

Ho Seong Jang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

4,144
citations

35
h-index

63
g-index

96
ext. papers

4,596
ext. citations

6.3
avg, IF

5.57
L-index

#	Paper	IF	Citations
94	Enhancement of electrochromic response and cyclic durability of WO ₃ thin films by stacking Nb ₂ O ₅ layers. <i>Applied Surface Science</i> , 2022 , 582, 152431	6.7	2
93	Prediction of Ln ³⁺ energy levels in [NaYF ₄ :Ln ³⁺] and understanding of absorption behaviors. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125317	4.4	1
92	Enhancing the Up-conversion luminescence using All dielectric Three-Dimensional multiscale anodized aluminum oxide nanowire structure. <i>Applied Surface Science</i> , 2022 , 571, 151278	6.7	
91	Super-boosted Hybrid Plasmonic Upconversion Process for Photodetection at 1550nm Wavelength. <i>Advanced Materials</i> , 2021 , e2106225	24	0
90	Sputter-grown Eu-doped WO ₃ -Eu ₂ (WO ₄) ₃ composite red phosphor thin films. <i>Optical Materials</i> , 2021 , 122, 111721	3.3	0
89	Phosphine-Free-Synthesized ZnSe/ZnS Core/Shell Quantum Dots for White Light-Emitting Diodes. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10060	2.6	0
88	Orthogonal R/G/B Upconversion Luminescence-based Full-Color Tunable Upconversion Nanophosphors for Transparent Displays. <i>Nano Letters</i> , 2021 , 21, 4838-4844	11.5	23
87	Enhanced photodetector performance in gold nanoparticle decorated ZnO microrods. <i>Materials Characterization</i> , 2021 , 171, 110813	3.9	2
86	Magnetic property modulation of Ni thin films transferred onto flexible substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 511, 166968	2.8	1
85	A Multi-Functional Highly Efficient Upconversion Luminescent Film with an Array of Dielectric Microbeads Decorated with Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2020 , 30, 1909445	15.6	8
84	Luminescent silica films prepared using perhydropolysilazane and Mn-doped ZnS nanophosphors. <i>Applied Surface Science</i> , 2020 , 511, 145441	6.7	8
83	Facile synthesis of ZnO microrod photodetectors by solid-state reaction. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154110	5.7	6
82	Au-incorporated NiO nanocomposite thin films as electrochromic electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2020 , 330, 135203	6.7	29
81	800nm near-infrared light-excitable intense green-emitting Li(Gd,Y)F ₄ :Yb,Er-based core/shell/shell upconversion nanophosphors for efficient liver cancer cell imaging. <i>Materials and Design</i> , 2020 , 195, 108941	8.4	12
80	Sub-20 nm LiErF ₄ -Based Upconversion Nanophosphors for Simultaneous Imaging and Photothermal Therapeutics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8662-8671	5.6	7
79	Bright Blue, Green, and Red Luminescence from Dye-Sensitized Core@Shell Upconversion Nanophosphors under 800 nm Near-Infrared Light. <i>Materials</i> , 2020 , 13,	3.5	1
78	Simultaneous enhancement of luminescence and stability of CsPbBr ₃ perovskite nanocrystals via formation of perhydropolysilazane-derived nanopatterned film. <i>Chemical Engineering Journal</i> , 2020 , 393, 124767	14.7	8

