Ru-Shi Liu

List of Publications by Year
in descending order

605 papers	34,802 citations	2970 93 h-index	5532 163 g-index
645 all docs	645 docs citations	645 times ranked	29911 citing authors

#	Article	IF	Citations
1	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. Nature Catalysis, 2018, 1, 985-992.	16.1	1,236
2	Plasmonic photocatalysis. Reports on Progress in Physics, 2013, 76, 046401.	8.1	1,140
3	Advances in Phosphors for Light-emitting Diodes. Journal of Physical Chemistry Letters, 2011, 2, 1268-1277.	2.1	1,099
4	Highly efficient non-rare-earth red emitting phosphor for warm white light-emitting diodes. Nature Communications, 2014, 5, 4312.	5.8	1,069
5	Mesoporous Silica Particles Integrated with Allâ€Inorganic CsPbBr₃ Perovskite Quantumâ€Dot Nanocomposites (MPâ€PQDs) with High Stability and Wide Color Gamut Used for Backlight Display. Angewandte Chemie - International Edition, 2016, 55, 7924-7929.	7.2	730
6	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. Journal of the American Chemical Society, 2019, 141, 20118-20126.	6.6	683
7	Nano-architecture and material designs for water splitting photoelectrodes. Chemical Society Reviews, 2012, 41, 5654.	18.7	483
8	Light Converting Inorganic Phosphors for White Light-Emitting Diodes. Materials, 2010, 3, 2172-2195.	1.3	480
9	Tunable Blue-Green Color Emission and Energy Transfer of Ca₂Al₃O₆F:Ce³⁺,Tb³⁺ Phosphors for Near-UV White LEDs. Journal of Physical Chemistry C, 2012, 116, 15604-15609.	1.5	445
10	The triggering of apoptosis in macrophages by pristine graphene through the MAPK and TGF-beta signaling pathways. Biomaterials, 2012, 33, 402-411.	5.7	444
11	The Effect of Surface Coating on Energy Migration-Mediated Upconversion. Journal of the American Chemical Society, 2012, 134, 20849-20857.	6.6	405
12	Critical Red Components for Next-Generation White LEDs. Journal of Physical Chemistry Letters, 2016, 7, 495-503.	2.1	401
13	Versatile Phosphate Phosphors ABPO₄ in White Light-Emitting Diodes: Collocated Characteristic Analysis and Theoretical Calculations. Journal of the American Chemical Society, 2010, 132, 3020-3028.	6.6	324
14	Thermally stable luminescence of KSrPO4:Eu2+ phosphor for white light UV light-emitting diodes. Applied Physics Letters, 2007, 90, 151108.	1.5	313
15	Plasmon Inducing Effects for Enhanced Photoelectrochemical Water Splitting: X-ray Absorption Approach to Electronic Structures. ACS Nano, 2012, 6, 7362-7372.	7.3	307
16	Super Broadband Near-Infrared Phosphors with High Radiant Flux as Future Light Sources for Spectroscopy Applications. ACS Energy Letters, 2018, 3, 2679-2684.	8.8	286
17	Origin of Thermal Degradation of Sr_{2â€“<i>x</i>}Si₅N₈:Eu_{<i>x</i>} Phosphors in Air for Light-Emitting Diodes. Journal of the American Chemical Society, 2012, 134, 14108-14117.	6.6	278
18	Ca2Al3O6F:Eu2+: a green-emitting oxyfluoride phosphor for white light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 15183.	6.7	267

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19	A Study on the Luminescence and Energy Transfer of Single-Phase and Color-Tunable KCaY(PO₄)₂:Eu²⁺,Mn²⁺ Phosphor for Application in White-Light LEDs. Inorganic Chemistry, 2012, 51, 9636-9641.	1.9	260
20	Quantum Dot Monolayer Sensitized ZnO Nanowireâ€Array Photoelectrodes: True Efficiency for Water Splitting. Angewandte Chemie - International Edition, 2010, 49, 5966-5969.	7.2	254
