

Ho Seong Jang

List of Publications by Year in descending order

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94
papers

4,949
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87723

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96
docs citations

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#	ARTICLE	IF	CITATIONS
1	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.	1.5	499
2	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, 2696-2702.	11.1	391
3	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.	3.2	302
4	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.	1.1	279
5	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.	1.5	207
6	Luminescence Properties and Energy Transfer of Site-Sensitive Ca ₆ Mg ₄ (PO ₄) ₄ :Eu ²⁺ Phosphors and Their Application to Near-UV LED-Based White LEDs. <i>Inorganic Chemistry</i> , 2009, 48, 11525-11532.	1.9	187
7	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.	1.7	128
8	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.	1.5	117
9	Rational morphology control of $\text{NaYF}_4\text{:Yb,Er/Tm}$ upconversion nanophosphors using a ligand, an additive, and lanthanide doping. <i>Nanoscale</i> , 2013, 5, 4242.	2.8	109
10	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, 6764-6771.	4.0	108
11	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.	3.6	107
12	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.	2.7	92
13	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.	2.0	85
14	Yellow-emitting $\text{Ca}_2\text{SiO}_4\text{:Ce}^{3+}, \text{Li}^+$ phosphor for solid-state lighting: luminescent properties, electronic structure, and white light-emitting diode application. <i>Optics Express</i> , 2012, 20, 2761.	1.7	76
15	Orthogonal R/G/B Upconversion Luminescence-based Full-Color Tunable Upconversion Nanophosphors for Transparent Displays. <i>Nano Letters</i> , 2021, 21, 4838-4844.	4.5	73
16	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.	1.7	70
17	Plasmonic Nanowire-Enhanced Upconversion Luminescence for Anticounterfeit Devices. <i>Advanced Functional Materials</i> , 2016, 26, 7836-7846.	7.8	70
18	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.	1.3	67

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19	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.	3.2	66
20	Highly bright multicolor tunable ultrasmall $\text{Na(Y,Gd)F}_4\text{:Ce,Tb,Eu}$ / NaYF_4 core/shell nanocrystals. <i>Nanoscale</i> , 2013, 5, 9255.	2.8	64
21	Simultaneous Enhancement of Upconversion and Downshifting Luminescence via Plasmonic Structure. <i>Nano Letters</i> , 2015, 15, 2491-2497.	4.5	64
22	A systematic in-vivo toxicity evaluation of nanophosphor particles via zebrafish models. <i>Biomaterials</i> , 2014, 35, 440-449.	5.7	61
23	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.	11.1	61
24	White-light emitting surface-functionalized ZnSe quantum dots: europium complex-capped hybrid nanocrystal. <i>Journal of Materials Chemistry</i> , 2011, 21, 12812.	6.7	58
25	Remote-type, high-color gamut white light-emitting diode based on InP quantum dot color converters. <i>Optical Materials Express</i> , 2014, 4, 1297.	1.6	58
26	Core/shell nanoparticles as hybrid platforms for the fabrication of a hydrogen peroxide biosensor. <i>Journal of Materials Chemistry</i> , 2010, 20, 5030.	6.7	56
27	Facile synthesis of intense green light emitting LiGdF ₄ :Yb,Er-based upconversion bipyramidal nanocrystals and their polymer composites. <i>Nanoscale</i> , 2014, 6, 7461-7468.	2.8	53
28	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.	1.2	51
29	Bright dual-mode green emission from selective set of dopant ions in $\text{Na(Y,Gd)F}_4\text{:Yb,Er}$ / $\text{NaGdF}_4\text{:Ce,Tb}$ core/shell nanocrystals. <i>Optics Express</i> , 2012, 20, 17107.	1.7	51
30	Au-incorporated NiO nanocomposite thin films as electrochromic electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2020, 330, 135203.	2.6	51
31	Multifunctional calcium carbonate microparticles: Synthesis and biological applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 7728.	6.7	50
32	Biomagnetic Glasses: Preparation, Characterization, and Biosensor Applications. <i>Langmuir</i> , 2010, 26, 4320-4326.	1.6	46
33	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.	4.0	46
34	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, .	1.5	45
35	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.	1.3	41
36	Fabrication of a white electroluminescent device based on bilayered yellow and blue quantum dots. <i>Nanoscale</i> , 2015, 7, 5363-5370.	2.8	41