77	Intense upconversion red emission from Gd-doped NaErF:Tm-based core/shell/shell nanocrystals under 980 and 800 nm near infrared light excitations. <i>Chemical Communications</i> , 2019 , 55, 2261-2264	5.8	19
76	Luminescent and magnetic properties of cerium-doped yttrium aluminum garnet and yttrium iron garnet composites. <i>Ceramics International</i> , 2019 , 45, 9846-9851	5.1	10
75	Full visible light emission in Eu ²⁺ ,Mn ²⁺ -doped Ca ₉ LiY _{0.667} (PO ₄) ₇ phosphors based on multiple crystal lattice substitution and energy transfer for warm white LEDs with high colour-rendering. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3644-3655	7.1	70
74	Facile synthesis of sub-10 nm-sized bright red-emitting upconversion nanophosphors via tetrahedral YOF:Yb,Er seed-mediated growth. <i>Chemical Communications</i> , 2019 , 55, 13350-13353	5.8	7
73	Highly Secure Plasmonic Encryption Keys Combined with Upconversion Luminescence Nanocrystals. <i>Advanced Functional Materials</i> , 2018 , 28, 1800369	15.6	24
72	Multi-color luminescence evolution of SrGdAlO ₄ :Ln ³⁺ (Ln ³⁺ = Eu ³⁺ and/or Tb ³⁺) nanocrystalline phosphors via a sol-gel process. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 781-790	5.7	21
71	Highly Efficient Blue Emission and Superior Thermal Stability of BaAl ₁₂ O ₁₉ :Eu ²⁺ Phosphors Based on Highly Symmetric Crystal Structure. <i>Chemistry of Materials</i> , 2018 , 30, 2389-2399	9.6	201
70	Strong upconversion downshifting green emission from Tb ³⁺ ions in core/shell/shell-structured nanophosphors. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4641-4650	2.8	1
69	Highly Luminescent Lead Halide Perovskite Quantum Dots in Hierarchical CaF ₂ Matrices with Enhanced Stability as Phosphors for White Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018 , 6, 1701343	8.1	75
68	Intense Red-Emitting Upconversion Nanophosphors (800 nm-Driven) with a Core/Double-Shell Structure for Dual-Modal Upconversion Luminescence and Magnetic Resonance in Vivo Imaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12331-12340	9.5	36
67	Facile synthesis of thermally stable CsPbBr ₃ perovskite quantum dot-inorganic SiO ₂ composites and their application to white light-emitting diodes with wide color gamut. <i>Dyes and Pigments</i> , 2018 , 149, 246-252	4.6	66
66	Multi-color luminescence evolution of La ₂ Zr ₃ (MoO ₄) ₉ :Ln ³⁺ (Ln ³⁺ = Dy ³⁺ and/or Eu ³⁺) nanocrystalline phosphors for UV-pumped white light-emitting devices. <i>Journal of Luminescence</i> , 2018 , 203, 179-188	3.8	5
65	Facile method for the synthesis of gold nanoparticles using an ion coater. <i>Applied Surface Science</i> , 2018 , 434, 1001-1006	6.7	15
64	Multicolor Tunable Upconversion Luminescence from Sensitized Seed-Mediated Grown LiGdF ₄ :Yb,Tm-Based Core/Triple-Shell Nanophosphors for Transparent Displays. <i>Chemistry of Materials</i> , 2018 , 30, 8457-8464	9.6	53
63	Facile synthesis of multicolor tunable ultrasmall LiYF ₄ :Yb,Tm,Er/LiGdF ₄ core/shell upconversion nanophosphors with sub-10 nm size. <i>Dyes and Pigments</i> , 2017 , 139, 831-838	4.6	22
62	Solution-Processed CuInS-Based White QD-LEDs with Mixed Active Layer Architecture. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11224-11230	9.5	29
61	Flexible transparent displays based on core/shell upconversion nanophosphor-incorporated polymer waveguides. <i>Scientific Reports</i> , 2017 , 7, 45659	4.9	20
60	Synthesis of highly efficient azure-to-blue-emitting Zn-Cu-Ga-S quantum dots. <i>Chemical Communications</i> , 2017 , 53, 4088-4091	5.8	24