21	Photoluminescence Tuning via Cation Substitution in Oxonitridosilicate Phosphors: DFT Calculations, Different Site Occupations, and Luminescence Mechanisms. Chemistry of Materials, 2014, 26, 2991-3001.	3.2	244
22	Perovskite Quantum Dots and Their Application in Lightâ€Emitting Diodes. Small, 2018, 14, 1702433.	5.2	238
23	Harnessing the interplay of Feâ€"Ni atom pairs embedded in nitrogen-doped carbon for bifunctional oxygen electrocatalysis. Nano Energy, 2020, 71, 104597.	8.2	231
24	Biocompatibility of Fe₃O₄nanoparticles evaluated by<i>in vitro</i>cytotoxicity assays using normal, glia and breast cancer cells. Nanotechnology, 2010, 21, 075102.	1.3	230
25	High-Performance Lithium-Ion Battery and Symmetric Supercapacitors Based on FeCo₂O₄ Nanoflakes Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 22701-22708.	4.0	230
26	Narrow Red Emission Band Fluoride Phosphor KNaSiF₆:Mn⁴⁺ for Warm White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 11194-11203.	4.0	228
27	Recent Advancements in Li-Ion Conductors for All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2017, 2, 2734-2751.	8.8	226
28	Nanoâ€"bio effects: interaction of nanomaterials with cells. Nanoscale, 2013, 5, 3547.	2.8	223
29	Emission-Tunable CuInS₂/ZnS Quantum Dots: Structure, Optical Properties, and Application in White Light-Emitting Diodes with High Color Rendering Index. ACS Applied Materials & Interfaces, 2014, 6, 15379-15387.	4.0	222
30	Hollow Platinum Spheres with Nano-Channels: Synthesis and Enhanced Catalysis for Oxygen Reduction. Journal of Physical Chemistry C, 2008, 112, 7522-7526.	1.5	220
31	Recent advances in quantum dot-based light-emitting devices: Challenges and possible solutions. Materials Today, 2019, 24, 69-93.	8.3	213
32	Cation-Size-Mismatch Tuning of Photoluminescence in Oxynitride Phosphors. Journal of the American Chemical Society, 2012, 134, 8022-8025.	6.6	207
33	Seedless, silver-induced synthesis of star-shaped gold/silver bimetallic nanoparticles as high efficiency photothermal therapy reagent. Journal of Materials Chemistry, 2012, 22, 2244-2253.	6.7	205
34	Super-Hydrophobic Cesium Lead Halide Perovskite Quantum Dot-Polymer Composites with High Stability and Luminescent Efficiency for Wide Color Gamut White Light-Emitting Diodes. Chemistry of Materials, 2019, 31, 1042-1047.	3.2	203
35	Structural Ordering and Charge Variation Induced by Cation Substitution in (Sr,Ca)AlSiN₃:Eu Phosphor. Journal of the American Chemical Society, 2015, 137, 8936-8939.	6.6	198
36	Neighboring-Cation Substitution Tuning of Photoluminescence by Remote-Controlled Activator in Phosphor Lattice. Journal of the American Chemical Society, 2013, 135, 12504-12507.	6.6	191

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37	Enhanced Photoluminescence Emission and Thermal Stability from Introduced Cation Disorder in Phosphors. Journal of the American Chemical Society, 2017, 139, 11766-11770.	6.6	190
38	Synthesis of Na₂SiF₆:Mn⁴⁺ red phosphors for white LED applications by co-precipitation. Journal of Materials Chemistry C, 2014, 2, 10268-10272.	2.7	187
39	Ternary Spinel MCo₂O₄ (M = Mn, Fe, Ni, and Zn) Porous Nanorods as Bifunctional Cathode Materials for Lithiumâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2015, 7, 12038-12046.	4.0	186
40	Ca1âˆ’xLixAl1âˆ’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.	7.7	186
41	A low-temperature co-precipitation approach to synthesize fluoride phosphors K₂MF₆:Mn⁴⁺(M = Ge, Si) for white LED applications. Journal of Materials Chemistry C, 2015, 3, 1655-1660.	2.7	182
