Yong-Hoon Cho

List of Publications by Year
in descending order

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103	2,446	186265	223800
papers	citations	28 h-index	46 g-index

107	107	107	3843
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Efficient Lightâ€Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. Advanced Optical Materials, 2014, 2, 1016-1023.	7.3	229
2	Subwavelength light focusing using random nanoparticles. Nature Photonics, 2013, 7, 454-458.	31.4	160
3	Enhanced optical output power of green light-emitting diodes by surface plasmon of gold nanoparticles. Applied Physics Letters, 2011, 98, .	3.3	132
4	Enhanced solar hydrogen generation of high density, high aspect ratio, coaxial InGaN/GaN multi-quantum well nanowires. Nano Energy, 2015, 12, 215-223.	16.0	96
5	Squeezing Photons into a Point-Like Space. Nano Letters, 2015, 15, 4102-4107.	9.1	88
6	Monolithic Micro Light-Emitting Diode/Metal Oxide Nanowire Gas Sensor with Microwatt-Level Power Consumption. ACS Sensors, 2020, 5, 563-570.	7.8	87
7	Full-Field Subwavelength Imaging Using a Scattering Superlens. Physical Review Letters, 2014, 113, 113901.	7.8	81
8	Electrically driven, phosphor-free, white light-emitting diodes using gallium nitride-based double concentric truncated pyramid structures. Light: Science and Applications, 2016, 5, e16030-e16030.	16.6	73
9	Electrically Driven Quantum Dot/Wire/Well Hybrid Lightâ€Emitting Diodes. Advanced Materials, 2011, 23, 5364-5369.	21.0	70
10	Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots?. Small, 2015, 11, 3773-3781.	10.0	49
11	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. RSC Advances, 2016, 6, 97990-97994.	3.6	49
12	UV photovoltaic cells based on conjugated ZnO quantum dot/multiwalled carbon nanotube heterostructures. Applied Physics Letters, 2009, 94, .	3.3	47
13	Multi-color broadband visible light source via GaN hexagonal annular structure. Scientific Reports, 2014, 4, 5514.	3.3	46
14	Ultrafast single photon emitting quantum photonic structures based on a nano-obelisk. Scientific Reports, 2013, 3, 2150.	3.3	45
15	Simple analysis method for determining internal quantum efficiency and relative recombination ratios in light emitting diodes. Applied Physics Letters, 2013, 102, .	3.3	44
16	Superresolution imaging with optical fluctuation using speckle patterns illumination. Scientific Reports, 2015, 5, 16525.	3.3	40
17	Giant Rabi Splitting of Whispering Gallery Polaritons in GaN/InGaN Coreâ€“Shell Wire. Nano Letters, 2015, 15, 4517-4524.	9.1	40
18	Electroluminescence emission from light-emitting diode of p-ZnO/(InGaN/GaN) multiquantum well/n-GaN. Applied Physics Letters, 2011, 98, .	3.3	39

