

Ho Seong Jang

List of Publications by Year in descending order

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94
papers

4,949
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87888

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docs citations

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5237
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the Up-conversion luminescence using All dielectric Three-Dimensional multiscale anodized aluminum oxide nanowire structure. <i>Applied Surface Science</i> , 2022, 571, 151278.	6.1	1
2	Prediction of Ln^{3+}  4f energy levels in $\text{I}^2\text{-NaYF}_4\text{:Ln}^{3+}$ and understanding of absorption behaviors. <i>Materials Chemistry and Physics</i> , 2022, 275, 125317.	4.0	4
3	Enhancement of electrochromic response and cyclic durability of WO_3 thin films by stacking Nb_2O_5 layers. <i>Applied Surface Science</i> , 2022, 582, 152431.	6.1	12
4	Enhanced photodetector performance in gold nanoparticle decorated ZnO microrods. <i>Materials Characterization</i> , 2021, 171, 110813.	4.4	8
5	Orthogonal R/G/B Upconversion Luminescence-based Full-Color Tunable Upconversion Nanophosphors for Transparent Displays. <i>Nano Letters</i> , 2021, 21, 4838-4844.	9.1	73
6	Sputter-grown Eu-doped $\text{WO}_3\text{-Eu}_2(\text{WO}_4)_3$ composite red phosphor thin films. <i>Optical Materials</i> , 2021, 122, 111721.	3.6	4
7	Phosphine-Free-Synthesized ZnSe/ZnS Core/Shell Quantum Dots for White Light-Emitting Diodes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10060.	2.5	3
8	Super-enhanced Hybrid Plasmonic Upconversion Process for Photodetection at 1550 nm Wavelength. <i>Advanced Materials</i> , 2021, , 2106225.	21.0	5
9	Au-incorporated NiO nanocomposite thin films as electrochromic electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2020, 330, 135203.	5.2	51
10	800 nm near-infrared light-excitabile intense green-emitting $\text{Li}(\text{Gd,Y})\text{F}_4\text{:Yb,Er}$ -based core/shell/shell upconversion nanophosphors for efficient liver cancer cell imaging. <i>Materials and Design</i> , 2020, 195, 108941.	7.0	19
11	Sub-20 nm LiErF_4 -Based Upconversion Nanophosphors for Simultaneous Imaging and Photothermal Therapeutics. <i>ACS Applied Nano Materials</i> , 2020, 3, 8662-8671.	5.0	16
12	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.	2.9	5
13	Magnetic property modulation of Ni thin films transferred onto flexible substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 511, 166968.	2.3	5
14	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.	14.9	21
15	Luminescent silica films prepared using perhydropolysilazane and Mn-doped ZnS nanophosphors. <i>Applied Surface Science</i> , 2020, 511, 145441.	6.1	11
16	Facile synthesis of ZnO microrod photodetectors by solid-state reaction. <i>Journal of Alloys and Compounds</i> , 2020, 825, 154110.	5.5	8
17	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.	12.7	15
18	Intense upconversion red emission from Gd-doped $\text{NaErF}_4\text{:Tm}$ -based core/shell/shell nanocrystals under 980 and 800 nm near infrared light excitations. <i>Chemical Communications</i> , 2019, 55, 2261-2264.	4.1	24

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19	Luminescent and magnetic properties of cerium-doped yttrium aluminum garnet and yttrium iron garnet composites. <i>Ceramics International</i> , 2019, 45, 9846-9851.	4.8	19
20	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.	5.5	92
21	Facile synthesis of sub-10 nm-sized bright red-emitting upconversion nanophosphors <i>via</i> tetrahedral YOF:Yb,Er seed-mediated growth. <i>Chemical Communications</i> , 2019, 55, 13350-13353.	4.1	11
22	Highly Secure Plasmonic Encryption Keys Combined with Upconversion Luminescence Nanocrystals. <i>Advanced Functional Materials</i> , 2018, 28, 1800369.	14.9	28
23	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.	5.5	27
24	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.	6.7	302
25	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.	2.7	3
26	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.	7.3	107
27	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.	8.0	46
28	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.	3.7	85
29	Facile method for the synthesis of gold nanoparticles using an ion coater. <i>Applied Surface Science</i> , 2018, 434, 1001-1006.	6.1	18
30	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.	6.7	66
31	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.	3.1	6
32	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.	3.7	35
33	Solution-Processed CuInS ₂ -Based White QD-LEDs with Mixed Active Layer Architecture. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11224-11230.	8.0	37
34	Flexible transparent displays based on core/shell upconversion nanophosphor-incorporated polymer waveguides. <i>Scientific Reports</i> , 2017, 7, 45659.	3.3	25
35	Synthesis of highly efficient azure-to-blue-emitting Zn " Cu " Ga " S quantum dots. <i>Chemical Communications</i> , 2017, 53, 4088-4091.	4.1	30
36	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.	2.2	33