42	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. ACS Catalysis, 2017, 7, 1742-1748.	5.5	173
43	High Color Rendering Index of Rb₂GeF₆:Mn⁴⁺ for Light-Emitting Diodes. Chemistry of Materials, 2017, 29, 935-939.	3.2	172
44	Highly Stable Red Oxynitride Î²-SiAlON:Pr³⁺ Phosphor for Light-Emitting Diodes. Chemistry of Materials, 2011, 23, 3698-3705.	3.2	171
45	Silicon Anode Design for Lithium-Ion Batteries: Progress and Perspectives. Journal of Physical Chemistry C, 2017, 121, 27775-27787.	1.5	169
46	Evolutionary Generation of Phosphor Materials and Their Progress in Future Applications for Light-Emitting Diodes. Chemical Reviews, 2022, 122, 11474-11513.	23.0	167
47	Local Structure and First Cycle Redox Mechanism of Layered Li[sub 1.2]Cr[sub 0.4]Mn[sub 0.4]O[sub 2] Cathode Material. Journal of the Electrochemical Society, 2002, 149, A431.	1.3	165
48	Synthesis, Crystal Structure, and Luminescence Properties of a Novel Green-Yellow Emitting Phosphor LiZn_{1âˆ’<i>x</i>}PO₄:Mn_{<i>x</i>} for Light Emitting Diodes. Chemistry of Materials, 2008, 20, 1215-1217.	3.2	165
49	Ni@NiO Coreâ€“Shell Structure-Modified Nitrogen-Doped InTaO₄ for Solar-Driven Highly Efficient CO₂ Reduction to Methanol. Journal of Physical Chemistry C, 2011, 115, 10180-10186.	1.5	165
50	Controlling The Activator Site To Tune Europium Valence in Oxyfluoride Phosphors. Chemistry of Materials, 2012, 24, 2220-2227.	3.2	164
51	Robust and Stable Narrow-Band Green Emitter: An Option for Advanced Wide-Color-Gamut Backlight Display. Chemistry of Materials, 2016, 28, 8493-8497.	3.2	164
52	Perovskite Quantum Dots for Application in High Color Gamut Backlighting Display of Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 3374-3396.	8.8	162
53	Nitrate reduction to ammonium: from CuO defect engineering to waste NO_x-to-NH₃economic feasibility. Energy and Environmental Science, 2021, 14, 3588-3598.	15.6	161
54	Waterproof Alkyl Phosphate Coated Fluoride Phosphors for Optoelectronic Materials. Angewandte Chemie - International Edition, 2015, 54, 10862-10866.	7.2	160

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55	Architecture of Metallic Nanostructures: Synthesis Strategy and Specific Applications. Journal of Physical Chemistry C, 2011, 115, 3513-3527.	1.5	156
56	Unraveling the effect of salt chemistry on long-durability high-phosphorus-concentration anode for potassium ion batteries. Nano Energy, 2018, 53, 967-974.	8.2	151
57	Penetrating Biological Tissue Using Light-Emitting Diodes with a Highly Efficient Near-Infrared ScBO₃:Cr³⁺ Phosphor. Chemistry of Materials, 2020, 32, 2166-2171.	3.2	142
58	Plasmonic hot electrons for sensing, photodetection, and solar energy applications: A perspective. Journal of Chemical Physics, 2020, 152, 220901.	1.2	141
59	Combinatorial Approach to the Development of a Single Mass YVO₄:Bi³⁺,Eu³⁺ Phosphor with Red and Green Dual Colors for High Color Rendering White Light-Emitting Diodes. ACS Combinatorial Science, 2010, 12, 587-594.	3.3	140
60	Green Light-Excitable Ce-Doped Nitridomagnesoaluminate Sr[Mg₂Al₂N₄] Phosphor for White Light-Emitting Diodes. Chemistry of Materials, 2016, 28, 6822-6825.	3.2	138
61	Narrow-band red-emitting Mn⁴⁺-doped hexafluoride phosphors: synthesis, optoelectronic properties, and applications in white light-emitting diodes. Journal of Materials Chemistry C, 2016, 4, 10759-10775.	2.7	138
62	Heterostructure of Si and CoSe₂: A Promising Photocathode Based on a Nonâ€noble Metal Catalyst for Photoelectrochemical Hydrogen Evolution. Angewandte Chemie - International Edition, 2015, 54, 6211-6216.	7.2	134