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19	Full and gradient structural colouration by lattice amplified gallium nitride Mie-resonators. Nanoscale, 2020, 12, 21392-21400.	5.6	37
20	Self-aligned deterministic coupling of single quantum emitter to nanofocused plasmonic modes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5280-5285.	7.1	36
21	Direct Transfer of Lightâ€™s Orbital Angular Momentum onto a Nonresonantly Excited Polariton Superfluid. Physical Review Letters, 2019, 122, 045302.	7.8	35
22	Spatial correlation between optical properties and defect formation in GaN thin films laterally overgrown on cone-shaped patterned sapphire substrates. Journal of Applied Physics, 2010, 107, .	2.5	34
23	Defect engineering route to boron nitride quantum dots and edge-hydroxylated functionalization for bio-imaging. RSC Advances, 2016, 6, 73939-73946.	3.6	34
24	Effective suppression of efficiency droop in GaN-based light-emitting diodes: role of significant reduction of carrier density and built-in field. Scientific Reports, 2016, 6, 34586.	3.3	34
25	Modulation of Growth Kinetics of Vacuum-Deposited CsPbBr₃ Films for Efficient Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2020, 12, 1944-1952.	8.0	33
26	How Effective is Plasmonic Enhancement of Colloidal Quantum Dots for Colorâ€Conversion Lightâ€Emitting Devices?. Small, 2017, 13, 1701805.	10.0	30
27	Carrier dynamics of high-efficiency green light emission in graded-indium-content InGaN/GaN quantum wells: An important role of effective carrier transfer. Applied Physics Letters, 2004, 84, 49-51.	3.3	29
28	Optical transition dynamics in ZnO/ZnMgO multiple quantum well structures with different well widths grown on ZnO substrates. Journal of Applied Physics, 2010, 107, 033513.	2.5	29
29	Strongly Coherent Single-Photon Emission from Site-Controlled InGaN Quantum Dots Embedded in GaN Nanopyramids. ACS Photonics, 2018, 5, 439-444.	6.6	29
30	Size-dependent radiative decay processes in graphene quantum dots. Applied Physics Letters, 2012, 101, .	3.3	27
31	Towards highly efficient photoanodes: the role of carrier dynamics on the photoelectrochemical performance of InGaN/GaN multiple quantum well coaxial nanowires. RSC Advances, 2015, 5, 23303-23310.	3.6	26
32	1D photonic crystal direct bandgap GeSn-on-insulator laser. Applied Physics Letters, 2021, 119, .	3.3	26
33	Growth Mechanism of Catalyst-Free and Mask-Free Heteroepitaxial GaN Submicrometer- and Micrometer-Sized Rods under Biaxial Strain: Variation of Surface Energy and Adatom Kinetics. Crystal Growth and Design, 2012, 12, 3838-3844.	3.0	25
34	Energy coupling processes in InGaN/GaN nanopillar light emitting diodes embedded with Ag and Ag/SiO2 nanoparticles. Journal of Materials Chemistry, 2012, 22, 21749.	6.7	24
35	AlGaN Deep-Ultraviolet Light-Emitting Diodes with Localized Surface Plasmon Resonance by a High-Density Array of 40 nm Al Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 36339-36346.	8.0	23
36	Universal and scalable route to fabricate GaN nanowire-based LED on amorphous substrate by MOCVD. Applied Materials Today, 2020, 19, 100541.	4.3	22

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37	Silk and Paper: Progress and Prospects in Green Photonics and Electronics. Advanced Sustainable Systems, 2022, 6, 2000216.	5.3	22
38	Ultrafast carrier dynamics of conformally grown semi-polar (112Ì„2) GaN/InGaN multiple quantum well co-axial nanowires on m-axial GaN core nanowires. Nanoscale, 2019, 11, 10932-10943.	5.6	20
39	Three-dimensional GaN dodecagonal ring structures for highly efficient phosphor-free warm white light-emitting diodes. Nanoscale, 2018, 10, 4686-4695.	5.6	19
40	Highly Efficient Vacuum-Evaporated CsPbBr₃ Perovskite Light-Emitting Diodes with an Electrical Conductivity Enhanced Polymer-Assisted Passivation Layer. ACS Applied Materials & Interfaces, 2021, 13, 37323-37330.	8.0	19
41	Strain and piezoelectric potential effects on optical properties in CdSe/CdS core/shell quantum dots. Journal of Applied Physics, 2011, 109, .	2.5	18
42	Shell layer dependence of photoblinking in CdSe/ZnSe/ZnS quantum dots. Applied Physics Letters, 2011, 98, 012109.	3.3	17
43	Vertically aligned InGaN nanowires with engineered axial In composition for highly efficient visible light emission. Scientific Reports, 2015, 5, 17003.	3.3	16
44	Investigating carrier localization and transfer in InGaN/GaN quantum wells with V-pits using near-field scanning optical microscopy and correlation analysis. Scientific Reports, 2017, 7, 42221.	3.3	15
45	Nanosinusoidal Surface Zinc Oxide for Optical Out-coupling of Inverted Organic Light-Emitting Diodes. ACS Photonics, 2018, 5, 4061-4067.	6.6	15
46	A discrete core-shell-like micro-light-emitting diode array grown on sapphire nano-membranes. Scientific Reports, 2020, 10, 7506.	3.3	15
47	A Flashâ€Induced Robust Cu Electrode on Glass Substrates and Its Application for Thinâ€Film Î¼LEDs. Advanced Materials, 2021, 33, e2007186.	21.0	15
48	Morphology Tailoring and Growth Mechanism of Indium-Rich InGaN/GaN Axial Nanowire Heterostructures by Plasma-Assisted Molecular Beam Epitaxy. Crystal Growth and Design, 2018, 18, 2545-2554.	3.0	14
49	Determining the Chemical Origin of the Photoluminescence of Cesiumâ€“Bismuthâ€“Bromide Perovskite Nanocrystals and Improving the Luminescence via Metal Chloride Additives. ACS Applied Energy Materials, 2020, 3, 4650-4657.	5.1	14
50	Semiconductor Photonic Nanocavity on a Paper Substrate. Advanced Materials, 2016, 28, 9765-9769.	21.0	13
51	Unidirectional Emission of a Site-Controlled Single Quantum Dot from a Pyramidal Structure. Nano Letters, 2016, 16, 6117-6123.	9.1	12
52	Orthogonally Polarized, Dual-Wavelength Quantum Wire Network Emitters Embedded in Single Microrod. Nano Letters, 2019, 19, 8454-8460.	9.1	12
53	Three-dimensional hierarchical semi-polar GaN/InGaN MQW coaxial nanowires on a patterned Si nanowire template. Nanoscale Advances, 2020, 2, 1654-1665.	4.6	12
54	Strong luminescence of two-dimensional electron gas in tensile-stressed AlGaN/GaN heterostructures grown on Si substrates. Applied Physics Letters, 2011, 98, 141917.	3.3	11

