Yong-Hoon Cho

List of Publications by Citations

90 papers	1,859 citations	24 h-index	40 g-index
107 ext. papers	2,179 ext. citations	7.8 avg, IF	4.79 L-index

#	Paper	IF	Citations
90	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. *Advanced Optical Materials*, **2014**, 2, 1016-1023	8.1	199
89	Subwavelength light focusing using random nanoparticles. *Nature Photonics*, **2013**, 7, 454-458	33.9	125
88	Enhanced optical output power of green light-emitting diodes by surface plasmon of gold nanoparticles. *Applied Physics Letters*, **2011**, 98, 051106	3.4	124
87	Enhanced solar hydrogen generation of high density, high aspect ratio, coaxial InGaN/GaN multi-quantum well nanowires. *Nano Energy*, **2015**, 12, 215-223	17.1	89
86	Squeezing Photons into a Point-Like Space. *Nano Letters*, **2015**, 15, 4102-7	11.5	72
85	Electrically driven quantum dot/wire/well hybrid light-emitting diodes. *Advanced Materials*, **2011**, 23, 5364-9	24	63
84	Electrically driven, phosphor-free, white light-emitting diodes using gallium nitride-based double concentric truncated pyramid structures. *Light: Science and Applications*, **2016**, 5, e16030	16.7	60
83	Full-field subwavelength imaging using a scattering superlens. *Physical Review Letters*, **2014**, 113, 113901	7.4	58
82	Monolithic Micro Light-Emitting Diode/Metal Oxide Nanowire Gas Sensor with Microwatt-Level Power Consumption. *ACS Sensors*, **2020**, 5, 563-570	9.2	46
81	Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots?. *Small*, **2015**, 11, 3773-81	11	44
80	UV photovoltaic cells based on conjugated ZnO quantum dot/multiwalled carbon nanotube heterostructures. *Applied Physics Letters*, **2009**, 94, 111906	3.4	42
79	Ultrafast single photon emitting quantum photonic structures based on a nano-obelisk. *Scientific Reports*, **2013**, 3, 2150	4.9	40
78	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. *RSC Advances*, **2016**, 6, 97990-97994	3.7	39
77	Multi-color broadband visible light source via GaN hexagonal annular structure. *Scientific Reports*, **2014**, 4, 5514	4.9	36
76	Electroluminescence emission from light-emitting diode of p-ZnO/(InGaN/GaN) multiquantum well/n-GaN. *Applied Physics Letters*, **2011**, 98, 251111	3.4	33
75	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, 5280-5	11.5	32
74	Simple analysis method for determining internal quantum efficiency and relative recombination ratios in light emitting diodes. *Applied Physics Letters*, **2013**, 102, 211107	3.4	32

73	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, 103506	2.5	32
72	Giant Rabi Splitting of Whispering Gallery Polaritons in GaN/InGaN Core-Shell Wire. *Nano Letters*, **2015**, 15, 4517-24	11.5	29
71	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	4.9	27
70	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	26
69	Defect engineering route to boron nitride quantum dots and edge-hydroxylated functionalization for bio-imaging. *RSC Advances*, **2016**, 6, 73939-73946	3.7	25
68	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	3.7	24
67	How Effective is Plasmonic Enhancement of Colloidal Quantum Dots for Color-Conversion Light-Emitting Devices?. *Small*, **2017**, 13, 1701805	11	24
66	Superresolution imaging with optical fluctuation using speckle patterns illumination. *Scientific Reports*, **2015**, 5, 16525	4.9	24
65	Size-dependent radiative decay processes in graphene quantum dots. *Applied Physics Letters*, **2012**, 101, 163103	3.4	24
64	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	3.4	24
63	Full and gradient structural colouration by lattice amplified gallium nitride Mie-resonators. *Nanoscale*, **2020**, 12, 21392-21400	7.7	23
62	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	3.5	22
61	Strongly Coherent Single-Photon Emission from Site-Controlled InGaN Quantum Dots Embedded in GaN Nanopyramids. *ACS Photonics*, **2018**, 5, 439-444	6.3	21
60	Modulation of Growth Kinetics of Vacuum-Deposited CsPbBr Films for Efficient Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 1944-1952	9.5	20
59	Direct Transfer of Light's Orbital Angular Momentum onto a Nonresonantly Excited Polariton Superfluid. *Physical Review Letters*, **2019**, 122, 045302	7.4	19
58	Energy coupling processes in InGaN/GaN nanopillar light emitting diodes embedded with Ag and Ag/SiO2 nanoparticles. *Journal of Materials Chemistry*, **2012**, 22, 21749		18
57	Three-dimensional GaN dodecagonal ring structures for highly efficient phosphor-free warm white light-emitting diodes. *Nanoscale*, **2018**, 10, 4686-4695	7.7	17
56	Strain and piezoelectric potential effects on optical properties in CdSe/CdS core/shell quantum dots. *Journal of Applied Physics*, **2011**, 109, 113103	2.5	16

