

Jae Su Yu

List of Publications by Year in descending order

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458
papers

16,900
citations

15495

65
h-index

33869

99
g-index

460
all docs

460
docs citations

460
times ranked

14429
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile synthesis of bifunctional Eu ³⁺ -activated NaBiF ₄ red-emitting nanoparticles for simultaneous white light-emitting diodes and field emission displays. <i>Chemical Engineering Journal</i> , 2018, 337, 91-100.	6.6	374
2	Hierarchical Ni-Co layered double hydroxide nanosheets entrapped on conductive textile fibers: a cost-effective and flexible electrode for high-performance pseudocapacitors. <i>Nanoscale</i> , 2016, 8, 812-825.	2.8	327
3	Conductive silver nanowires-fenced carbon cloth fibers-supported layered double hydroxide nanosheets as a flexible and binder-free electrode for high-performance asymmetric supercapacitors. <i>Nano Energy</i> , 2017, 36, 58-67.	8.2	291
4	Wearable Fabrics with Self-Branched Bimetallic Layered Double Hydroxide Coaxial Nanostructures for Hybrid Supercapacitors. <i>ACS Nano</i> , 2017, 11, 10860-10874.	7.3	259
5	Metallic Layered Polyester Fabric Enabled Nickel Selenide Nanostructures as Highly Conductive and Binderless Electrode with Superior Energy Storage Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1601362.	10.2	259
6	High-performance pouch-type hybrid supercapacitor based on hierarchical NiO-Co ₃ O ₄ -NiO composite nanoarchitectures as an advanced electrode material. <i>Nano Energy</i> , 2018, 48, 81-92.	8.2	251
7	An Ultrahigh-Performance Photodetector based on a Perovskite-Transition-Metal-Dichalcogenide Hybrid Structure. <i>Advanced Materials</i> , 2016, 28, 7799-7806.	11.1	242
8	Highly efficient low temperature solution processable planar type CH ₃ NH ₃ PbI ₃ perovskite flexible solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1572-1578.	5.2	223
9	Citric-assisted sol-gel based Er ³⁺ /Yb ³⁺ -codoped Na _{0.5} Gd _{0.5} MoO ₄ : A novel highly-efficient infrared-to-visible upconversion material for optical temperature sensors and optical heaters. <i>Chemical Engineering Journal</i> , 2016, 306, 840-848.	6.6	180
10	PDMS-based Triboelectric and Transparent Nanogenerators with ZnO Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6631-6637.	4.0	168
11	Ultrafast synthesis of bifunctional Er ³⁺ /Yb ³⁺ -codoped NaBiF ₄ upconverting nanoparticles for nanothermometer and optical heater. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 172-181.	5.0	167
12	Highly-flexible piezoelectric nanogenerators with silver nanowires and barium titanate embedded composite films for mechanical energy harvesting. <i>Applied Energy</i> , 2018, 230, 865-874.	5.1	162
13	Efficiency Enhancement of Organic Solar Cells Using Hydrophobic Antireflective Inverted Moth-Eye Nanopatterned PDMS Films. <i>Advanced Energy Materials</i> , 2014, 4, 1301315.	10.2	151
14	Bioinspired Parabola Subwavelength Structures for Improved Broadband Antireflection. <i>Small</i> , 2010, 6, 984-987.	5.2	150
15	Near-ultraviolet light induced visible emissions in Er ³⁺ -activated La ₂ MoO ₆ nanoparticles for solid-state lighting and non-contact thermometry. <i>Chemical Engineering Journal</i> , 2017, 327, 109-119.	6.6	149
16	A novel strategy for controllable emissions from Eu ³⁺ or Sm ³⁺ ions co-doped SrY ₂ O ₄ :Tb ³⁺ phosphors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11296.	1.3	142
17	Utilizing Waste Cable Wires for High-Performance Fiber-Based Hybrid Supercapacitors: An Effective Approach to Electronic-Waste Management. <i>Advanced Energy Materials</i> , 2018, 8, 1702201.	10.2	140
18	Yb ³⁺ -Concentration dependent upconversion luminescence and temperature sensing behavior in Yb ³⁺ /Er ³⁺ codoped Gd ₂ MoO ₆ nanocrystals prepared by a facile citric-assisted sol-gel method. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1987-1995.	3.0	138