63	Photoluminescent Evolution Induced by Structural Transformation Through Thermal Treating in the Red Narrow-Band Phosphor K₂GeF₆:Mn⁴⁺. ACS Applied Materials & Interfaces, 2015, 7, 10656-10659.	4.0	133
64	Highâ€Performance CsPb_{1âˆ’<i>x</i>}Sn_{<i>x</i>}Br₃ Perovskite Quantum Dots for Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2017, 56, 13650-13654.	7.2	133
65	Impact of Lanthanide Nanomaterials on Photonic Devices and Smart Applications. Small, 2018, 14, e1801882.	5.2	128
66	Synthesis and Luminescent Properties of a New Yellowish-Orange Afterglow Phosphor Y2O2S:Ti,Mg. Chemistry of Materials, 2003, 15, 3966-3968.	3.2	127
67	An oleic acid-capped CdSe quantum-dot sensitized solar cell. Applied Physics Letters, 2009, 94, .	1.5	126
68	Biosensing, Cytotoxicity, and Cellular Uptake Studies of Surface-Modified Gold Nanorods. Journal of Physical Chemistry C, 2009, 113, 7574-7578.	1.5	126
69	Chromium Ion Pair Luminescence: A Strategy in Broadband Near-Infrared Light-Emitting Diode Design. Journal of the American Chemical Society, 2021, 143, 19058-19066.	6.6	125
70	Cadmiumâ€Free InP/ZnSeS/ZnS Heterostructureâ€Based Quantum Dot Lightâ€Emitting Diodes with a ZnMgO Electron Transport Layer and a Brightness of Over 10 000 cd m^{âˆ’2}. Small, 2017, 13, 1603962.	5.2	124
71	An efficient multi-doping strategy to enhance Li-ion conductivity in the garnet-type solid electrolyte Li₇La₃Zr₂O₁₂. Journal of Materials Chemistry A, 2019, 7, 8589-8601.	5.2	124
72	Strategies for Designing Antithermalâ€Quenching Red Phosphors. Advanced Science, 2020, 7, 1903060.	5.6	121

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73	Facile Atmospheric Pressure Synthesis of High Thermal Stability and Narrow-Band Red-Emitting SrLiAl₃N₄:Eu²⁺ Phosphor for High Color Rendering Index White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 19612-19617.	4.0	120
74	Control of Narrow-Band Emission in Phosphor Materials for Application in Light-Emitting Diodes. ACS Energy Letters, 2018, 3, 2573-2586.	8.8	118
75	Eu^2+-activated silicon-oxynitride Ca_3Si_2O_4N_2: a green-emitting phosphor for white LEDs. Optics Express, 2011, 19, A331.	1.7	115
76	The Study of Nanocrystalline Cerium Oxide by X-Ray Absorption Spectroscopy. Journal of Solid State Chemistry, 2000, 149, 408-413.	1.4	112
77	Ultra-high-efficiency near-infrared Ga₂O₃:Cr³⁺ phosphor and controlling of phytochrome. Journal of Materials Chemistry C, 2020, 8, 11013-11017.	2.7	111
78	Hidden Structural Evolution and Bond Valence Control in Near-Infrared Phosphors for Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 109-114.	8.8	110
79	KBaPO4:Ln (Ln=Eu, Tb, Sm) phosphors for UV excitable white light-emitting diodes. Journal of Luminescence, 2009, 129, 1682-1684.	1.5	107
80	Diffusional mechanism of deintercalation in LiFe1â^’yMnyPO4 cathode material. Solid State Ionics, 2006, 177, 2617-2624.	1.3	106
81	Highly stable three-band white light from an InGaN-based blue light-emitting diode chip precoated with (oxy)nitride green/red phosphors. Applied Physics Letters, 2007, 90, 123503.	1.5	105
82	[INVITED] Near-infrared phosphors and their full potential: A review on practical applications and future perspectives. Journal of Luminescence, 2020, 219, 116944.	1.5	105
83	Full-Color and Thermally Stable KSrPO[sub 4]:Ln (Ln=Eu,â€‚Tb,â€‚Sm) Phosphors for White-Light-Emitting Diodes. Journal of the Electrochemical Society, 2008, 155, J248.	1.3	103