55	Vertically aligned InGaN nanowires with engineered axial In composition for highly efficient visible light emission. *Scientific Reports*, **2015**, 5, 17003	4.9	14
54	Shell layer dependence of photoblinking in CdSe/ZnSe/ZnS quantum dots. *Applied Physics Letters*, **2011**, 98, 012109	3.4	14
53	Universal and scalable route to fabricate GaN nanowire-based LED on amorphous substrate by MOCVD. *Applied Materials Today*, **2020**, 19, 100541	6.6	14
52	Nanosinusoidal Surface Zinc Oxide for Optical Out-coupling of Inverted Organic Light-Emitting Diodes. *ACS Photonics*, **2018**, 5, 4061-4067	6.3	14
51	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	4.9	13
50	Ultrafast carrier dynamics of conformally grown semi-polar (112[combining macron]2) GaN/InGaN multiple quantum well co-axial nanowires on m-axial GaN core nanowires. *Nanoscale*, **2019**, 11, 10932-10943	7.7	11
49	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	3.5	11
48	Unidirectional Emission of a Site-Controlled Single Quantum Dot from a Pyramidal Structure. *Nano Letters*, **2016**, 16, 6117-6123	11.5	10
47	Strong luminescence of two-dimensional electron gas in tensile-stressed AlGaN/GaN heterostructures grown on Si substrates. *Applied Physics Letters*, **2011**, 98, 141917	3.4	10
46	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	3.4	10
45	Semiconductor Photonic Nanocavity on a Paper Substrate. *Advanced Materials*, **2016**, 28, 9765-9769	24	10
44	Nonlinear photonic diode behavior in energy-graded core-shell quantum well semiconductor rod. *Nano Letters*, **2014**, 14, 4937-42	11.5	9
43	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	9.5	9
42	Silk and Paper: Progress and Prospects in Green Photonics and Electronics. *Advanced Sustainable Systems*,2000216	5.9	9
41	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	8
40	Highly Efficient Vacuum-Evaporated CsPbBr Perovskite Light-Emitting Diodes with an Electrical Conductivity Enhanced Polymer-Assisted Passivation Layer. *ACS Applied Materials & Interfaces*, **2021**, 13, 37323-37330	9.5	8
39	Determining the Chemical Origin of the Photoluminescence of Cesium Bismuth Bromide Perovskite Nanocrystals and Improving the Luminescence via Metal Chloride Additives. *ACS Applied Energy Materials*, **2020**, 3, 4650-4657	6.1	7
38	Site-Selective, Two-Photon Plasmonic Nanofocusing on a Single Quantum Dot for Near-Room-Temperature Operation. *ACS Photonics*, **2018**, 5, 711-717	6.3	7

