Jungkil Kim

List of Publications by Year
in descending order

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		394421	395702
34	1,411	19	33
papers	citations	h-index	g-index

34	34	34	2511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation of Triboelectric Series via Atomic-Level Surface Functionalization for Triboelectric Energy Harvesting. ACS Nano, 2017, 11, 6131-6138.	14.6	172
2	Au/Ag Bilayered Metal Mesh as a Si Etching Catalyst for Controlled Fabrication of Si Nanowires. ACS Nano, 2011, 5, 3222-3229.	14.6	163
3	Plasmon-Enhanced Ultraviolet Photoluminescence from Hybrid Structures of Graphene/ZnO Films. Physical Review Letters, 2010, 105, 127403.	7.8	127
4	Curved Silicon Nanowires with Ribbon-like Cross Sections by Metal-Assisted Chemical Etching. ACS Nano, 2011, 5, 5242-5248.	14.6	107
5	Photon-triggered nanowire transistors. Nature Nanotechnology, 2017, 12, 963-968.	31.5	95
6	Substrate-directed synthesis of MoS2 nanocrystals with tunable dimensionality and optical properties. Nature Nanotechnology, 2020, 15, 29-34.	31.5	94
7	Near-Ultraviolet-Sensitive Graphene/Porous Silicon Photodetectors. ACS Applied Materials & Interfaces, 2014, 6, 20880-20886.	8.0	84
8	Optical stimulation of cardiac cells with a polymer-supported silicon nanowire matrix. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 413-421.	7.1	76
9	Graphene/Siâ€Quantumâ€Dot Heterojunction Diodes Showing High Photosensitivity Compatible with Quantum Confinement Effect. Advanced Materials, 2015, 27, 2614-2620.	21.0	56
10	Graphene/Si-nanowire heterostructure molecular sensors. Scientific Reports, 2014, 4, 5384.	3.3	47
11	Recent Progress in Nanolaser Technology. Advanced Materials, 2020, 32, e2001996.	21.0	38
12	Structural and electronic switching of a single crystal 2D metal-organic framework prepared by chemical vapor deposition. Nature Communications, 2020, 11, 5524.	12.8	37
13	Airâ€Bridged Ohmic Contact on Vertically Aligned Si Nanowire Arrays: Application to Molecule Sensors. Advanced Materials, 2012, 24, 2284-2288.	21.0	35
14	Energy transfer from an individual silica nanoparticle to graphene quantum dots and resulting enhancement of photodetector responsivity. Scientific Reports, 2016, 6, 27145.	3.3	32
15	Graphene-Assisted Chemical Etching of Silicon Using Anodic Aluminum Oxides as Patterning Templates. ACS Applied Materials & Interfaces, 2015, 7, 24242-24246.	8.0	30
16	Electrically driven strain-induced deterministic single-photon emitters in a van der Waals heterostructure. Science Advances, 2021, 7, eabj3176.	10.3	28
17	A continuous process for Si nanowires with prescribed lengths. Journal of Materials Chemistry, 2011, 21, 15889.	6.7	27
18	Graphene-quantum-dot nonvolatile charge-trap flash memories. Nanotechnology, 2014, 25, 255203.	2.6	26

#	Article	IF	Citations
19	Precise and selective sensing of DNA-DNA hybridization by graphene/Si-nanowires diode-type biosensors. Scientific Reports, 2016, 6, 31984.	3.3	19
20	High efficiency n-ZnO/p-Si coreâ€“shell nanowire photodiode based on well-ordered Si nanowire array with smooth surface. Materials Science in Semiconductor Processing, 2014, 27, 297-302.	4.0	17
21	Enhancement of Light Absorption in Silicon Nanowire Photovoltaic Devices with Dielectric and Metallic Grating Structures. Nano Letters, 2017, 17, 7731-7736.	9.1	17
22	Structural and optical characteristics of graphene quantum dots size-controlled and well-aligned on a large scale by polystyrene-nanosphere lithography. Journal Physics D: Applied Physics, 2016, 49, 025308.	2.8	12
23	Photon-Triggered Current Generation in Chemically-Synthesized Silicon Nanowires. Nano Letters, 2019, 19, 1269-1274.	9.1	11
24	Selective Pump Focusing on Individual Laser Modes in Microcavities. ACS Photonics, 2018, 5, 2791-2798.	6.6	10
25	Self-assembled growth and luminescence of crystalline Si/SiOxcoreâ€“shell nanowires. Nanotechnology, 2010, 21, 205601.	2.6	9
26	Formation of threeâ€dimensional GaAs microstructures by combination of wet and metalâ€assisted chemical etching. Physica Status Solidi - Rapid Research Letters, 2014, 8, 345-348.	2.4	9
27	Effect of nitrogen doping on the structural and the optical variations of graphene quantum dots by using hydrazine treatment. Journal of the Korean Physical Society, 2015, 67, 746-751.	0.7	9
28	Recent advances in nanocavities and their applications. Chemical Communications, 2021, 57, 4875-4885.	4.1	8
29	Formation of a Top Electrode on Vertical Si Nanowire Devices Using Graphene as a Supporting Layer. Applied Physics Express, 2012, 5, 105103.	2.4	5
30	Unique Scattering Properties of Silicon Nanowires Embedded with Porous Segments. ACS Applied Materials & Interfaces, 2019, 11, 21094-21099.	8.0	4
31	Sequential structural and optical evolution of MoS2 by chemical synthesis and exfoliation. Journal of the Korean Physical Society, 2015, 66, 1852-1855.	0.7	3
32	AhnetÂal.Reply:. Physical Review Letters, 2011, 107, .	7.8	2
33	Near-Infrared Photoresponse in Photon-Triggered Nanowire Transistors. Journal of the Korean Physical Society, 2019, 75, 68-72.	0.7	1
34	Si nanowires with porous segments for photon-triggered transistors. Journal Physics D: Applied Physics, 2019, 52, 373001.	2.8	1