84	Near-ultraviolet excitable orange-yellow Sr3(Al2O5)Cl2:Eu2+ phosphor for potential application in light-emitting diodes. Applied Physics Letters, 2008, 93, .	1.5	103
85	O-<i>K</i> and Co-<i>L</i> XANES Study on Oxygen Intercalation in Perovskite SrCoO_{3-Î´}. Chemistry of Materials, 2010, 22, 70-76.	3.2	102
86	(Ba,Sr)Y2Si2Al2O2N5â€‰:â€‰Eu2+: a novel near-ultraviolet converting green phosphor for white light-emitting diodes. Journal of Materials Chemistry, 2011, 21, 3740.	6.7	100
87	Mesoporous ZnCo2O4 nanoflakes with bifunctional electrocatalytic activities toward efficiencies of rechargeable lithiumâ€“oxygen batteries in aprotic media. Nanoscale, 2013, 5, 12115.	2.8	100
88	Synthesis and Characterization of LiFePO[sub 4] and LiTi[sub 0.01]Fe[sub 0.99]PO[sub 4] Cathode Materials. Journal of the Electrochemical Society, 2006, 153, A25.	1.3	99
89	Characterization of coreâ€“shell type and alloy Ag/Au bimetallic clusters by using extended X-ray absorption fine structure spectroscopy. Chemical Physics Letters, 2006, 421, 118-123.	1.2	99
90	Preparation of a novel red Rb₂SiF₆:Mn⁴⁺phosphor with high thermal stability through a simple one-step approach. Journal of Materials Chemistry C, 2015, 3, 7277-7280.	2.7	98

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91	Determination of Ru valence from x-ray absorption near-edge structure inRuSr2GdCu2O8-type superconductors. Physical Review B, 2001, 63, .	1.1	97
92	The Origin of Capacity Fade in the Li₂MnO₃Â·Li<i>M</i>O₂ (<i>M</i>) Tj ETQq0 0 0 rgBT /Overlc Transmission X-ray Microscopy Study. Journal of the American Chemical Society, 2016, 138, 8824-8833.	6.6	96
93	Enhanced luminescence of SrSi2O2N2:Eu2+ phosphors by codoping with Ce3+, Mn2+, and Dy3+ ions. Applied Physics Letters, 2007, 91, 061119.	1.5	95
94	Broadband Cr³⁺, Sn⁴⁺â€Doped Oxide Nanophosphors for Infrared Mini Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2019, 58, 2069-2072.	7.2	95
95	Minimizing the Heat Effect of Photodynamic Therapy Based on Inorganic Nanocomposites Mediated by 808 nm Nearâ€Infrared Light. Small, 2017, 13, 1700038.	5.2	94
96	Control of Luminescence by Tuning of Crystal Symmetry and Local Structure in Mn⁴⁺â€Activated Narrow Band Fluoride Phosphors. Angewandte Chemie - International Edition, 2018, 57, 1797-1801.	7.2	93
97	Nitrogen-doped graphene nanosheet-supported non-precious iron nitride nanoparticles as an efficient electrocatalyst for oxygen reduction. RSC Advances, 2011, 1, 1349.	1.7	91
98	Chemical Pressure Control for Photoluminescence of MSiAl₂O₃N₂:Ce³⁺/Eu²⁺ (M = Sr, Ba) Oxynitride Phosphors. Chemistry of Materials, 2014, 26, 2075-2085.	3.2	91
99	Photocatalytic CdSe QDs-decorated ZnO nanotubes: an effective photoelectrode for splitting water. Chemical Communications, 2011, 47, 3493.	2.2	90
100	Superconductivity up to 90 K in a New Family of the (Pb,Hg)Sr2(Ca,Y)Cu2O7 System. Journal of Solid State Chemistry, 1993, 103, 280-286.	1.4	89
101	Eu substitution and particle size control of Y2O2S for the excitation by UV light emitting diodes. Solid State Communications, 2005, 136, 205-209.	0.9	86
102	A New Approach to Solar Hydrogen Production: a ZnOâ€"ZnS Solid Solution Nanowire Array Photoanode. Advanced Energy Materials, 2011, 1, 742-747.	10.2	86
103	Plasmon-Enhanced Photodynamic Cancer Therapy by Upconversion Nanoparticles Conjugated with Au Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 32108-32119.	4.0	86