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37	CuInS ₂ -Based Quantum Dot Light-Emitting Electrochemical Cells (QLECs). <i>Advanced Materials Technologies</i> , 2017, 2, 1700154.	5.8	26
38	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.	8.0	13
39	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.	2.3	18
40	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
41	Plasmonic Nanowire-Enhanced Upconversion Luminescence for Anticounterfeit Devices. <i>Advanced Functional Materials</i> , 2016, 26, 7836-7846.	14.9	70
42	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.	21.0	61
43	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.	0.4	0
44	Upconversion luminescence enhancement in plasmonic architecture with random assembly of metal nanodomains. <i>Nanoscale</i> , 2016, 8, 2071-2080.	5.6	36
45	Direct observation of the core/double-shell architecture of intense dual-mode luminescent tetragonal bipyramidal nanophosphors. <i>Nanoscale</i> , 2016, 8, 10049-10058.	5.6	29
46	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.	3.1	23
47	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.	5.5	17
48	Core/shell-structured upconversion nanophosphor and cadmium-free quantum-dot bilayer-based near-infrared photodetectors. <i>Optics Letters</i> , 2015, 40, 4959.	3.3	16
49	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.	3.3	40
50	Fabrication of a white electroluminescent device based on bilayered yellow and blue quantum dots. <i>Nanoscale</i> , 2015, 7, 5363-5370.	5.6	41
51	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.	5.2	9
52	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.	5.6	26
53	Electrostatic Stabilized InP Colloidal Quantum Dots with High Photoluminescence Efficiency. <i>Langmuir</i> , 2015, 31, 7117-7121.	3.5	11
54	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.	5.5	27

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55	Simultaneous Enhancement of Upconversion and Downshifting Luminescence via Plasmonic Structure. <i>Nano Letters</i> , 2015, 15, 2491-2497.	9.1	64
56	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.	8.0	108
57	Quantum-dot-based white lighting planar source through downconversion by blue electroluminescence. <i>Optics Letters</i> , 2014, 39, 1208.	3.3	6
58	Remote-type, high-color gamut white light-emitting diode based on InP quantum dot color converters. <i>Optical Materials Express</i> , 2014, 4, 1297.	3.0	58
59	A systematic in-vivo toxicity evaluation of nanophosphor particles via zebrafish models. <i>Biomaterials</i> , 2014, 35, 440-449.	11.4	61
60	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.	3.7	3
61	Facile synthesis of intense green light emitting $\text{LiGdF}_4:\text{Yb,Er}$ -based upconversion bipyramidal nanocrystals and their polymer composites. <i>Nanoscale</i> , 2014, 6, 7461-7468.	5.6	53
62	Highly bright multicolor tunable ultras-small $\text{Na(Y,Gd)F}_4:\text{Ce,Tb,Eu}$ / NaYF_4 core/shell nanocrystals. <i>Nanoscale</i> , 2013, 5, 9255.	5.6	64
63	Unique oxide overcoating of $\text{CuInS}_2/\text{ZnS}$ core/shell quantum dots with ZnGa_2O_4 for fabrication of white light-emitting diode with improved operational stability. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	19
64	Utilization of $\text{LiSrPO}_4:\text{Eu}$ 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.	2.6	13
65	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.	5.6	109
66	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.	8.0	28
67	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.	3.4	76
68	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.	3.4	51
69	Biotemplated Silica and Titania Nanowires: Synthesis, Characterization and Potential Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 227-235.	0.9	8
70	Synthesis of blue emitting InP/ZnS quantum dots through control of competition between etching and growth. <i>Nanotechnology</i> , 2012, 23, 485609.	2.6	39
71	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
72	In Situ Synthesis of Thiol-Capped $\text{CuInS}_2\text{-ZnS}$ 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

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73	Widely Tunable Emissions of Colloidal ZnxCd1-xSe Alloy Quantum Dots Using a Constant Zn/Cd Precursor Ratio. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 725-729.	0.9	9
74	Luminescence Tuning Mechanism of La _{0.827} Al _{11.9} O _{19.09} :Eu ²⁺ , Mn ²⁺ Phosphor for Multi-Color Light-Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2011, 158, J276.	2.9	19
75	Multifunctional calcium carbonate microparticles: Synthesis and biological applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 7728.	6.7	50
76	Construction of Cuprous Oxide Electrodes Composed of 2D Single-Crystalline Dendritic Nanosheets. <i>Small</i> , 2010, 6, 2183-2190.	10.0	19
77	Electrochemical synthesis of inorganic polycrystalline electrodes with controlled architectures. <i>MRS Bulletin</i> , 2010, 35, 753-760.	3.5	27
78	Biomagnetic Glasses: Preparation, Characterization, and Biosensor Applications. <i>Langmuir</i> , 2010, 26, 4320-4326.	3.5	46
79	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
80	White ACPEL Device with ZnS:Cu,Cl, Tb ₃ Al ₅ O ₁₂ and CaS:Eu ₂ Phosphors Using a Layered Structure. <i>ETRI Journal</i> , 2009, 31, 803-805.	2.0	13
81	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.	2.9	67
82	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.	2.2	279
83	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, .	3.3	45
84	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	128
85	Luminescence Properties and Energy Transfer of Site-Sensitive Ca ₆ Mg ₄ (PO ₄) ₄ :Eu ₄ Phosphors and Their Application to Near-UV LED-Based White LEDs. <i>Inorganic Chemistry</i> , 2009, 48, 11525-11532.	4.0	187
86	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.	21.0	391
87	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.	3.3	20
88	Red-Emitting LiLa ₂ O ₃ 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.	2.9	41
89	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.	2.6	51
90	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.	3.3	24

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91	Yellow-emitting Sr ₃ SiO ₅ :Ce ³⁺ ,Li ⁺ phosphor for white-light-emitting diodes and yellow-light-emitting diodes. Applied Physics Letters, 2007, 90, 041906.	3.3	207
92	White light emission from blue and near ultraviolet light-emitting diodes precoated with a Sr ₃ SiO ₅ :Ce ³⁺ ,Li ⁺ phosphor. Optics Letters, 2007, 32, 3444.	3.3	70
93	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. Journal of Luminescence, 2007, 126, 371-377.	3.1	499
94	Tunable full-color-emitting La _{0.827} Al _{11.90} O _{19.09} :Eu ²⁺ ,Mn ²⁺ phosphor for application to warm white-light-emitting diodes. Applied Physics Letters, 2006, 89, 231909.	3.3	117