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37	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.	2.2	40
38	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.	1.6	40
39	Synthesis of blue emitting InP/ZnS quantum dots through control of competition between etching and growth. <i>Nanotechnology</i> , 2012, 23, 485609.	1.3	39
40	Solution-Processed CuInS ₂ -Based White QD-LEDs with Mixed Active Layer Architecture. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11224-11230.	4.0	37
41	Upconversion luminescence enhancement in plasmonic architecture with random assembly of metal nanodomains. <i>Nanoscale</i> , 2016, 8, 2071-2080.	2.8	36
42	Facile synthesis of multicolor tunable ultrasmall LiYF ₄ :Yb,Tm,Er/LiGdF ₄ core/shell upconversion nanophosphors with ~ 10 nm size. <i>Dyes and Pigments</i> , 2017, 139, 831-838.	2.0	35
43	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.	1.0	33
44	Synthesis of highly efficient azure-to-blue-emitting Zn ²⁺ -Cu ²⁺ -Ga ³⁺ -S quantum dots. <i>Chemical Communications</i> , 2017, 53, 4088-4091.	2.2	30
45	Direct observation of the core/double-shell architecture of intense dual-mode luminescent tetragonal bipyramidal nanophosphors. <i>Nanoscale</i> , 2016, 8, 10049-10058.	2.8	29
46	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, 5648-5658.	4.0	28
47	Highly Secure Plasmonic Encryption Keys Combined with Upconversion Luminescence Nanocrystals. <i>Advanced Functional Materials</i> , 2018, 28, 1800369.	7.8	28
48	Electrochemical synthesis of inorganic polycrystalline electrodes with controlled architectures. <i>MRS Bulletin</i> , 2010, 35, 753-760.	1.7	27
49	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.	2.8	27
50	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.	2.8	27
51	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, 12860-12867.	2.8	26
52	CuInS ₂ -Based Quantum Dot Light-Emitting Electrochemical Cells (QLECs). <i>Advanced Materials Technologies</i> , 2017, 2, 1700154.	3.0	26
53	Flexible transparent displays based on core/shell upconversion nanophosphor-incorporated polymer waveguides. <i>Scientific Reports</i> , 2017, 7, 45659.	1.6	25
54	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.	1.5	24

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55	Intense upconversion red emission from Gd-doped NaErF ₄ :Tm-based core/shell/shell nanocrystals under 980 and 800 nm near infrared light excitations. <i>Chemical Communications</i> , 2019, 55, 2261-2264.	2.2	24
56	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.	1.5	23
57	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.	7.8	21
58	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.	1.7	20
59	Construction of Cuprous Oxide Electrodes Composed of 2D Single-Crystalline Dendritic Nanosheets. <i>Small</i> , 2010, 6, 2183-2190.	5.2	19
60	Luminescence Tuning Mechanism of La _{0.827} Al _{11.90} O _{19.09} :Eu ²⁺ ,Mn ²⁺ Phosphor for Multi-Color Light-Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2011, 158, J276.	1.3	19
61	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.	0.8	19
62	Luminescent and magnetic properties of cerium-doped yttrium aluminum garnet and yttrium iron garnet composites. <i>Ceramics International</i> , 2019, 45, 9846-9851.	2.3	19
63	800Ånm 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.	3.3	19
64	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.	1.2	18
65	Facile method for the synthesis of gold nanoparticles using an ion coater. <i>Applied Surface Science</i> , 2018, 434, 1001-1006.	3.1	18
66	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.	2.8	17
67	Core/shell-structured upconversion nanophosphor and cadmium-free quantum-dot bilayer-based near-infrared photodetectors. <i>Optics Letters</i> , 2015, 40, 4959.	1.7	16
68	Sub-20 nm LiErF ₄ -Based Upconversion Nanophosphors for Simultaneous Imaging and Photothermal Therapeutics. <i>ACS Applied Nano Materials</i> , 2020, 3, 8662-8671.	2.4	16
69	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.	6.6	15
70	White ACEPL Device with ZnS:Cu,Cl, Tb³Al⁵O¹² and CaS:Eu² Phosphors Using a Layered Structure. <i>ETRI Journal</i> , 2009, 31, 803-805.	1.2	13
71	Utilization of LiSrPO ₄ :Eu phosphor and Cu—In—S quantum dot for fabrication of high color rendering white light-emitting diode. <i>Materials Letters</i> , 2013, 92, 325-329.	1.3	13
72	Controlled Synthesis of CuInS ₂ /ZnS Nanocubes and Their Sensitive Photoluminescence Response toward Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32097-32105.	4.0	13