104	Superconductivity and the metal-semiconductor transition in the septenary oxide system, (Tl0.5Pb0.5)(Ca1â^'yYy)Sr2Cu2O7â^'Î´. Journal of Solid State Chemistry, 1990, 86, 334-339.	1.4	85
105	Study of electrochemical properties of coating ZrO2 on LiCoO2. Journal of Alloys and Compounds, 2010, 496, 512-516.	2.8	85
106	Enhance Color Rendering Index via Full Spectrum Employing the Important Key of Cyan Phosphor. ACS Applied Materials & Interfaces, 2016, 8, 30677-30682.	4.0	85
107	Improving Optical Properties of White LED Fabricated by a Blue LED Chip with Yellow/Red Phosphors. Journal of the Electrochemical Society, 2010, 157, H900.	1.3	84
108	Chromium(III)-Doped Fluoride Phosphors with Broadband Infrared Emission for Light-Emitting Diodes. Inorganic Chemistry, 2020, 59, 376-385.	1.9	84

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109	Synthesis of Y[sub 2]O[sub 3]:Eu, Bi Red Phosphors by Homogeneous Coprecipitation and Their Photoluminescence Behaviors. Journal of the Electrochemical Society, 2005, 152, J93.	1.3	83
110	ZnB_2O_4:Bi^3+,Eu^3+:a highly efficient, red-emitting phosphor. Optics Express, 2010, 18, 2946.	1.7	82
111	Flower-like ZnCo2O4 nanowires: toward a high-performance anode material for Li-ion batteries. RSC Advances, 2013, 3, 20143.	1.7	82
112	Mesoporous Silica Particles Integrated with Allâ€Inorganic CsPbBr₃ Perovskite Quantumâ€Dot Nanocomposites (MPâ€PQDs) with High Stability and Wide Color Gamut Used for Backlight Display. Angewandte Chemie, 2016, 128, 8056-8061.	1.6	81
113	A study on LiFePO4 and its doped derivatives as cathode materials for lithium-ion batteries. Journal of Power Sources, 2006, 159, 282-286.	4.0	77
114	Evaluations of the Chemical Stability and Cytotoxicity of CuInS₂ and CuInS₂/ZnS Core/Shell Quantum Dots. Journal of Physical Chemistry C, 2015, 119, 2852-2860.	1.5	77
115	Plasmonic ZnO/Ag Embedded Structures as Collecting Layers for Photogenerating Electrons in Solar Hydrogen Generation Photoelectrodes. Small, 2013, 9, 2926-2936.	5.2	76
116	Synthesis of Ag nanospheres particles in ethylene glycol by electrochemical-assisted polyol process. Chemical Physics Letters, 2006, 420, 304-308.	1.2	75
117	Single-phased white-light-emitting Ca₄(PO₄)₂O:Ce³⁺,Eu²⁺ phosphors based on energy transfer. Dalton Transactions, 2015, 44, 11399-11407.	1.6	75
118	Structure, Luminescence, and Application of a Robust Carbidonitride Blue Phosphor (Al_{1â€"<i>x</i>}Si_{<i>x</i>}C_{<i>x</i>}N_{1â€"<i>x</i>}:Eu²⁺) for Near UV-LED Driven Solid State Lighting. Chemistry of Materials, 2015, 27, 8457-8466.	3.2	75
119	Single 808 nm Laser Treatment Comprising Photothermal and Photodynamic Therapies by Using Gold Nanorods Hybrid Upconversion Particles. Journal of Physical Chemistry C, 2018, 122, 2402-2412.	1.5	74
120	Integrated Surface Modification to Enhance the Luminescence Properties of K₂TiF₆:Mn⁴⁺ Phosphor and Its Application in White-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 29233-29237.	4.0	74
121	Recent Developments in Leadâ€Free Double Perovskites: Structure, Doping, and Applications. Chemistry - an Asian Journal, 2020, 15, 242-252.	1.7	74
122	Combinatorial chemistry approach to searching phosphors for white light-emitting diodes in (Gd-Y-Bi-Eu)VO4 quaternary system. Journal of Materials Chemistry, 2011, 21, 3677.	6.7	73
123	Single-phased white-light-emitting KCaGd(PO4)2:Eu2+,Tb3+,Mn2+ phosphors for LED applications. RSC Advances, 2013, 3, 9023.	1.7	73
124	Graphitic carbon nitride-based nanocomposites and their biological applications: a review. Nanoscale, 2019, 11, 14993-15003.	2.8	72
