

# Yong-Hoon Cho

## 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.

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	Influence of wafer quality on chip size-dependent efficiency variation in blue and green micro light-emitting diodes.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7955	4.9	1
89	1D photonic crystal direct bandgap GeSn-on-insulator laser. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 201101	3.4	7
88	Friction Control by Deformation Mode in Nanopatterned Amorphous Carbon. <i>Nano Letters</i> , <b>2021</b> , 21, 107-113	11.5	1
87	Extracting internal modes of top emission organic light emitting diodes by using internal random mesoscopic wrinkles. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 96, 163-168	6.3	2
86	Metallic phase transition metal dichalcogenide quantum dots showing different optical charge excitation and decay pathways. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	1
85	Room-temperature polaritonic non-Hermitian system with single microcavity. <i>Nature Photonics</i> , <b>2021</b> , 15, 582-587	33.9	0
84	Highly Efficient Vacuum-Evaporated CsPbBr Perovskite Light-Emitting Diodes with an Electrical Conductivity Enhanced Polymer-Assisted Passivation Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 37323-37330	9.5	8
83	Photonic rocket structure grown by site-selective and bottom-up approach: A directional and Gaussian-like quantum emitter platform. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 034001	3.4	0
82	A Flash-Induced Robust Cu Electrode on Glass Substrates and Its Application for Thin-Film LEDs. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007186	24	6
81	A broadband ultraviolet light source using GaN quantum dots formed on hexagonal truncated pyramid structures. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1449-1455	5.1	2
80	A discrete core-shell-like micro-light-emitting diode array grown on sapphire nano-membranes. <i>Scientific Reports</i> , <b>2020</b> , 10, 7506	4.9	5
79	Three-dimensional hierarchical semi-polar GaN/InGaN MQW coaxial nanowires on a patterned Si nanowire template. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1654-1665	5.1	6
78	Monolithic Micro Light-Emitting Diode/Metal Oxide Nanowire Gas Sensor with Microwatt-Level Power Consumption. <i>ACS Sensors</i> , <b>2020</b> , 5, 563-570	9.2	46
77	Determining the Chemical Origin of the Photoluminescence of CesiumBismuthBromide Perovskite Nanocrystals and Improving the Luminescence via Metal Chloride Additives. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4650-4657	6.1	7
76	Hexagonal GaN nanorod-based photonic crystal slab as simultaneous yellow broadband reflector and blue emitter for phosphor-conversion white light emitting devices. <i>Scientific Reports</i> , <b>2020</b> , 10, 358	4.9	4
75	Universal and scalable route to fabricate GaN nanowire-based LED on amorphous substrate by MOCVD. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100541	6.6	14
74	Modulation of Growth Kinetics of Vacuum-Deposited CsPbBr Films for Efficient Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 1944-1952	9.5	20