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19	Nanopillar-array architected PDMS-based triboelectric nanogenerator integrated with a windmill model for effective wind energy harvesting. <i>Nano Energy</i> , 2017, 42, 269-281.	8.2	136
20	Rapid synthesis of hexagonal NiCo ₂ O ₄ nanostructures for high-performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2019, 299, 509-517.	2.6	133
21	Multifunctional nanoparticles: recent progress in cancer therapeutics. <i>Chemical Communications</i> , 2015, 51, 13248-13259.	2.2	131
22	Energy transfer from VO ₄ ³⁻ group to Sm ³⁺ ions in Ba ₃ (VO ₄) ₂ :3xSm ³⁺ microparticles: A bifunctional platform for simultaneous optical thermometer and safety sign. <i>Chemical Engineering Journal</i> , 2018, 352, 352-359.	6.6	129
23	Low-temperature thermometry based on upconversion emission of Ho/Yb-codoped Ba _{0.77} Ca _{0.23} TiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2015, 632, 73-77.	2.8	127
24	Strong red emission in Eu ³⁺ /Bi ³⁺ ions codoped CaWO ₄ phosphors for white light-emitting diode and field-emission display applications. <i>Journal of Alloys and Compounds</i> , 2015, 633, 37-41.	2.8	121
25	Wearable and durable triboelectric nanogenerators via polyaniline coated cotton textiles as a movement sensor and self-powered system. <i>Nano Energy</i> , 2019, 55, 305-315.	8.2	117
26	Antireflective submicrometer gratings on thin-film silicon solar cells for light-absorption enhancement. <i>Optics Letters</i> , 2010, 35, 276.	1.7	116
27	Synthesis and luminescent properties of Eu ³⁺ -activated Na _{0.5} Gd _{0.5} MoO ₄ : A strong red-emitting phosphor for LED and FED applications. <i>Journal of Luminescence</i> , 2016, 179, 451-456.	1.5	115
28	Excellent photoluminescence and cathodoluminescence properties in Eu ³⁺ -activated Sr ₂ LaNbO ₆ materials for multifunctional applications. <i>Chemical Engineering Journal</i> , 2021, 406, 127154.	6.6	113
29	Wearable Single-Electrode-Mode Triboelectric Nanogenerator via Conductive Polymer-Coated Textiles for Self-Power Electronics. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16450-16458.	3.2	109
30	Design of highly transparent glasses with broadband antireflective subwavelength structures. <i>Optics Express</i> , 2010, 18, 13063.	1.7	102
31	Paper-Based Surface-Enhanced Raman Spectroscopy for Diagnosing Prenatal Diseases in Women. <i>ACS Nano</i> , 2018, 12, 7100-7108.	7.3	101
32	An Integrated Approach Toward Renewable Energy Storage Using Rechargeable Ag@Ni _{0.67} Co _{0.33} S ₈ -Based Hybrid Supercapacitors. <i>Small</i> , 2019, 15, e1805418.	5.2	101
33	High-performance hybrid supercapacitors based on MOF-derived hollow ternary chalcogenides. <i>Energy Storage Materials</i> , 2021, 35, 750-760.	9.5	101
34	Humidity Sustained Wearable Pouch-Type Triboelectric Nanogenerator for Harvesting Mechanical Energy from Human Activities. <i>Advanced Functional Materials</i> , 2019, 29, 1807779.	7.8	99
35	A facile one-step approach to hierarchically assembled core-shell-like MnO ₂ @MnO ₂ nanoarchitectures on carbon fibers: An efficient and flexible electrode material to enhance energy storage. <i>Nano Research</i> , 2016, 9, 1507-1522.	5.8	98
36	A facile and efficient strategy for the preparation of stable CaMoO ₄ spherulites using ammonium molybdate as a molybdenum source and their excitation induced tunable luminescent properties for optical applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 15562.	6.7	97

