

# Jungkil Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,411  
citations

394421

19  
h-index

395702

33  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2511  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in nanocavities and their applications. <i>Chemical Communications</i> , 2021, 57, 4875-4885.	4.1	8
2	Electrically driven strain-induced deterministic single-photon emitters in a van der Waals heterostructure. <i>Science Advances</i> , 2021, 7, eabj3176.	10.3	28
3	Substrate-directed synthesis of MoS <sub>2</sub> nanocrystals with tunable dimensionality and optical properties. <i>Nature Nanotechnology</i> , 2020, 15, 29-34.	31.5	94
4	Structural and electronic switching of a single crystal 2D metal-organic framework prepared by chemical vapor deposition. <i>Nature Communications</i> , 2020, 11, 5524.	12.8	37
5	Recent Progress in Nanolaser Technology. <i>Advanced Materials</i> , 2020, 32, e2001996.	21.0	38
6	Near-Infrared Photoresponse in Photon-Triggered Nanowire Transistors. <i>Journal of the Korean Physical Society</i> , 2019, 75, 68-72.	0.7	1
7	Si nanowires with porous segments for photon-triggered transistors. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 373001.	2.8	1
8	Photon-Triggered Current Generation in Chemically-Synthesized Silicon Nanowires. <i>Nano Letters</i> , 2019, 19, 1269-1274.	9.1	11
9	Unique Scattering Properties of Silicon Nanowires Embedded with Porous Segments. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21094-21099.	8.0	4
10	Optical stimulation of cardiac cells with a polymer-supported silicon nanowire matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 413-421.	7.1	76
11	Selective Pump Focusing on Individual Laser Modes in Microcavities. <i>ACS Photonics</i> , 2018, 5, 2791-2798.	6.6	10
12	Formation of Triboelectric Series <i>via</i> Atomic-Level Surface Functionalization for Triboelectric Energy Harvesting. <i>ACS Nano</i> , 2017, 11, 6131-6138.	14.6	172
13	Photon-triggered nanowire transistors. <i>Nature Nanotechnology</i> , 2017, 12, 963-968.	31.5	95
14	Enhancement of Light Absorption in Silicon Nanowire Photovoltaic Devices with Dielectric and Metallic Grating Structures. <i>Nano Letters</i> , 2017, 17, 7731-7736.	9.1	17
15	Energy transfer from an individual silica nanoparticle to graphene quantum dots and resulting enhancement of photodetector responsivity. <i>Scientific Reports</i> , 2016, 6, 27145.	3.3	32
16	Precise and selective sensing of DNA-DNA hybridization by graphene/Si-nanowires diode-type biosensors. <i>Scientific Reports</i> , 2016, 6, 31984.	3.3	19
17	Structural and optical characteristics of graphene quantum dots size-controlled and well-aligned on a large scale by polystyrene-nanosphere lithography. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 025308.	2.8	12
18	Sequential structural and optical evolution of MoS <sub>2</sub> by chemical synthesis and exfoliation. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1852-1855.	0.7	3

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19	Graphene/Si-Quantum-Dot Heterojunction Diodes Showing High Photosensitivity Compatible with Quantum Confinement Effect. <i>Advanced Materials</i> , 2015, 27, 2614-2620.	21.0	56
20	Graphene-Assisted Chemical Etching of Silicon Using Anodic Aluminum Oxides as Patterning Templates. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24242-24246.	8.0	30
21	Effect of nitrogen doping on the structural and the optical variations of graphene quantum dots by using hydrazine treatment. <i>Journal of the Korean Physical Society</i> , 2015, 67, 746-751.	0.7	9
22	Near-Ultraviolet-Sensitive Graphene/Porous Silicon Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 20880-20886.	8.0	84
23	Formation of three-dimensional GaAs microstructures by combination of wet and metal-assisted chemical etching. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 345-348.	2.4	9
24	High efficiency n-ZnO/p-Si core-shell nanowire photodiode based on well-ordered Si nanowire array with smooth surface. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 297-302.	4.0	17
25	Graphene-quantum-dot nonvolatile charge-trap flash memories. <i>Nanotechnology</i> , 2014, 25, 255203.	2.6	26
26	Graphene/Si-nanowire heterostructure molecular sensors. <i>Scientific Reports</i> , 2014, 4, 5384.	3.3	47
27	Formation of a Top Electrode on Vertical Si Nanowire Devices Using Graphene as a Supporting Layer. <i>Applied Physics Express</i> , 2012, 5, 105103.	2.4	5
28	Air-Bridged Ohmic Contact on Vertically Aligned Si Nanowire Arrays: Application to Molecule Sensors. <i>Advanced Materials</i> , 2012, 24, 2284-2288.	21.0	35
29	Curved Silicon Nanowires with Ribbon-like Cross Sections by Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2011, 5, 5242-5248.	14.6	107
30	A continuous process for Si nanowires with prescribed lengths. <i>Journal of Materials Chemistry</i> , 2011, 21, 15889.	6.7	27
31	Au/Ag Bilayered Metal Mesh as a Si Etching Catalyst for Controlled Fabrication of Si Nanowires. <i>ACS Nano</i> , 2011, 5, 3222-3229.	14.6	163
32	AhnetAal.Reply:. <i>Physical Review Letters</i> , 2011, 107, .	7.8	2
33	Self-assembled growth and luminescence of crystalline Si/SiOxcore-shell nanowires. <i>Nanotechnology</i> , 2010, 21, 205601.	2.6	9
34	Plasmon-Enhanced Ultraviolet Photoluminescence from Hybrid Structures of Graphene/ZnO Films. <i>Physical Review Letters</i> , 2010, 105, 127403.	7.8	127