73	AlGa <sub>N</sub> Deep-Ultraviolet Light-Emitting Diodes with Localized Surface Plasmon Resonance by a High-Density Array of 40 nm Al Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36339-36346	8.5	9
72	Full and gradient structural colouration by lattice amplified gallium nitride Mie-resonators. <i>Nanoscale</i> , <b>2020</b> , 12, 21392-21400	7.7	23
71	Strong and robust polarization anisotropy of site- and size-controlled single InGa <sub>N</sub> /Ga <sub>N</sub> quantum wires. <i>Scientific Reports</i> , <b>2020</b> , 10, 15371	4.9	0
70	Control of the 3-Fold Symmetric Shape of Group III-Nitride Quantum Dots: Suppression of Fine-Structure Splitting. <i>Nano Letters</i> , <b>2020</b> , 20, 8461-8468	11.5	2
69	Direct Transfer of Light's Orbital Angular Momentum onto a Nonresonantly Excited Polariton Superfluid. <i>Physical Review Letters</i> , <b>2019</b> , 122, 045302	7.4	19
68	Ultrafast carrier dynamics of conformally grown semi-polar (112[combining macron]2) Ga <sub>N</sub> /InGa <sub>N</sub> multiple quantum well co-axial nanowires on m-axial Ga <sub>N</sub> core nanowires. <i>Nanoscale</i> , <b>2019</b> , 11, 10932-10943	7.7	11
67	Interplay of strain and intermixing effects on direct-bandgap optical transition in strained Ge-on-Si under thermal annealing. <i>Scientific Reports</i> , <b>2019</b> , 9, 11709	4.9	1
66	Orthogonally Polarized, Dual-Wavelength Quantum Wire Network Emitters Embedded in Single Microrod. <i>Nano Letters</i> , <b>2019</b> , 19, 8454-8460	11.5	5
65	Tailoring the potential landscape of room-temperature single-mode whispering gallery polariton condensate. <i>Optica</i> , <b>2019</b> , 6, 1313	8.6	5
64	Morphology Tailoring and Growth Mechanism of Indium-Rich InGa <sub>N</sub> /Ga <sub>N</sub> Axial Nanowire Heterostructures by Plasma-Assisted Molecular Beam Epitaxy. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 2545-2554	3.5	11
63	Site-Selective, Two-Photon Plasmonic Nanofocusing on a Single Quantum Dot for Near-Room-Temperature Operation. <i>ACS Photonics</i> , <b>2018</b> , 5, 711-717	6.3	7
62	Three-dimensional Ga <sub>N</sub> dodecagonal ring structures for highly efficient phosphor-free warm white light-emitting diodes. <i>Nanoscale</i> , <b>2018</b> , 10, 4686-4695	7.7	17
61	Axial Inhomogeneity of Mg-Doped Ga <sub>N</sub> Rods: A Strong Correlation among Componential, Electrical, and Optical Analyses. <i>ACS Photonics</i> , <b>2018</b> , 5, 2825-2833	6.3	3
60	Strongly Coherent Single-Photon Emission from Site-Controlled InGa <sub>N</sub> Quantum Dots Embedded in Ga <sub>N</sub> Nanopyramids. <i>ACS Photonics</i> , <b>2018</b> , 5, 439-444	6.3	21
59	Nanosinusoidal Surface Zinc Oxide for Optical Out-coupling of Inverted Organic Light-Emitting Diodes. <i>ACS Photonics</i> , <b>2018</b> , 5, 4061-4067	6.3	14
58	Time-reversing a monochromatic subwavelength optical focus by optical phase conjugation of multiply-scattered light. <i>Scientific Reports</i> , <b>2017</b> , 7, 41384	4.9	6
57	Optical and Facet-Dependent Carrier Recombination Properties of Hendecafacet InGa <sub>N</sub> /Ga <sub>N</sub> Microsized Light Emitters. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3649-3655	3.5	3
56	Investigating carrier localization and transfer in InGa <sub>N</sub> /Ga <sub>N</sub> quantum wells with V-pits using near-field scanning optical microscopy and correlation analysis. <i>Scientific Reports</i> , <b>2017</b> , 7, 42221	4.9	13

