

Young Heon Kim

List of Publications by Citations

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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.

52
papers

1,001
citations

17
h-index

30
g-index

57
ext. papers

1,134
ext. citations

5.8
avg, IF

4.03
L-index

#	Paper	IF	Citations
52	Au/Ag bilayered metal mesh as a si etching catalyst for controlled fabrication of si nanowires. <i>ACS Nano</i> , 2011 , 5, 3222-9	16.7	155
51	Curved silicon nanowires with ribbon-like cross sections by metal-assisted chemical etching. <i>ACS Nano</i> , 2011 , 5, 5242-8	16.7	98
50	Highly Elastic Graphene-Based Electronics Toward Electronic Skin. <i>Advanced Functional Materials</i> , 2017 , 27, 1701513	15.6	95
49	Synaptic Plasticity Selectively Activated by Polarization-Dependent Energy-Efficient Ion Migration in an Ultrathin Ferroelectric Tunnel Junction. <i>Nano Letters</i> , 2017 , 17, 1949-1955	11.5	62
48	Persistent photoconductivity in strained epitaxial BiFeO ₃ thin films. <i>Nano Letters</i> , 2014 , 14, 5224-8	11.5	57
47	Spintronic functionality of BiFeO ₃ domain walls. <i>Advanced Materials</i> , 2014 , 26, 7078-82	24	44
46	Preparation and phase transition of FeOOH nanorods: strain effects on catalytic water oxidation. <i>Nanoscale</i> , 2017 , 9, 4751-4758	7.7	41
45	Creating Effective Nanoreactors on Carbon Nanotubes with Mechanochemical Treatments for High-Areal-Capacity Sulfur Cathodes and Lithium Anodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1800595	15.6	39
44	Control of carbon nanotube growth using cobalt nanoparticles as catalyst. <i>Applied Surface Science</i> , 2005 , 249, 145-150	6.7	32
43	Active doping of B in silicon nanostructures and development of a Si quantum dot solar cell. <i>Nanotechnology</i> , 2011 , 22, 425203	3.4	30
42	Template-free and filamentary growth of silver nanowires: application to anisotropic conductive transparent flexible electrodes. <i>Nanoscale</i> , 2013 , 5, 1864-9	7.7	26
41	Low temperature and self-catalytic growth of tetragonal SnO nanobranh. <i>Materials Letters</i> , 2010 , 64, 1120-1122	3.3	24
40	Physically-synthesized gold nanoparticles containing multiple nanopores for enhanced photothermal conversion and photoacoustic imaging. <i>Nanoscale</i> , 2016 , 8, 15514-20	7.7	23
39	Intrinsic defect-mediated conduction and resistive switching in multiferroic BiFeO ₃ thin films epitaxially grown on SrRuO ₃ bottom electrodes. <i>Applied Physics Letters</i> , 2016 , 108, 112902	3.4	20
38	Size and shape distributions of primary crystallites in titania aggregates. <i>Advanced Powder Technology</i> , 2017 , 28, 1647-1659	4.6	19
37	Atomistic evolution during the phase transition on a metastable single NaYF ₃ :Yb,Er upconversion nanoparticle. <i>Scientific Reports</i> , 2018 , 8, 2199	4.9	19
36	Grain-size effect on the electrical properties of nanocrystalline indium tin oxide thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 199, 37-41	3.1	18