59	Interfacial band-edge engineered TiO ₂ protection layer on Cu ₂ O photocathodes for efficient water reduction reaction. <i>Electronic Materials Letters</i> , 2017 , 13, 57-65	2.9	26
58	CuInS ₂ -Based Quantum Dot Light-Emitting Electrochemical Cells (QLECs). <i>Advanced Materials Technologies</i> , 2017 , 2, 1700154	6.8	25
57	Controlled Synthesis of CuInS/ZnS Nanocubes and Their Sensitive Photoluminescence Response toward Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32097-32105	9.5	13
56	Highly Bright and Photostable Li(Gd,Y)F ₄ :Yb,Er/LiGdF ₄ Core/Shell Upconversion Nanophosphors for Bioimaging Applications. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600183	3.1	15
55	Plasmonic Nanowire-Enhanced Upconversion Luminescence for Anticounterfeit Devices. <i>Advanced Functional Materials</i> , 2016 , 26, 7836-7846	15.6	56
54	A Plasmonic Platform with Disordered Array of Metal Nanoparticles for Three-Order Enhanced Upconversion Luminescence and Highly Sensitive Near-Infrared Photodetector. <i>Advanced Materials</i> , 2016 , 28, 7899-7909	24	46
53	Determination of Core/Double-Shell Architecture of a Single Tetragonal Bipyramidal Nanophosphor for Intense Dual-Mode Luminescence. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1428-1429 ^{0.5}		
52	Upconversion luminescence enhancement in plasmonic architecture with random assembly of metal nanodomes. <i>Nanoscale</i> , 2016 , 8, 2071-80	7.7	28
51	Direct observation of the core/double-shell architecture of intense dual-mode luminescent tetragonal bipyramidal nanophosphors. <i>Nanoscale</i> , 2016 , 8, 10049-58	7.7	22
50	Structural and luminescent properties of red-emitting SrGe ₄ O ₉ :Mn ⁴⁺ phosphors for white light-emitting diodes with high color rendering index. <i>Journal of Luminescence</i> , 2016 , 172, 99-104	3.8	21
49	Enhanced fluorescent stability of copper indium sulfide quantum dots through incorporating aluminum into ZnS shell. <i>Journal of Alloys and Compounds</i> , 2016 , 662, 173-178	5.7	14
48	Enhanced Optical Properties of Bredigite-Structure Ca _{13.7} Eu _{0.3} Mg ₂ [SiO ₄] ₈ Phosphor: Effective Eu Reduction by La Co-Doping. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 557-563	3.8	2
47	Fabrication of a white electroluminescent device based on bilayered yellow and blue quantum dots. <i>Nanoscale</i> , 2015 , 7, 5363-70	7.7	33
46	Up-conversion routines of Er ³⁺ /Yb ³⁺ doped Y ₆ O ₅ F ₈ and YOF phosphors. <i>Materials Research Bulletin</i> , 2015 , 71, 25-29	5.1	8
45	Quantum dot-layer-encapsulated and phenyl-functionalized silica spheres for highly luminous, colour rendering, and stable white light-emitting diodes. <i>Nanoscale</i> , 2015 , 7, 12860-7	7.7	24
44	Electrostatic Stabilized InP Colloidal Quantum Dots with High Photoluminescence Efficiency. <i>Langmuir</i> , 2015 , 31, 7117-21	4	10
43	Photostability enhancement of InP/ZnS quantum dots enabled by In ₂ O ₃ overcoating. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 6-13	5.7	18
42	Simultaneous enhancement of upconversion and downshifting luminescence via plasmonic structure. <i>Nano Letters</i> , 2015 , 15, 2491-7	11.5	53