55	Real-time monitoring and visualization of the multi-dimensional motion of an anisotropic nanoparticle. <i>Scientific Reports</i> , <b>2017</b> , 7, 44167	4.9	0
54	GROUP III-NITRIDE NANOSTRUCTURES FOR LIGHT-EMITTING DEVICES AND BEYOND <b>2017</b> , 369-399		
53	Electrically driven, highly efficient three-dimensional GaN-based light emitting diodes fabricated by self-aligned twofold epitaxial lateral overgrowth. <i>Scientific Reports</i> , <b>2017</b> , 7, 9663	4.9	3
52	Formation of a-plane facets in three-dimensional hexagonal GaN structures for photonic devices. <i>Scientific Reports</i> , <b>2017</b> , 7, 9356	4.9	0
51	How Effective is Plasmonic Enhancement of Colloidal Quantum Dots for Color-Conversion Light-Emitting Devices?. <i>Small</i> , <b>2017</b> , 13, 1701805	11	24
50	Unidirectional Emission of a Site-Controlled Single Quantum Dot from a Pyramidal Structure. <i>Nano Letters</i> , <b>2016</b> , 16, 6117-6123	11.5	10
49	Defect engineering route to boron nitride quantum dots and edge-hydroxylated functionalization for bio-imaging. <i>RSC Advances</i> , <b>2016</b> , 6, 73939-73946	3.7	25
48	Effective suppression of efficiency droop in GaN-based light-emitting diodes: role of significant reduction of carrier density and built-in field. <i>Scientific Reports</i> , <b>2016</b> , 6, 34586	4.9	27
47	Electrically driven, phosphor-free, white light-emitting diodes using gallium nitride-based double concentric truncated pyramid structures. <i>Light: Science and Applications</i> , <b>2016</b> , 5, e16030	16.7	60
46	Extraordinary Strong Fluorescence Evolution in Phosphor on Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 1657-62	24	7
45	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. <i>RSC Advances</i> , <b>2016</b> , 6, 97990-97994	3.7	39
44	Semiconductor Photonic Nanocavity on a Paper Substrate. <i>Advanced Materials</i> , <b>2016</b> , 28, 9765-9769	24	10
43	Towards highly efficient photoanodes: the role of carrier dynamics on the photoelectrochemical performance of InGaN/GaN multiple quantum well coaxial nanowires. <i>RSC Advances</i> , <b>2015</b> , 5, 23303-23310	3.7	24
42	Mie resonance-mediated antireflection effects of Si nanocone arrays fabricated on 8-in. wafers using a nanoimprint technique. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 164	5	8
41	Self-aligned deterministic coupling of single quantum emitter to nanofocused plasmonic modes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5280-5	11.5	32
40	Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots?. <i>Small</i> , <b>2015</b> , 11, 3773-81	11	44
39	Vertically aligned InGaN nanowires with engineered axial In composition for highly efficient visible light emission. <i>Scientific Reports</i> , <b>2015</b> , 5, 17003	4.9	14
38	Superresolution imaging with optical fluctuation using speckle patterns illumination. <i>Scientific Reports</i> , <b>2015</b> , 5, 16525	4.9	24

37	Giant Rabi Splitting of Whispering Gallery Polaritons in GaN/InGaN Core-Shell Wire. <i>Nano Letters</i> , <b>2015</b> , 15, 4517-24	11.5	29
36	Squeezing Photons into a Point-Like Space. <i>Nano Letters</i> , <b>2015</b> , 15, 4102-7	11.5	72
35	Graphene Quantum Dots: Is the Chain of Oxidation and Reduction Process Reversible in Luminescent Graphene Quantum Dots? (Small 31/2015). <i>Small</i> , <b>2015</b> , 11, 3772-3772	11	1
34	Enhanced solar hydrogen generation of high density, high aspect ratio, coaxial InGaN/GaN multi-quantum well nanowires. <i>Nano Energy</i> , <b>2015</b> , 12, 215-223	17.1	89
33	Nonlinear photonic diode behavior in energy-graded core-shell quantum well semiconductor rod. <i>Nano Letters</i> , <b>2014</b> , 14, 4937-42	11.5	9
32	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1016-1023	8.1	199
31	Full-field subwavelength imaging using a scattering superlens. <i>Physical Review Letters</i> , <b>2014</b> , 113, 113901	7.4	58
30	Multi-color broadband visible light source via GaN hexagonal annular structure. <i>Scientific Reports</i> , <b>2014</b> , 4, 5514	4.9	36
29	Optical excitation study on the efficiency droop behaviors of InGaN/GaN multiple-quantum-well structures. <i>Applied Physics B: Lasers and Optics</i> , <b>2014</b> , 114, 551-555	1.9	7
28	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). <i>Advanced Materials</i> , <b>2013</b> , 25, 3748-3748	24	6
27	Optical properties of ZnO powder prepared by using a proteic sol-gel process. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 62, 739-742	0.6	2
26	Subwavelength light focusing using random nanoparticles. <i>Nature Photonics</i> , <b>2013</b> , 7, 454-458	33.9	125
25	Simple analysis method for determining internal quantum efficiency and relative recombination ratios in light emitting diodes. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 211107	3.4	32
24	Surface plasmon modulation induced by a direct-current electric field into gallium nitride thin film grown on Si(111) substrate. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 021905	3.4	7
23	Ultrafast single photon emitting quantum photonic structures based on a nano-obelisk. <i>Scientific Reports</i> , <b>2013</b> , 3, 2150	4.9	40
22	Strong carrier localization and diminished quantum-confined Stark effect in ultra-thin high-indium-content InGaN quantum wells with violet light emission. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 222104	3.4	4
21	Energy coupling processes in InGaN/GaN nanopillar light emitting diodes embedded with Ag and Ag/SiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 21749		18
20	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. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 3838-3844	3.5	22