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37	Broad near-ultraviolet and blue excitation band induced dazzling red emissions in Eu ³⁺ -activated Gd ₂ MoO ₆ phosphors for white light-emitting diodes. RSC Advances, 2017, 7, 3170-3178.	1.7	96
38	Enhanced Performance of Microarchitected PTFE-Based Triboelectric Nanogenerator via Simple Thermal Imprinting Lithography for Self-Powered Electronics. ACS Applied Materials & Interfaces, 2018, 10, 24181-24192.	4.0	87
39	Silver nanoparticles deposited multiwalled carbon nanotubes for removal of Cu(II) and Cd(II) from water: Surface, kinetic, equilibrium, and thermal adsorption properties. Chemical Engineering Journal, 2013, 223, 806-815.	6.6	85
40	Hydrothermal Synthesis and Photocatalytic Property of In^{2+} -Ga ₂ O ₃ Nanorods. Nanoscale Research Letters, 2015, 10, 364.	3.1	84
41	Highly Transparent and Flexible Triboelectric Nanogenerators with Subwavelength-Architected Polydimethylsiloxane by a Nanoporous Anodic Aluminum Oxide Template. ACS Applied Materials & Interfaces, 2015, 7, 20520-20529.	4.0	83
42	Broadband near-ultraviolet excited La ₂ Mo ₂ O ₉ :Eu ³⁺ red-emitting phosphors with high color purity for solid-state lighting. Journal of Alloys and Compounds, 2019, 783, 969-976.	2.8	83
43	Label-Free Surface-Enhanced Raman Spectroscopy Biosensor for On-Site Breast Cancer Detection Using Human Tears. ACS Applied Materials & Interfaces, 2020, 12, 7897-7904.	4.0	83
44	Broadband and omnidirectional highly-transparent coverglasses coated with biomimetic moth-eye nanopatterned polymer films for solar photovoltaic system applications. Solar Energy Materials and Solar Cells, 2015, 134, 45-53.	3.0	82
45	High-Performance Flexible Piezoelectric-Assisted Triboelectric Hybrid Nanogenerator via Polydimethylsiloxane-Encapsulated Nanoflower-like ZnO Composite Films for Scavenging Energy from Daily Human Activities. ACS Sustainable Chemistry and Engineering, 2018, 6, 8525-8535.	3.2	82
46	Rational design of forest-like nickel sulfide hierarchical architectures with ultrahigh areal capacity as a binder-free cathode material for hybrid supercapacitors. Journal of Materials Chemistry A, 2018, 6, 13178-13190.	5.2	82
47	Self-activated multicolor emissions in Ca ₂ NaZn ₂ (VO ₄) ₃ :Eu ³⁺ phosphors for simultaneous warm white light-emitting diodes and safety sign. Dyes and Pigments, 2017, 147, 16-23.	2.0	81
48	Effect of molybdenum on upconversion emission and temperature sensing properties in Na _{0.5} Bi _{0.5} TiO ₃ :Er/Yb ceramics. Ceramics International, 2015, 41, 6710-6714.	2.3	79
49	Dual-enhancement of photoluminescence and cathodoluminescence in Eu ³⁺ -activated SrMoO ₄ phosphors by Na ⁺ doping. RSC Advances, 2015, 5, 60121-60127.	1.7	78
50	CH ₃ NH ₃ PbI ₃ planar perovskite solar cells with antireflection and self-cleaning function layers. Journal of Materials Chemistry A, 2016, 4, 7573-7579.	5.2	78
51	Upconversion emission, cathodoluminescence and temperature sensing behaviors of Yb ³⁺ ions sensitized NaY(WO ₄) ₂ :Er ³⁺ phosphors. Ceramics International, 2016, 42, 5635-5641.	2.3	78
52	Closely packed and aspect-ratio-controlled antireflection subwavelength gratings on GaAs using a lenslike shape transfer. Optics Letters, 2009, 34, 1702.	1.7	77
53	Concentration and penetration depth dependent tunable emissions from Eu ³⁺ -co-doped SrY ₂ O ₄ :Dy ³⁺ nanocrystalline phosphor. New Journal of Chemistry, 2014, 38, 163-169.	1.4	77
54	Enabling redox chemistry with hierarchically designed bilayered nanoarchitectures for pouch-type hybrid supercapacitors: A sunlight-driven rechargeable energy storage system to portable electronics. Nano Energy, 2018, 50, 448-461.	8.2	75