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55	Nonlinear Photonic Diode Behavior in Energy-Graded Coreâ€“Shell Quantum Well Semiconductor Rod. Nano Letters, 2014, 14, 4937-4942.	9.1	11
56	Carrier transfer and recombination dynamics of a long-lived and visible range emission from multi-stacked GaN/AlGaN quantum dots. Applied Physics Letters, 2010, 97, 061905.	3.3	10
57	Graphene Quantum Dots: Facile Synthetic Method for Pristine Graphene Quantum Dots and Graphene Oxide Quantum Dots: Origin of Blue and Green Luminescence (Adv. Mater. 27/2013). Advanced Materials, 2013, 25, 3748-3748.	21.0	10
58	Metallic phase transition metal dichalcogenide quantum dots showing different optical charge excitation and decay pathways. NPG Asia Materials, 2021, 13, .	7.9	10
59	Mie resonance-mediated antireflection effects of Si nanocone arrays fabricated on 8-in. wafers using a nanoimprint technique. Nanoscale Research Letters, 2015, 10, 164.	5.7	9
60	Site-Selective, Two-Photon Plasmonic Nanofocusing on a Single Quantum Dot for Near-Room-Temperature Operation. ACS Photonics, 2018, 5, 711-717.	6.6	9
61	Room-temperature polaritonic non-Hermitian system with single microcavity. Nature Photonics, 2021, 15, 582-587.	31.4	9
62	Surface plasmon modulation induced by a direct-current electric field into gallium nitride thin film grown on Si(111) substrate. Applied Physics Letters, 2013, 102, 021905.	3.3	8
63	Tailoring the potential landscape of room-temperature single-mode whispering gallery polariton condensate. Optica, 2019, 6, 1313.	9.3	8
64	Optical excitation study on the efficiency droop behaviors of InGaN/GaN multiple-quantum-well structures. Applied Physics B: Lasers and Optics, 2014, 114, 551-555.	2.2	7
65	Extraordinary Strong Fluorescence Evolution in Phosphor on Graphene. Advanced Materials, 2016, 28, 1657-1662.	21.0	7
66	Time-reversing a monochromatic subwavelength optical focus by optical phase conjugation of multiply-scattered light. Scientific Reports, 2017, 7, 41384.	3.3	7
67	Nanoscale Focus Pinspot for High-Purity Quantum Emitters via Focused-Ion-Beam-Induced Luminescence Quenching. ACS Nano, 2021, 15, 11317-11325.	14.6	7
68	Wide-Field Super-Resolution Optical Fluctuation Imaging through Dynamic Near-Field Speckle Illumination. Nano Letters, 2022, 22, 2194-2201.	9.1	7
69	Strong and robust polarization anisotropy of site- and size-controlled single InGaN/GaN quantum wires. Scientific Reports, 2020, 10, 15371.	3.3	6
70	Universal Patterning for 2D Van der Waals Materials via Direct Optical Lithography. Advanced Functional Materials, 2021, 31, 2105302.	14.9	6
71	Violet-light spontaneous and stimulated emission from ultrathin In-rich InGaN/GaN multiple quantum wells grown by metalorganic chemical vapor deposition. Applied Physics Letters, 2008, 93, 161905.	3.3	5
72	Optical and Facet-Dependent Carrier Recombination Properties of Hendecafacet InGaN/GaN Microsized Light Emitters. Crystal Growth and Design, 2017, 17, 3649-3655.	3.0	5

