Young Heon Kim

List of Publications by Year
in descending order

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57	1,273	394421	361022
papers	citations	19 h-index	35 g-index

57	57	57	2620
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Highly Elastic Grapheneâ€Based Electronics Toward Electronic Skin. Advanced Functional Materials, 2017, 27, 1701513.	14.9	123
3	Curved Silicon Nanowires with Ribbon-like Cross Sections by Metal-Assisted Chemical Etching. ACS Nano, 2011, 5, 5242-5248.	14.6	107
4	Synaptic Plasticity Selectively Activated by Polarization-Dependent Energy-Efficient Ion Migration in an Ultrathin Ferroelectric Tunnel Junction. Nano Letters, 2017, 17, 1949-1955.	9.1	79
5	Persistent Photoconductivity in Strained Epitaxial BiFeO₃ Thin Films. Nano Letters, 2014, 14, 5224-5228.	9.1	64
6	Spintronic Functionality of BiFeO₃ Domain Walls. Advanced Materials, 2014, 26, 7078-7082.	21.0	56
7	Creating Effective Nanoreactors on Carbon Nanotubes with Mechanochemical Treatments for Highâ€Arealâ€Capacity Sulfur Cathodes and Lithium Anodes. Advanced Functional Materials, 2018, 28, 1800595.	14.9	52
8	Preparation and phase transition of FeOOH nanorods: strain effects on catalytic water oxidation. Nanoscale, 2017, 9, 4751-4758.	5.6	50
9	Active doping of B in silicon nanostructures and development of a Si quantum dot solar cell. Nanotechnology, 2011, 22, 425203.	2.6	37
10	Control of carbon nanotube growth using cobalt nanoparticles as catalyst. Applied Surface Science, 2005, 249, 145-150.	6.1	36
11	Template-free and filamentary growth of silver nanowires: application to anisotropic conductive transparent flexible electrodes. Nanoscale, 2013, 5, 1864.	5.6	35
12	Intrinsic defect-mediated conduction and resistive switching in multiferroic BiFeO3 thin films epitaxially grown on SrRuO3 bottom electrodes. Applied Physics Letters, 2016, 108, .	3.3	33
13	Grain-size effect on the electrical properties of nanocrystalline indium tin oxide thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 199, 37-41.	3.5	31
14	Low temperature and self-catalytic growth of tetragonal SnO nanobranch. Materials Letters, 2010, 64, 1120-1122.	2.6	29
15	In Situ Growth of the Bi₂S₃ Nanowire Array on the Bi₂MoO₆ Film for an Improved Photoelectrochemical Performance. ACS Omega, 2019, 4, 17359-17365.	3.5	28
16	Atomistic evolution during the phase transition on a metastable single NaYF4:Yb,Er upconversion nanoparticle. Scientific Reports, 2018, 8, 2199.	3.3	27
17	Physically-synthesized gold nanoparticles containing multiple nanopores for enhanced photothermal conversion and photoacoustic imaging. Nanoscale, 2016, 8, 15514-15520.	5.6	26
18	Polarity-tunable magnetic tunnel junctions based on ferromagnetism at oxide heterointerfaces. Nature Communications, 2015, 6, 8035.	12.8	24

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19	Size and shape distributions of primary crystallites in titania aggregates. Advanced Powder Technology, 2017, 28, 1647-1659.	4.1	23
20	Hot pressed translucent (Mg,Y)-Î±/Î²-Sialon ceramics. Materials Letters, 2012, 80, 178-180.	2.6	19
21	Synthesis and electrochemical capacitance of long tungsten oxide nanorod arrays grown vertically on substrate. Materials Research Bulletin, 2012, 47, 3612-3618.	5.2	18
22	Filamentary one-dimensional nanocrystal growth of Cu, AgCu, and Au in ultra-dilute electrolytes. Journal of Alloys and Compounds, 2013, 580, 152-156.	5.5	15
23	Lubricant-Added Conductive Composite for Direct Writing of a Stretchable Electrode. ACS Applied Materials & Interfaces, 2019, 11, 48459-48465.	8.0	15
24	Low resistivity of Pt silicide nanowires measured using double-scanning-probe tunneling microscope. Applied Physics Letters, 2008, 92, 203114.	3.3	14
25	Electromechanical Properties and Spontaneous Response of the Current in InAsP Nanowires. Nano Letters, 2016, 16, 6738-6745.	9.1	14
26	<scp>TEM</scp> Observations on 0.65<scp><scp>Pb</scp></scp>(<scp><scp>Zr</scp></scp>_{0.42}<scp><scp>Ti</scp></scp>_{0.58})<scp><scp> Ceramics with <scp><scp>CuO</scp></scp> Additive. Journal of the American Ceramic Society, 2013, 96, 312-317.	3.8	13
27	Hydrogen passivation: a proficient strategy to enhance the optical and photoelectrochemical performance of InGaN/GaN single-quantum-well nanorods. Nanotechnology, 2020, 31, 475201.	2.6	10
28	Photovoltaic Photodetectors Based on In₂O₃/InN Coreâ€“Shell Nanorods. ACS Applied Nano Materials, 2022, 5, 7418-7426.	5.0	10
29	Indium-related novel architecture of GaN nanorod grown by molecular beam epitaxy. Chemical Physics Letters, 2005, 412, 454-458.	2.6	9
30	Novel Route from a Wurtzite to a Rock-Salt Structure in CoO Nanocrystals: In Situ Transmission Electron Microscopy Study. Journal of Physical Chemistry C, 2019, 123, 10689-10694.	3.1	9
31	Effect of oxygen plasma treatment on CdSe/CdZnS quantum-dot light-emitting diodes. Japanese Journal of Applied Physics, 2014, 53, 032101.	1.5	8
32	Inversion domain boundaries on tin (Sn)-doped ZnO nanobelts: Aberration-corrected scanning transmission electron microscopy study. Applied Physics Letters, 2013, 102, 033103.	3.3	7
33	Sub-band level-assisted photoconduction in epitaxial BiFeO3 films. Applied Physics Letters, 2014, 105, 122905.	3.3	7
34	Hydrogenation-produced In₂O₃/InN coreâ€“shell nanorod and its effect on NO₂ gas sensing behavior. Nanotechnology, 2020, 31, 335503.	2.6	7
35	Feather-Shaped InGaN Nanorods for Selective ppb-Level Detection of NO₂ Gas at Room Temperature. ACS Applied Nano Materials, 2021, 4, 13288-13296.	5.0	7
36	Preparation and Stability of PEGDA/GO Conductive Materials by DLP 3D Printing. Electronic Materials Letters, 2022, 18, 275-281.	2.2	7