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55	Cobalt-doped zinc manganese oxide porous nanocubes with controlled morphology as positive electrode for hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 361, 1030-1042.	6.6	74
56	Novel rare-earth-free yellow $\text{Ca}_5\text{Zn}_3.92\text{In}_0.08(\text{VO}_0.99\text{Ta}_0.01\text{O}_4)_6$ phosphors for dazzling white light-emitting diodes. <i>Scientific Reports</i> , 2015, 5, 10296.	1.6	73
57	Enhanced transmittance and hydrophilicity of nanostructured glass substrates with antireflective properties using disordered gold nanopatterns. <i>Optics Express</i> , 2012, 20, 4056.	1.7	72
58	Energy transfer mechanism and color controllable luminescence in $\text{Dy}^{3+}/\text{Eu}^{3+}$ -codoped $\text{NaLa}(\text{MoO}_4)_2$ phosphors. <i>Journal of Alloys and Compounds</i> , 2015, 653, 468-473.	2.8	71
59	Harsh environment-tolerant and robust triboelectric nanogenerators for mechanical-energy harvesting, sensing, and energy storage in a smart home. <i>Nano Energy</i> , 2021, 80, 105547.	8.2	71
60	Glancing angle deposited ITO films for efficiency enhancement of a-Si:H/ $\sqrt{1/4}$ c-Si:H tandem thin film solar cells. <i>Optics Express</i> , 2011, 19, A258.	1.7	69
61	Evolution of $\text{CaGd}_2\text{ZnO}_5\text{:Eu}^{3+}$ nanostructures for rapid visualization of latent fingerprints. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4246-4256.	2.7	69
62	Rare-earth free self-luminescent $\text{Ca}_2\text{KZn}_2(\text{VO}_4)_3$ phosphors for intense white light-emitting diodes. <i>Scientific Reports</i> , 2017, 7, 42348.	1.6	68
63	Metal-Organic Framework-Derived $\text{Co}_3\text{V}_2\text{O}_8@\text{CuV}_2\text{O}_6$ Hybrid Architecture as a Multifunctional Binder-Free Electrode for Li-Ion Batteries and Hybrid Supercapacitors. <i>Small</i> , 2020, 16, e2003983.	5.2	68
64	Integrated Design of Highly Porous Cellulose-Loaded Polymer-Based Triboelectric Films toward Flexible, Humidity-Resistant, and Sustainable Mechanical Energy Harvesters. <i>ACS Energy Letters</i> , 2020, 5, 2140-2148.	8.8	68
65	Pechini synthesis of lanthanide ($\text{Eu}^{3+}/\text{Tb}^{3+}$ or Dy^{3+}) ions activated BaGd_2O_4 nanostructured phosphors: an approach for tunable emissions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18124.	1.3	67
66	Three-dimensional activated porous carbon with meso/macropore structures derived from fallen pine cone flowers: A low-cost counter electrode material in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 693, 1297-1304.	2.8	67
67	Highly flexible conductive fabrics with hierarchically nanostructured amorphous nickel tungsten tetraoxide for enhanced electrochemical energy storage. <i>Nano Research</i> , 2015, 8, 3749-3763.	5.8	65
68	Engineering squandered cotton into eco-benign microarchitected triboelectric films for sustainable and highly efficient mechanical energy harvesting. <i>Nano Energy</i> , 2019, 61, 505-516.	8.2	65
69	Effect of AZO seed layer on electrochemical growth and optical properties of ZnO nanorod arrays on ITO glass. <i>Nanotechnology</i> , 2011, 22, 445602.	1.3	64
70	Hydrothermal synthesis and application of Ho^{3+} -activated NaYbF_4 bifunctional upconverting nanoparticles for in vitro cell imaging and latent fingerprint detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 584-591.	4.0	64
71	Ternary MOF-Based Redox Active Sites Enabled 3D-on-2D Nanoarchitected Battery-Type Electrodes for High-Energy-Density Supercapacitors. <i>Nano-Micro Letters</i> , 2021, 13, 17.	14.4	64
72	Eu^{3+} ion concentration induced 3D luminescence properties of novel red-emitting $\text{Ba}_4\text{La}_6(\text{SiO}_4)_2\text{O}\text{:Eu}^{3+}$ oxyapatite phosphors for versatile applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1039-1050.	2.7	63