41	Highly bright yellow-green-emitting CuInS ₂ colloidal quantum dots with core/shell/shell architecture for white light-emitting diodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6764-71	9.5	89
40	Core/shell-structured upconversion nanophosphor and cadmium-free quantum-dot bilayer-based near-infrared photodetectors. <i>Optics Letters</i> , 2015 , 40, 4959-62	3	13
39	A Strategy to enhance Eu ³⁺ emission from LiYF ₄ :Eu nanophosphors and green-to-orange multicolor tunable, transparent nanophosphor-polymer composites. <i>Scientific Reports</i> , 2015 , 5, 7866	4.9	37
38	A systematic in-vivo toxicity evaluation of nanophosphor particles via zebrafish models. <i>Biomaterials</i> , 2014 , 35, 440-9	15.6	55
37	Synthesis of Multifunctional Silica Composites Encapsulating a Mixture Layer of Quantum Dots and Magnetic Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014 , 24, 78-86 ³⁻²		3
36	Facile synthesis of intense green light emitting LiGdF ₄ :Yb,Er-based upconversion bipyramidal nanocrystals and their polymer composites. <i>Nanoscale</i> , 2014 , 6, 7461-8	7.7	45
35	Quantum-dot-based white lighting planar source through downconversion by blue electroluminescence. <i>Optics Letters</i> , 2014 , 39, 1208-11	3	6
34	Remote-type, high-color gamut white light-emitting diode based on InP quantum dot color converters. <i>Optical Materials Express</i> , 2014 , 4, 1297	2.6	49
33	Highly bright multicolor tunable ultrasmall [Na(Y,Gd)F ₄ :Ce,Tb,Eu]/[NaYF ₄] core/shell nanocrystals. <i>Nanoscale</i> , 2013 , 5, 9255-63	7.7	63
32	Unique oxide overcoating of CuInS ₂ /ZnS core/shell quantum dots with ZnGa ₂ O ₄ for fabrication of white light-emitting diode with improved operational stability. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	19
31	Utilization of LiSrPO ₄ :Eu phosphor and Cu ₂ In ₂ S quantum dot for fabrication of high color rendering white light-emitting diode. <i>Materials Letters</i> , 2013 , 92, 325-329	3.3	11
30	Rational morphology control of [NaYF ₄ :Yb,Er/Tm upconversion nanophosphors using a ligand, an additive, and lanthanide doping. <i>Nanoscale</i> , 2013 , 5, 4242-51	7.7	91
29	pH-responsive biodegradable assemblies containing tunable phenyl-substituted vinyl ethers for use as efficient gene delivery vehicles. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5648-58	9.5	26
28	Synthesis of blue emitting InP/ZnS quantum dots through control of competition between etching and growth. <i>Nanotechnology</i> , 2012 , 23, 485609	3.4	31
27	Yellow-emitting [Ca ₂ SiO ₄ :Ce ³⁺ , Li ⁺ phosphor for solid-state lighting: luminescent properties, electronic structure, and white light-emitting diode application. <i>Optics Express</i> , 2012 , 20, 2761-71	3.3	70
26	Bright dual-mode green emission from selective set of dopant ions in [Na(Y,Gd)F ₄ :Yb,Er]/[NaGdF ₄ :Ce,Tb core/shell nanocrystals. <i>Optics Express</i> , 2012 , 20, 17107	3.3	46
25	Biotemplated silica and titania nanowires: synthesis, characterization and potential applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 227-35	1.3	6
24	Widely tunable emissions of colloidal Zn(x)Cd(1-x)Se alloy quantum dots using a constant Zn/Cd precursor ratio. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 725-9	1.3	6