37	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	1.9	7
36	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	3.4	7
35	1D photonic crystal direct bandgap GeSn-on-insulator laser. *Applied Physics Letters*, **2021**, 119, 201101	3.4	7
34	Extraordinary Strong Fluorescence Evolution in Phosphor on Graphene. *Advanced Materials*, **2016**, 28, 1657-62	24	7
33	Time-reversing a monochromatic subwavelength optical focus by optical phase conjugation of multiply-scattered light. *Scientific Reports*, **2017**, 7, 41384	4.9	6
32	Three-dimensional hierarchical semi-polar GaN/InGaN MQW coaxial nanowires on a patterned Si nanowire template. *Nanoscale Advances*, **2020**, 2, 1654-1665	5.1	6
31	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	24	6
30	A Flash-Induced Robust Cu Electrode on Glass Substrates and Its Application for Thin-Film □EDs. *Advanced Materials*, **2021**, 33, e2007186	24	6
29	A discrete core-shell-like micro-light-emitting diode array grown on sapphire nano-membranes. *Scientific Reports*, **2020**, 10, 7506	4.9	5
28	Orthogonally Polarized, Dual-Wavelength Quantum Wire Network Emitters Embedded in Single Microrod. *Nano Letters*, **2019**, 19, 8454-8460	11.5	5
27	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	3.4	5
26	Tailoring the potential landscape of room-temperature single-mode whispering gallery polariton condensate. *Optica*, **2019**, 6, 1313	8.6	5
25	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, 222104	3.4	4
24	Optical properties and carrier dynamics of polarity controlled ZnO films grown on (0001) Al2O3 by Cr-compound intermediate layers. *Applied Physics Letters*, **2009**, 94, 061918	3.4	4
23	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	4.9	4
22	Universal Patterning for 2D Van der Waals Materials via Direct Optical Lithography. *Advanced Functional Materials*,2105302	15.6	4
21	Optical and Facet-Dependent Carrier Recombination Properties of Hendecafacet InGaN/GaN Microsized Light Emitters. *Crystal Growth and Design*, **2017**, 17, 3649-3655	3.5	3
20	Axial Inhomogeneity of Mg-Doped GaN Rods: A Strong Correlation among Componential, Electrical, and Optical Analyses. *ACS Photonics*, **2018**, 5, 2825-2833	6.3	3

19	Electrically driven, highly efficient three-dimensional GaN-based light emitting diodes fabricated by self-aligned twofold epitaxial lateral overgrowth. *Scientific Reports*, **2017**, 7, 9663	4.9	3
18	Injection of carriers from a ZnO nanostructured shell to a ZnS based microsphere core. *Applied Physics Letters*, **2009**, 95, 022108	3.4	3
17	A broadband ultraviolet light source using GaN quantum dots formed on hexagonal truncated pyramid structures. *Nanoscale Advances*, **2020**, 2, 1449-1455	5.1	2
16	Optical properties of ZnO powder prepared by using a proteic sol-gel process. *Journal of the Korean Physical Society*, **2013**, 62, 739-742	0.6	2
15	Control of the 3-Fold Symmetric Shape of Group III-Nitride Quantum Dots: Suppression of Fine-Structure Splitting. *Nano Letters*, **2020**, 20, 8461-8468	11.5	2
14	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	6.3	2
13	Interplay of strain and intermixing effects on direct-bandgap optical transition in strained Ge-on-Si under thermal annealing. *Scientific Reports*, **2019**, 9, 11709	4.9	1
12	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	11	1
11	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
10	Friction Control by Deformation Mode in Nanopatterned Amorphous Carbon. *Nano Letters*, **2021**, 21, 107-113	11.5	1
9	Metallic phase transition metal dichalcogenide quantum dots showing different optical charge excitation and decay pathways. *NPG Asia Materials*, **2021**, 13,	10.3	1
8	Influence of wafer quality on chip size-dependent efficiency variation in blue and green micro light-emitting diodes.. *Scientific Reports*, **2022**, 12, 7955	4.9	1
7	Real-time monitoring and visualization of the multi-dimensional motion of an anisotropic nanoparticle. *Scientific Reports*, **2017**, 7, 44167	4.9	0
6	Formation of a-plane facets in three-dimensional hexagonal GaN structures for photonic devices. *Scientific Reports*, **2017**, 7, 9356	4.9	0
5	Strong and robust polarization anisotropy of site- and size-controlled single InGaN/GaN quantum wires. *Scientific Reports*, **2020**, 10, 15371	4.9	0
4	Room-temperature polaritonic non-Hermitian system with single microcavity. *Nature Photonics*, **2021**, 15, 582-587	33.9	0
3	Photonic rocket structure grown by site-selective and bottom-up approach: A directional and Gaussian-like quantum emitter platform. *Applied Physics Letters*, **2021**, 119, 034001	3.4	0
2	GROUP III-NITRIDE NANOSTRUCTURES FOR LIGHT-EMITTING DEVICES AND BEYOND **2017**, 369-399		

List of Publications

1 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