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73	UV excitation band induced novel Na ₃ Gd(VO ₄) ₂ :RE ³⁺ (RE ³⁺ =Eu ³⁺ or Dy ³⁺ or Sm ³⁺) double vanadate phosphors for solid-state lightning applications. <i>Journal of Alloys and Compounds</i> , 2018, 739, 218-226.	2.8	63
74	Enhancing the output performance of hybrid nanogenerators based on Al-doped BaTiO ₃ composite films: a self-powered utility system for portable electronics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16101-16110.	5.2	63
75	Photoluminescence and cathodoluminescence properties of Eu ³⁺ ions activated AMoO ₄ (A=Mg, Ca, Sr). <i>TJ ETQq1</i> 1, 0.784314 rgBT / 0.61	2.7	61
76	Facile synthesis of Er ³⁺ /Yb ³⁺ -codoped NaYF ₄ nanoparticles: a promising multifunctional upconverting luminescent material for versatile applications. <i>RSC Advances</i> , 2016, 6, 94539-94546.	1.7	61
77	Light-extraction enhancement of a GaN-based LED covered with ZnO nanorod arrays. <i>Nanoscale</i> , 2014, 6, 4371-4378.	2.8	60
78	High transparency and triboelectric charge generation properties of nano-patterned PDMS. <i>RSC Advances</i> , 2014, 4, 10216.	1.7	60
79	Aqueous asymmetric supercapacitors based on ZnCo ₂ O ₄ nanoparticles via facile combustion method. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152456.	2.8	59
80	Ultrathin nickel hydroxide nanosheet arrays grafted biomass-derived honeycomb-like porous carbon with improved electrochemical performance as a supercapacitive material. <i>Scientific Reports</i> , 2017, 7, 45201.	1.6	58
81	Eu ³⁺ -activated La ₂ MoO ₆ -La ₂ WO ₆ red-emitting phosphors with ultrabroad excitation band for white light-emitting diodes. <i>Scientific Reports</i> , 2017, 7, 11953.	1.6	58
82	Synthesis of Er(III)/Yb(III)-doped BiF ₃ upconversion nanoparticles for use in optical thermometry. <i>Mikrochimica Acta</i> , 2018, 185, 237.	2.5	58
83	Exploring the theoretical and experimental optimization of high-performance triboelectric nanogenerators using microarchitected silk cocoon films. <i>Nano Energy</i> , 2020, 74, 104882.	8.2	58
84	Designed construction of yolk-shell structured trimanganese tetraoxide nanospheres via polar solvent-assisted etching and biomass-derived activated porous carbon materials for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15808-15821.	5.2	57
85	Synthesis and luminescence properties of color-tunable Dy ³⁺ -activated CaWO ₄ phosphors. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	56
86	A facile drop-casting approach to nanostructured copper oxide-painted conductive woven textile as binder-free electrode for improved energy storage performance in redox-additive electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2224-2234.	5.2	55
87	Selective combination of highly porous hollow structured bimetallic spinel oxides with improved redox chemistry for electrochemical hybrid capacitor. <i>Energy Storage Materials</i> , 2020, 27, 405-417.	9.5	55
88	Strong Green Emission of Erbium(III)-Activated La ₂ MgTiO ₆ Phosphors for Solid-State Lighting and Optical Temperature Sensors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5105-5115.	3.2	55
89	Synthesis and luminescent properties of novel red-emitting CaGd ₄ O ₇ : Eu ³⁺ nanocrystalline phosphors. <i>Journal of Alloys and Compounds</i> , 2013, 553, 291-298.	2.8	54
90	Luminescence properties and energy transfer behavior of single-component NaY(WO ₄) ₂ :Tm ³⁺ /Dy ³⁺ /Eu ³⁺ phosphors for ultraviolet-excited white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2016, 673, 426-432.	2.8	54