23	White-light emitting surface-functionalized ZnSe quantum dots: europium complex-capped hybrid nanocrystal. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12812		55
22	In Situ Synthesis of Thiol-Capped CuInS ₂ -ZnS Quantum Dots Embedded in Silica Powder by Sequential Ligand-Exchange and Silanization. <i>Electrochemical and Solid-State Letters</i> , 2011 , 15, K16-K18		38
21	Luminescence Tuning Mechanism of La _{0.827} Al _{1.190} 19.09:Eu ²⁺ ,Mn ²⁺ Phosphor for Multi-Color Light-Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, J276	3.9	18
20	Electrochemical synthesis of inorganic polycrystalline electrodes with controlled architectures. <i>MRS Bulletin</i> , 2010 , 35, 753-760	3.2	24
19	Biomagnetic glasses: preparation, characterization, and biosensor applications. <i>Langmuir</i> , 2010 , 26, 4320-46		46
18	Core/shell nanoparticles as hybrid platforms for the fabrication of a hydrogen peroxide biosensor. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5030		53
17	Multifunctional calcium carbonate microparticles: Synthesis and biological applications. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7728		44
16	Construction of cuprous oxide electrodes composed of 2D single-crystalline dendritic nanosheets. <i>Small</i> , 2010 , 6, 2183-90	11	16
15	Emission Band Change of (Sr _{1-x} M _x) ₃ SiO ₅ :Eu ²⁺ (M=Ca, Ba) Phosphor for White Light Sources Using Blue/Near-Ultraviolet LEDs. <i>Journal of the Electrochemical Society</i> , 2009 , 156, J138	3.9	63
14	Improvement of electroluminescent property of blue LED coated with highly luminescent yellow-emitting phosphors. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 95, 715-720	1.9	247
13	Bright three-band white light generated from CdSe/ZnSe quantum dot-assisted Sr ₃ SiO ₅ :Ce ³⁺ ,Li ⁺ -based white light-emitting diode with high color rendering index. <i>Applied Physics Letters</i> , 2009 , 95, 161901	3.4	43
12	Effect of phosphor geometry on the luminous efficiency of high-power white light-emitting diodes with excellent color rendering property. <i>Optics Letters</i> , 2009 , 34, 1-3	3	112
11	Luminescence properties and energy transfer of site-sensitive Ca _{6-x-y} Mg _{x-z} (PO ₄) ₄ :Eu ^y (²⁺),Mn ^z (²⁺) phosphors and their application to near-UV LED-based white LEDs. <i>Inorganic Chemistry</i> , 2009 , 48, 11525-32	5.1	176
10	White ACPEL Device with ZnS:Cu,Cl, Tb ₃ Al ₅ O ₁₂ :Ce ³⁺ , and CaS:Eu ²⁺ Phosphors Using a Layered Structure. <i>ETRI Journal</i> , 2009 , 31, 803-805	1.4	10
9	Origin of the discrepancy between photoluminescence brightness of TAG:Ce and electroluminescence brightness of TAG:Ce-based white LED expected from phosphor brightness. <i>Optics Letters</i> , 2008 , 33, 2140-2	3	18
8	Red-Emitting LiLa ₂ O ₂ BO ₃ :Sm ³⁺ ,Eu ³⁺ Phosphor for Near-Ultraviolet Light-Emitting Diodes-Based Solid-State Lighting. <i>Journal of the Electrochemical Society</i> , 2008 , 155, J226 ³⁻⁹	3.9	40
7	White Light-Emitting Diodes with Excellent Color Rendering Based on Organically Capped CdSe Quantum Dots and Sr ₃ SiO ₅ :Ce(³⁺),Li(⁺) Phosphors. <i>Advanced Materials</i> , 2008 , 20, 2696-702	24	366
6	Enhancement of red spectral emission intensity of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor via Pr co-doping and Tb substitution for the application to white LEDs. <i>Journal of Luminescence</i> , 2007 , 126, 371-377	3.8	448

5	Particle size control of a monodisperse spherical Y ₂ O ₃ :Eu ³⁺ phosphor and its photoluminescence properties. <i>Journal of Materials Research</i> , 2007 , 22, 2017-2024	2-5	48
4	Mechanism for strong yellow emission of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor under electron irradiation for the application to field emission backlight units. <i>Applied Physics Letters</i> , 2007 , 90, 071908	3-4	24
3	Yellow-emitting Sr ₃ SiO ₅ :Ce ³⁺ ,Li ⁺ phosphor for white-light-emitting diodes and yellow-light-emitting diodes. <i>Applied Physics Letters</i> , 2007 , 90, 041906	3-4	190
2	White light emission from blue and near ultraviolet light-emitting diodes precoated with a Sr ₃ SiO ₅ :Ce ³⁺ ,Li ⁺ phosphor. <i>Optics Letters</i> , 2007 , 32, 3444-6	3	64
1	Tunable full-color-emitting La _{0.827} Al _{11.9019} O _{19.09} :Eu ²⁺ ,Mn ²⁺ phosphor for application to warm white-light-emitting diodes. <i>Applied Physics Letters</i> , 2006 , 89, 231909	3-4	110