19	Size-dependent radiative decay processes in graphene quantum dots. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 163103	3-4	24
18	Strong luminescence of two-dimensional electron gas in tensile-stressed AlGaIn/GaN heterostructures grown on Si substrates. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 141917	3-4	10
17	Electroluminescence emission from light-emitting diode of p-ZnO/(InGaIn/GaN) multiquantum well/n-GaN. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 251111	3-4	33
16	Enhanced optical output power of green light-emitting diodes by surface plasmon of gold nanoparticles. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 051106	3-4	124
15	Shell layer dependence of photoblinking in CdSe/ZnSe/ZnS quantum dots. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 012109	3-4	14
14	Electrically driven quantum dot/wire/well hybrid light-emitting diodes. <i>Advanced Materials</i> , <b>2011</b> , 23, 5364-9	24	63
13	Strain and piezoelectric potential effects on optical properties in CdSe/CdS core/shell quantum dots. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 113103	2.5	16
12	Optical transition dynamics in ZnO/ZnMgO multiple quantum well structures with different well widths grown on ZnO substrates. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 033513	2.5	26
11	Carrier transfer and recombination dynamics of a long-lived and visible range emission from multi-stacked GaN/AlGaIn quantum dots. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 061905	3-4	10
10	Spatial correlation between optical properties and defect formation in GaN thin films laterally overgrown on cone-shaped patterned sapphire substrates. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 103506	2.5	32
9	Effects of growth temperature on the optical properties of InN nanostructures grown by MOCVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 2029-2032		
8	Injection of carriers from a ZnO nanostructured shell to a ZnS based microsphere core. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 022108	3-4	3
7	UV photovoltaic cells based on conjugated ZnO quantum dot/multiwalled carbon nanotube heterostructures. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 111906	3-4	42
6	Carrier transfer and redistribution dynamics in vertically aligned stacked In <sub>0.5</sub> Ga <sub>0.5</sub> As quantum dots with different GaAs spacer thicknesses. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 123524	2.5	1
5	Optical properties and carrier dynamics of polarity controlled ZnO films grown on (0001) Al <sub>2</sub> O <sub>3</sub> by Cr-compound intermediate layers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 061918	3-4	4
4	Violet-light spontaneous and stimulated emission from ultrathin In-rich InGaIn/GaN multiple quantum wells grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 161905	3-4	5
3	Carrier dynamics of high-efficiency green light emission in graded-indium-content InGaIn/GaN quantum wells: An important role of effective carrier transfer. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 49-51	3-4	24
2	Universal Patterning for 2D Van der Waals Materials via Direct Optical Lithography. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2105302	15.6	4

1	Silk and Paper: Progress and Prospects in Green Photonics and Electronics. <i>Advanced Sustainable Systems</i> ,2000216	5.9	9
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