechanism. <i>Journal of the American Ceramic Society</i> , 2014, 97, 874-879.	1.9	20
99	Intrinsically conductive polymer binders for electrochemical capacitor application. <i>RSC Advances</i> , 2014, 4, 27939-27945.	1.7	31
100	A New Blue-Emitting Oxohalide Phosphor Sr ₄ OCl ₆ :Eu ²⁺ for Thermally Stable, Efficient White-Light-Emitting Devices under Near-UV. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2686-2692.	1.5	118
101	Preparation and electrochemical characterization of flower-like Li _{1.2} Ni _{0.17} Co _{0.17} Mn _{0.5} O ₂ microstructure cathode by electrospinning. <i>Ceramics International</i> , 2014, 40, 2029-2034.	2.3	12
102	Smart design to resolve spectral overlapping of phosphor-in-glass for high-powered remote-type white light-emitting devices. <i>Optics Letters</i> , 2014, 39, 762.	1.7	94
103	Morphological effects on the electrochemical performance of lithium-rich layered oxide cathodes, prepared by electrospinning technique, for lithium-ion battery applications. <i>Materials Characterization</i> , 2014, 92, 118-126.	1.9	16
104	Stacked Quantum Dot Embedded Silica Film on a Phosphor Plate for Superior Performance of White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5744-5748.	4.0	66
105	Comparative study of optical and structural properties of electrospun 1-dimensional CaYAl ₃ O ₇ :Eu ³⁺ nanofibers and bulk phosphor. <i>Materials Characterization</i> , 2014, 95, 27-35.	1.9	20
106	Pyro-synthesis of a high rate nano-Li ₃ V ₂ (PO ₄) ₃ /C cathode with mixed morphology for advanced Li-ion batteries. <i>Scientific Reports</i> , 2014, 4, 4047.	1.6	57
107	Rare earth doped silicate-oxyfluoride glass ceramics incorporating LaF ₃ nano-crystals for UV-LED color conversion. <i>Optical Materials</i> , 2013, 35, 2034-2038.	1.7	26
108	Crystal Structural Study of Ho-doped Ceria Using X-ray Powder Diffraction Data. <i>Journal of Electroceramics</i> , 2013, 31, 254-259.	0.8	11

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109	Rare earth dependent formation of PbF ₂ nanocrystals and its effect on the emission properties in oxyfluoride glasses. <i>Metals and Materials International</i> , 2013, 19, 347-352.	1.8	2
110	Facile Synthesis of Electrospun Li _{1.2} Ni _{0.17} Co _{0.17} Mn _{0.5} O ₂ Nanofiber and Its Enhanced High-Rate Performance for Lithium-Ion Battery Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7765-7769.	4.0	61
111	Doped Lanthanum Nickelates with a Layered Perovskite Structure as Bifunctional Cathode Catalysts for Rechargeable Metal-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9902-9907.	4.0	146
112	Color-tunable binary solid-solution phosphor, (Sr ₃ SiO ₅) _{1-x} (Sr ₃ AlO ₄ F) _x , for white LEDs: Energy transfer mechanism between Ce ³⁺ and Tb ³⁺ . <i>Journal of Alloys and Compounds</i> , 2013, 555, 297-303.	2.8	20
113	Simple, robust metal fluoride coating on layered Li _{1.23} Ni _{0.13} Co _{0.14} Mn _{0.56} O ₂ and its effects on enhanced electrochemical properties. <i>Electrochimica Acta</i> , 2013, 100, 10-17.	2.6	23
114	Preparation of Electrospun Pyrochlore-Structure KGdTa ₂ O ₇ :Eu ³⁺ Phosphor: The Optical and Structural Properties for White Light Emitting Diode Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7850-7854.	0.9	1
115	Energy Transfer in Sr ₂ MgSi ₂ O ₇ :Eu ²⁺ Phosphors in Nano Scale and Their Application to Solid State Lighting with Excellent Color Rendering. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4079-4083.	0.9	11
116	Robust moisture and thermally stable phosphor glass plate for highly unstable sulfide phosphors in high-power white light-emitting diodes. <i>Optics Letters</i> , 2013, 38, 3298.	1.7	57
117	Tunable emission from blue to white light in single-phase Na _{0.34} Ca _(0.66-x-y) Al _{1.66} Si _{2.34} O ₈ :xEu ²⁺ ,yMn ²⁺ (x = 0.07) phosphor for white-light UV LEDs. <i>Optics Express</i> , 2013, 21, 3287.	1.7	28
118	Efficiency Enhancement of Bredigite-Structure Ca ₁₄ Mg ₂ [SiO ₄] ₈ :Eu ²⁺ Phosphor via Partial Nitridation for Solid-State Lighting Applications. <i>Journal of the American Ceramic Society</i> , 2013, 96, 503-508.	1.9	19
119	Efficiency and Thermal Stability Enhancements of Sr ₂ SiO ₄ :Eu ²⁺ Phosphor via Bi ³⁺ Codoping for Solid-State White Lighting. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 022602.	0.8	8
120	Bredigite-structure orthosilicate phosphor as a green component for white LED: the structural and optical properties. <i>Optics Express</i> , 2012, 20, 6248.	1.7	32
121	Melilite-Structure Ca ₃ YAl ₃ O ₇ :Eu ³⁺ Phosphor: Structural and Optical Characteristics for Near-UV LED-Based White Light. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26850-26856.	1.5	114
122	Bredigite-structure Ca ₁₄ Mg ₂ [SiO ₄] ₈ :Eu ²⁺ ,Mn ²⁺ : A tunable green-red-emitting phosphor with efficient energy transfer for solid-state lighting. <i>Acta Materialia</i> , 2012, 60, 5783-5790.	3.8	38
123	Phosphor in glasses with Pb-free silicate glass powders as robust color-converting materials for white LED applications. <i>Optics Letters</i> , 2012, 37, 3276.	1.7	174
124	Near UV-pumped yellow-emitting Eu ²⁺ -doped Na ₃ K(Si _{1-x} Al _x) ₈ O ₁₆ phosphor for white-emitting LEDs. <i>Journal of Materials Chemistry</i> , 2012, 22, 8793.	6.7	100
125	Novel Blue-Emitting Na _x Ca _{1-x} Al _{2-x} Si _{2+x} O ₈ :Eu ²⁺ (x = 0.34) Phosphor with High Luminescent Efficiency for UV-Pumped Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2012, 51, 10688-10694.	1.9	153
126	Fully activated Li ₂ MnO ₃ nanoparticles by oxidation reaction. <i>Journal of Materials Chemistry</i> , 2012, 22, 11772.	6.7	63

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127	Promoting Li ₂ O ₂ oxidation by an La _{1.7} Ca _{0.3} Ni _{0.75} Cu _{0.25} O ₄ layered perovskite in lithium-oxygen batteries. <i>Chemical Communications</i> , 2012, 48, 9406.	2.2	58
128	New full-color-emitting phosphor, Eu ²⁺ -doped Na ₂ -xAl ₂ -xSi ₆ O ₄ (0 ≤ x ≤ 1), obtained using phase transitions for solid-state white lighting. <i>Journal of Materials Chemistry</i> , 2012, 22, 5374.	6.7	64
129	La-doped SrTiO ₃ interconnect materials for anode-supported flat-tubular solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4319-4327.	3.8	38
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