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37	Type-II InAs/GaSb strained layer superlattices grown on GaSb (111)B substrate. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 03C123.	1.2	6
38	Study on fracture behavior of individual InAs nanowires using an electron-beam-drilled notch. RSC Advances, 2017, 7, 16655-16661.	3.6	6
39	Anisotropic atomistic evolution during the sublimation of polar InAs nanowires. Nanoscale, 2019, 11, 6685-6692.	5.6	6
40	Formation and microstructural characterization of In2O3 sheath layer on InN nanostructures. Chemical Physics Letters, 2010, 499, 131-135.	2.6	5
41	Transmission Electron Microscopy Microstructure of (K_{0.5}Na_{0.5})NbO₃ Ceramics with CuO Addition. Japanese Journal of Applied Physics, 2012, 51, 035602.	1.5	5
42	Heterointerface Effect on Two-Step Nucleation Mechanism of Bi Particles. Nano Letters, 2022, 22, 3252-3259.	9.1	5
43	Abnormal elastic modulus behavior in a crystallineâ€“amorphous coreâ€“shell nanowire system. Physical Chemistry Chemical Physics, 2018, 20, 16276-16284.	2.8	4
44	Microstructural evolution in self-catalyzed GaAs nanowires during in-situ TEM study. Nanotechnology, 2021, 32, 145709.	2.6	4
45	Direct Observation of Domain Motion Synchronized with Resistive Switching in Multiferroic Thin Films. ACS Applied Materials & Interfaces, 2016, 8, 35464-35471.	8.0	3
46	Fabrication of a trimer/single atom tip for gas field ion sources by means of field evaporation without tip heating. Ultramicroscopy, 2018, 192, 50-56.	1.9	3
47	Transmission electron microscopy study of damage layer formed through ion beam induced deposition of platinum on silicon substrate. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6F31-C6F37.	1.2	2
48	Hexagonal and pentagonal shapes of self-catalyzed one-dimensional GaAs nanostructures: Shape dependence of the phase evolutions. Applied Physics Letters, 2012, 100, 133112.	3.3	2
49	Formation characteristics of a self-catalyzed GaAs nanowire without a Ga droplet on Si(111). Journal of the Korean Physical Society, 2012, 61, 2017-2021.	0.7	2
50	Redox reaction-assisted growth of ZnO nanowires on SnO2 thin films. Materials Letters, 2012, 66, 106-109.	2.6	2
51	Microstructural Observations in (Na0.5K0.5)NbO3Ceramics with CuO and ZnO Additives. Japanese Journal of Applied Physics, 2013, 52, 031501.	1.5	2
52	Microstructural properties of GaN grown on a Si(110) substrate by gas-source molecular beam epitaxy: Dependence on the ammonia flux. Current Applied Physics, 2015, 15, 232-237.	2.4	2
53	Formation of arsenic clusters in InAs nanowires with an Al₂O₃ shell. RSC Advances, 2021, 11, 177-182.	3.6	1
54	Accelerated decomposition of Bi2S3 nanorods in water under an electron beam: a liquid phase transmission electron microscopy study. Nanotechnology, 2021, 32, 195702.	2.6	1

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55	A Transmission Electron Microscopy Study on Self-Catalyzed GaAs Nanostructures. Microscopy and Microanalysis, 2014, 20, 880-881.	0.4	0
56	Controllable three-dimensional ZnO hybrid nanostructures. Materials Research Express, 2019, 6, 0850b8.	1.6	0
57	Thermodynamic patterns during in-situ heating of InAs nanowires encapsulated in Al2O3 shells. Nanotechnology, 2021, 33, .	2.6	0