35	Polarity-tunable magnetic tunnel junctions based on ferromagnetism at oxide heterointerfaces. <i>Nature Communications</i> , 2015 , 6, 8035	17.4	17
34	In Situ Growth of the BiS Nanowire Array on the BiMoO Film for an Improved Photoelectrochemical Performance. <i>ACS Omega</i> , 2019 , 4, 17359-17365	3.9	17
33	Synthesis and electrochemical capacitance of long tungsten oxide nanorod arrays grown vertically on substrate. <i>Materials Research Bulletin</i> , 2012 , 47, 3612-3618	5.1	16
32	Hot pressed translucent (Mg,Y)-PSialon ceramics. <i>Materials Letters</i> , 2012 , 80, 178-180	3.3	15
31	Low resistivity of Pt silicide nanowires measured using double-scanning-probe tunneling microscope. <i>Applied Physics Letters</i> , 2008 , 92, 203114	3.4	14
30	Electromechanical Properties and Spontaneous Response of the Current in InAsP Nanowires. <i>Nano Letters</i> , 2016 , 16, 6738-6745	11.5	11
29	Filamentary one-dimensional nanocrystal growth of Cu, AgCu, and Au in ultra-dilute electrolytes. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 152-156	5.7	10
28	TEM Observations on 0.65Pb(Zr0.42Ti0.58)O3-0.35Pb(Ni0.33Nb0.67)O3 Ceramics with CuO Additive. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 312-317	3.8	9
27	Lubricant-Added Conductive Composite for Direct Writing of a Stretchable Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48459-48465	9.5	8
26	Indium-related novel architecture of GaN nanorod grown by molecular beam epitaxy. <i>Chemical Physics Letters</i> , 2005 , 412, 454-458	2.5	7
25	Study on fracture behavior of individual InAs nanowires using an electron-beam-drilled notch. <i>RSC Advances</i> , 2017 , 7, 16655-16661	3.7	6
24	Sub-band level-assisted photoconduction in epitaxial BiFeO3 films. <i>Applied Physics Letters</i> , 2014 , 105, 122905	3.4	6
23	Effect of oxygen plasma treatment on CdSe/CdZnS quantum-dot light-emitting diodes. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 032101	1.4	5
22	Inversion domain boundaries on tin (Sn)-doped ZnO nanobelts: Aberration-corrected scanning transmission electron microscopy study. <i>Applied Physics Letters</i> , 2013 , 102, 033103	3.4	5
21	Formation and microstructural characterization of In2O3 sheath layer on InN nanostructures. <i>Chemical Physics Letters</i> , 2010 , 499, 131-135	2.5	5
20	Hydrogen passivation: a proficient strategy to enhance the optical and photoelectrochemical performance of InGaN/GaN single-quantum-well nanorods. <i>Nanotechnology</i> , 2020 , 31, 475201	3.4	5
19	Hydrogenation-produced InO/InN core-shell nanorod and its effect on NO gas sensing behavior. <i>Nanotechnology</i> , 2020 , 31, 335503	3.4	4
18	Abnormal elastic modulus behavior in a crystalline-amorphous core-shell nanowire system. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16276-16284	3.6	4

17	Anisotropic atomistic evolution during the sublimation of polar InAs nanowires. <i>Nanoscale</i> , 2019 , 11, 6685-6692	7.7	3
16	Fabrication of a trimer/single atom tip for gas field ion sources by means of field evaporation without tip heating. <i>Ultramicroscopy</i> , 2018 , 192, 50-56	3.1	3
15	Type-II InAs/GaSb strained layer superlattices grown on GaSb (111)B substrate. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 03C123	1.3	3
14	Direct Observation of Domain Motion Synchronized with Resistive Switching in Multiferroic Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35464-35471	9.5	3
13	Novel Route from a Wurtzite to a Rock-Salt Structure in CoO Nanocrystals: In Situ Transmission Electron Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10689-10694	3.8	2
12	Redox reaction-assisted growth of ZnO nanowires on SnO ₂ thin films. <i>Materials Letters</i> , 2012 , 66, 106-109	3.3	2
11	Microstructural properties of GaN grown on a Si(110) substrate by gas-source molecular beam epitaxy: Dependence on the ammonia flux. <i>Current Applied Physics</i> , 2015 , 15, 232-237	2.6	2
10	Formation characteristics of a self-catalyzed GaAs nanowire without a Ga droplet on Si(111). <i>Journal of the Korean Physical Society</i> , 2012 , 61, 2017-2021	0.6	2
9	Microstructural Observations in (Na _{0.5} K _{0.5})NbO ₃ Ceramics with CuO and ZnO Additives. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 031501	1.4	2
8	Transmission electron microscopy study of damage layer formed through ion beam induced deposition of platinum on silicon substrate. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C6F31-C6F37	1.3	2
7	Transmission Electron Microscopy Microstructure of (K _{0.5} Na _{0.5})NbO ₃ Ceramics with CuO Addition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 035602	1.4	2
6	Hexagonal and pentagonal shapes of self-catalyzed one-dimensional GaAs nanostructures: Shape dependence of the phase evolutions. <i>Applied Physics Letters</i> , 2012 , 100, 133112	3.4	2
5	Accelerated decomposition of BiS nanorods in water under an electron beam: a liquid phase transmission electron microscopy study. <i>Nanotechnology</i> , 2021 , 32, 195702	3.4	1
4	Microstructural evolution in self-catalyzed GaAs nanowires during in-situ TEM study. <i>Nanotechnology</i> , 2021 , 32, 145709	3.4	1
3	Preparation and Stability of PEGDA/GO Conductive Materials by DLP 3D Printing. <i>Electronic Materials Letters</i> , 1	2.9	0
2	Controllable three-dimensional ZnO hybrid nanostructures. <i>Materials Research Express</i> , 2019 , 6, 0850b8	1.7	
1	Formation of arsenic clusters in InAs nanowires with an AlO shell. <i>RSC Advances</i> , 2020 , 11, 177-182	3.7	