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91	Simultaneous phase and size manipulation in NaYF ₄ :Er ³⁺ /Yb ³⁺ upconverting nanoparticles for a non-invasion optical thermometer. <i>New Journal of Chemistry</i> , 2017, 41, 13855-13861.	1.4	54
92	Realizing highly efficient multicolor tunable emissions from Tb ³⁺ and Eu ³⁺ co-doped CaGd ₂ (WO ₄) ₄ phosphors via energy transfer by single ultraviolet excitation for lighting and display applications. <i>Dyes and Pigments</i> , 2018, 151, 202-210.	2.0	54
93	Beam steering in high-power CW quantum-cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 833-841.	1.0	53
94	Photoluminescence and Cathodoluminescence Properties of Nanocrystalline Ca ₂ Gd ₈ Si ₆ O ₂₆ :Sm ³⁺ . <i>Journal of the American Ceramic Society</i> , 2012, 95, 238-242.	1.9	53
95	Red and green colors emitting spherical-shaped calcium molybdate nanophosphors for enhanced latent fingerprint detection. <i>Scientific Reports</i> , 2017, 7, 11571.	1.6	53
96	Blue and green emissions with high color purity from nanocrystalline Ca ₂ Gd ₈ Si ₆ O ₂₆ :Ln (Ln = Tm or Tj) phosphors. <i>Optics Express</i> , 2017, 25, 10710-10718.	2.8	52
97	Facile template free synthesis of Gd ₂ O ₃ (CO ₃) ₂ ·H ₂ O chrysanthemum-like nanoflowers and luminescence properties of corresponding Gd ₂ O ₃ :RE ³⁺ spheres. <i>Dalton Transactions</i> , 2013, 42, 11400.	1.6	52
98	Broad red-emission of Sr ₃ Y ₂ Ge ₃ O ₁₂ :Eu ²⁺ garnet phosphors under blue excitation for warm WLED applications. <i>RSC Advances</i> , 2017, 7, 13281-13288.	1.7	52
99	Highly Reproducible Au-Decorated ZnO Nanorod Array on a Graphite Sensor for Classification of Human Aqueous Humors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5891-5899.	4.0	52
100	Boosting Light Harvesting in Perovskite Solar Cells by Biomimetic Inverted Hemispherical Architected Polymer Layer with High Haze Factor as an Antireflective Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13113-13123.	4.0	52
101	Eu ³⁺ -activated double perovskite Sr ₃ MoO ₆ phosphors with excellent color purity for high CRI WLEDs and flexible display film. <i>Ceramics International</i> , 2019, 45, 18604-18613.	2.3	52
102	Piezo/triboelectric hybrid nanogenerators based on Ca-doped barium zirconate titanate embedded composite polymers for wearable electronics. <i>Composites Science and Technology</i> , 2020, 188, 107963.	3.8	52
103	Strong red emission with excellent thermal stability in double-perovskite type Ba ₂ GdSbO ₆ :Eu ³⁺ phosphors for potential field-emission displays. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155389.	2.8	52
104	Multifunctional light escaping architecture inspired by compound eye surface structures: From understanding to experimental demonstration. <i>Optics Express</i> , 2011, 19, A157.	1.7	51
105	Synthesis, structural and optical properties of BaMoO ₄ :Eu ³⁺ shuttle like phosphors. <i>Materials Research Bulletin</i> , 2014, 53, 49-53.	2.7	51
106	Tricobalt tetroxide nanoplate arrays on flexible conductive fabric substrate: Facile synthesis and application for electrochemical supercapacitors. <i>Journal of Power Sources</i> , 2015, 283, 251-259.	4.0	51
107	Multi-stacked PDMS-based triboelectric generators with conductive textile for efficient energy harvesting. <i>RSC Advances</i> , 2015, 5, 6437-6442.	1.7	50
108	Wire-shaped ultraviolet photodetectors based on a nanostructured NiO/ZnO coaxial p-n heterojunction via thermal oxidation and hydrothermal growth processes. <i>Nanoscale</i> , 2015, 7, 2735-2742.	2.8	50