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73	Extracting internal modes of top emission organic light emitting diodes by using internal random mesoscopic wrinkles. Journal of Industrial and Engineering Chemistry, 2021, 96, 163-168.	5.8	5
74	Friction Control by Deformation Mode in Nanopatterned Amorphous Carbon. Nano Letters, 2021, 21, 107-113.	9.1	5
75	Hexagonal GaN nanorod-based photonic crystal slab as simultaneous yellow broadband reflector and blue emitter for phosphor-conversion white light emitting devices. Scientific Reports, 2020, 10, 358.	3.3	5
76	Observation of a single quantized vortex vanishment in exciton-polariton superfluids. Physical Review B, 2022, 105, .	3.2	5
77	Optical properties and carrier dynamics of polarity controlled ZnO films grown on (0001) Al2O3 by Cr-compound intermediate layers. Applied Physics Letters, 2009, 94, .	3.3	4
78	Strong carrier localization and diminished quantum-confined Stark effect in ultra-thin high-indium-content InGaN quantum wells with violet light emission. Applied Physics Letters, 2013, 103, .	3.3	4
79	Electrically driven, highly efficient three-dimensional GaN-based light emitting diodes fabricated by self-aligned twofold epitaxial lateral overgrowth. Scientific Reports, 2017, 7, 9663.	3.3	4
80	Axial Inhomogeneity of Mg-Doped GaN Rods: A Strong Correlation among Componential, Electrical, and Optical Analyses. ACS Photonics, 2018, 5, 2825-2833.	6.6	4
81	Interplay of strain and intermixing effects on direct-bandgap optical transition in strained Ge-on-Si under thermal annealing. Scientific Reports, 2019, 9, 11709.	3.3	4
82	Control of the 3-Fold Symmetric Shape of Group III-Nitride Quantum Dots: Suppression of Fine-Structure Splitting. Nano Letters, 2020, 20, 8461-8468.	9.1	4
83	Influence of wafer quality on chip size-dependent efficiency variation in blue and green micro light-emitting diodes. Scientific Reports, 2022, 12, 7955.	3.3	4
84	Injection of carriers from a ZnO nanostructured shell to a ZnS based microsphere core. Applied Physics Letters, 2009, 95, 022108.	3.3	3
85	A broadband ultraviolet light source using GaN quantum dots formed on hexagonal truncated pyramid structures. Nanoscale Advances, 2020, 2, 1449-1455.	4.6	3
86	Photonic rocket structure grown by site-selective and bottom-up approach: A directional and Gaussian-like quantum emitter platform. Applied Physics Letters, 2021, 119, .	3.3	3
87	Active-matrix micro-light-emitting diode displays driven by monolithically integrated dual-gate oxide thin-film transistors. Journal of Materials Chemistry C, 2022, 10, 9699-9706.	5.5	3
88	Optical properties of ZnO powder prepared by using a proteic sol-gel process. Journal of the Korean Physical Society, 2013, 62, 739-742.	0.7	2
89	Real-time monitoring and visualization of the multi-dimensional motion of an anisotropic nanoparticle. Scientific Reports, 2017, 7, 44167.	3.3	2
90	Formation of a-plane facets in three-dimensional hexagonal GaN structures for photonic devices. Scientific Reports, 2017, 7, 9356.	3.3	2

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91	Effective Photoluminescence Imaging of Bubbles in hBN-Encapsulated WSe2 Monolayer. Nanomaterials, 2020, 10, 350.	4.1	2
92	Spatially isolated neutral excitons via clusters on trilayer MoS₂. Nanoscale, 2022, 14, 4304-4311.	5.6	2
93	Carrier transfer and redistribution dynamics in vertically aligned stacked In0.5Ga0.5As quantum dots with different GaAs spacer thicknesses. Journal of Applied Physics, 2009, 106, 123524.	2.5	1
94	Effects of growth temperature on the optical properties of InN nanostructures grown by MOCVD. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2029-2032.	0.8	1
95	Graphene Quantum Dots: Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots? (Small 31/2015). Small, 2015, 11, 3772-3772.	10.0	1
96	Raman analysis of in-plane biaxial strain for Ge-on-Si lasers. , 2015, , .		0
97	Controlling optical properties of Ge-on-Si by thermal annealing and etching process. , 2015, , .		0
98	Green luminescence of quasi-molecular level in graphene quantum dots fabricated by microwave bottom-up strategy. , 2015, , .		0
99	Strong correlation between efficiency and carrier recombination processes in efficiency droop of GaN based light-emitting diodes. , 2015, , .		0
100	Quantitative analysis of carrier escape efficiency in GaN-based light-emitting diodes. , 2015, , .		0
101	Optical properties of Al0.5Ga0.5N/GaN polar quantum dots and UV LEDs made of them. , 2015, , .		0
102	GROUP III-NITRIDE NANOSTRUCTURES FOR LIGHT-EMITTING DEVICES AND BEYOND. , 2017, , 369-399.		0
103	Strain Property of Germanium Photonic Crystal Cavity on Silicon. , 2019, , .		0