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73	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.	3.1	12
74	Electrostatic Stabilized InP Colloidal Quantum Dots with High Photoluminescence Efficiency. <i>Langmuir</i> , 2015, 31, 7117-7121.	1.6	11
75	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.	2.2	11
76	Luminescent silica films prepared using perhydropolysilazane and Mn-doped ZnS nanophosphors. <i>Applied Surface Science</i> , 2020, 511, 145441.	3.1	11
77	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, 725-729.	0.9	9
78	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.	2.7	9
79	Biotemplated Silica and Titania Nanowires: Synthesis, Characterization and Potential Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 227-235.	0.9	8
80	Facile synthesis of ZnO microrod photodetectors by solid-state reaction. <i>Journal of Alloys and Compounds</i> , 2020, 825, 154110.	2.8	8
81	Enhanced photodetector performance in gold nanoparticle decorated ZnO microrods. <i>Materials Characterization</i> , 2021, 171, 110813.	1.9	8
82	Quantum-dot-based white lighting planar source through downconversion by blue electroluminescence. <i>Optics Letters</i> , 2014, 39, 1208.	1.7	6
83	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.	1.5	6
84	Bright Blue, Green, and Red Luminescence from Dye-Sensitized Core@Shell Upconversion Nanophosphors under 800 nm Near-Infrared Light. <i>Materials</i> , 2020, 13, 5338.	1.3	5
85	Magnetic property modulation of Ni thin films transferred onto flexible substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 511, 166968.	1.0	5
86	Superboosted Hybrid Plasmonic Upconversion Process for Photodetection at 1550 nm Wavelength. <i>Advanced Materials</i> , 2021, , 2106225.	11.1	5
87	Sputter-grown Eu-doped WO ₃ -Eu ₂ (WO ₄) ₃ composite red phosphor thin films. <i>Optical Materials</i> , 2021, 122, 111721.	1.7	4
88	Prediction of Ln ³⁺ energy levels in β -NaYF ₄ :Ln ³⁺ and understanding of absorption behaviors. <i>Materials Chemistry and Physics</i> , 2022, 275, 125317.	2.0	4
89	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.	1.9	3
90	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.	1.3	3

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91	Phosphine-Free-Synthesized ZnSe/ZnS Core/Shell Quantum Dots for White Light-Emitting Diodes. Applied Sciences (Switzerland), 2021, 11, 10060.	1.3	3
92	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
93	Enhancing the Up-conversion luminescence using All dielectric Three-Dimensional multiscale anodized aluminum oxide nanowire structure. Applied Surface Science, 2022, 571, 151278.	3.1	1
94	Determination of Core/Double-Shell Architecture of a Single Tetragonal Bipyramidal Nanophosphor for Intense Dual-Mode Luminescence. Microscopy and Microanalysis, 2016, 22, 1428-1429.	0.2	0