125	Investigation of the Luminescent Properties of Tb[sup 3+]-Substituted YAG:Ce, Gd Phosphors. Journal of the Electrochemical Society, 2005, 152, J41.	1.3	71
126	Synthesis and Characterization of Multi-Pod-Shaped Gold/Silver Nanostructures. Journal of Physical Chemistry C, 2007, 111, 5909-5914.	1.5	71

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127	Voltammetric Enhancement of Li-Ion Conduction in Al-Doped Li_{7â€“<i>x</i>}La₃Zr₂O₁₂ Solid Electrolyte. Journal of Physical Chemistry C, 2017, 121, 15565-15573.	1.5	71
128	Versatile phosphors BaY_2Si_3O_10:RE (RE = Ce^3+, Tb^3+, Eu^3+) for light-emitting diodes. Optics Express, 2009, 17, 18103.	1.7	70
129	Structure, composition, morphology, photoluminescence and cathodoluminescence properties of ZnGeN2 and ZnGeN2:Mn2+ for field emission displays. Acta Materialia, 2010, 58, 6728-6735.	3.8	70
130	Near-Infrared Light-Mediated Photodynamic Therapy Nanoplatform by the Electrostatic Assembly of Upconversion Nanoparticles with Graphitic Carbon Nitride Quantum Dots. Inorganic Chemistry, 2016, 55, 10267-10277.	1.9	69
131	Microfluidic Synthesis of Semiconducting Colloidal Quantum Dots and Their Applications. ACS Applied Nano Materials, 2019, 2, 1773-1790.	2.4	69
132	Transforming active sites in nickelâ€“nitrogenâ€“carbon catalysts for efficient electrochemical CO2 reduction to CO. Nano Energy, 2020, 78, 105213.	8.2	69
133	An integrated cobalt disulfide (CoS₂) co-catalyst passivation layer on silicon microwires for photoelectrochemical hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 23466-23476.	5.2	68
134	Designing Undercoordinated Niâ€“N_{<i>x</i>} and Feâ€“N_{<i>x</i>} on Holey Graphene for Electrochemical CO₂ Conversion to Syngas. ACS Nano, 2021, 15, 12006-12018.	7.3	68
135	Ni²⁺-Doped Garnet Solid-Solution Phosphor-Converted Broadband Shortwave Infrared Light-Emitting Diodes toward Spectroscopy Application. ACS Applied Materials & Interfaces, 2022, 14, 4265-4275.	4.0	68
136	Controlling the Length and Shape of Gold Nanorods. Journal of Physical Chemistry B, 2005, 109, 19553-19555.	1.2	67
137	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. Journal of Physical Chemistry C, 2011, 115, 21971-21980.	1.5	67
138	Fast Fabrication of a Ag Nanostructure Substrate Using the Femtosecond Laser for Broad-Band and Tunable Plasmonic Enhancement. ACS Nano, 2012, 6, 5190-5197.	7.3	67
139	Significant Improved Luminescence Intensity of Eu[sup 2+]-Doped Ca[sub 3]SiO[sub 4]Cl[sub 2] Green Phosphor for White LEDs Synthesized Through Two-Stage Method. Journal of the Electrochemical Society, 2009, 156, G29.	1.3	66
140	Ameliorating Interfacial Ionic Transportation in All-Solid-State Li-Ion Batteries with Interlayer Modifications. ACS Energy Letters, 2018, 3, 2775-2795.	8.8	66
141	Combinatorial Study of the Optimization of Y2O3:Bi,Eu Red Phosphors. ACS Combinatorial Science, 2007, 9, 343-346.	3.3	65
142	Particle Size Effect on the Packaging Performance of YAG:Ce Phosphors in White LEDs. International Journal of Applied Ceramic Technology, 2009, 6, 465-469.	1.1	65
143	Effects of additional Ce3+ doping on the luminescence of Li2SrSiO4:Eu2+ yellow phosphor. Applied Physics Letters, 2010, 96, .	1.5	65
144	Plasmon-induced hyperthermia: hybrid upconversion NaYF₄:Yb/Er and gold nanomaterials for oral cancer photothermal therapy. Journal of Materials Chemistry B, 2015, 3, 8293-8302.	2.9	65

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