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109	Synergistic Effects of Cobalt Molybdate@Phosphate Core-Shell Architectures with Ultrahigh Capacity for Rechargeable Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 41245-41257.	4.0	50
110	Biomimetic artificial Si compound eye surface structures with broadband and wide-angle antireflection properties for Si-based optoelectronic applications. Nanoscale, 2013, 5, 10455.	2.8	49
111	Sol-gel synthesis of Eu ³⁺ /Bi ³⁺ ions co-doped BaLa ₂ WO ₇ phosphors for red-LEDs under NUV excitation and FEDs applications. Journal of Luminescence, 2017, 183, 39-47.	1.5	49
112	Facile preparation and optoelectronic properties of CuO nanowires for violet light sensing. Materials Letters, 2014, 117, 217-220.	1.3	48
113	Versatile properties of CaGd ₂ ZnO ₅ :Eu ³⁺ nanophosphor: its compatibility for lighting and optical display applications. Dalton Transactions, 2015, 44, 1790-1799.	1.6	48
114	High-performance and cost-effective triboelectric nanogenerators by sandpaper-assisted micropatterned polytetrafluoroethylene. Energy, 2018, 165, 677-684.	4.5	48
115	Controlled synthesis and upconversion luminescence of Tm ³⁺ -doped NaYbF ₄ nanoparticles for non-invasion optical thermometry. Journal of Alloys and Compounds, 2018, 739, 926-933.	2.8	47
116	Triboelectric nanogenerators with gold-thin-film-coated conductive textile as floating electrode for scavenging wind energy. Nano Research, 2018, 11, 101-113.	5.8	47
117	Synthesis and luminescence properties of reddish-orange-emitting Ca ₂ GdNbO ₆ :Sm ³⁺ phosphors with good thermal stability for high CRI white applications. Ceramics International, 2021, 47, 6059-6067.	2.3	47
118	White light emission from Eu ³⁺ co-activated Ca ₂ Gd ₈ Si ₆ O ₂₆ :Dy ³⁺ nanophosphors by solvothermal synthesis. Ceramics International, 2013, 39, 6319-6324.	2.3	46
119	Self-assembled hierarchical γ -cobalt hydroxide nanostructures on conductive textiles by one-step electrochemical deposition. CrystEngComm, 2014, 16, 11027-11034.	1.3	46
120	Hybrid Energy Cell with Hierarchical Nano/Micro-Architected Polymer Film to Harvest Mechanical, Solar, and Wind Energies Individually/Simultaneously. ACS Applied Materials & Interfaces, 2016, 8, 30165-30175.	4.0	46
121	Recent Advanced Development of Artificial Interphase Engineering for Stable Sodium Metal Anodes. Small, 2022, 18, e2102250.	5.2	46
122	Wafer-scale highly-transparent and superhydrophilic sapphires for high-performance optics. Optics Express, 2012, 20, 26160.	1.7	45
123	Formation of Ca ₂ Gd ₈ (SiO ₄) ₆ O ₂ Nanorod Bundles Based on Crystal Splitting by Mixed Solvothermal and Hydrothermal Reaction Methods. Crystal Growth and Design, 2012, 12, 960-969.	1.4	45
124	Efficiency improvement of III-V GaAs solar cells using biomimetic TiO ₂ subwavelength structures with wide-angle and broadband antireflection properties. Solar Energy Materials and Solar Cells, 2014, 127, 43-49.	3.0	45
125	Facile pechini synthesis of Sr ₃ Y ₂ Ge ₃ O ₁₂ :Bi ³⁺ /Eu ³⁺ phosphors with tunable emissions and energy transfer for WLEDs. Journal of Alloys and Compounds, 2017, 703, 361-369.	2.8	45
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