Hyun-Mi Kim

List of Publications by Year in descending order

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430874 395702 1,099 45 18 33 citations h-index g-index papers 45 45 45 1831 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Structural and Electrical Properties of Atomic Layer Deposited Alâ€Doped ZnO Films. Advanced Functional Materials, 2011, 21, 448-455.	14.9	233
2	Highâ€Performance Microâ€Solid Oxide Fuel Cells Fabricated on Nanoporous Anodic Aluminum Oxide Templates. Advanced Functional Materials, 2011, 21, 1154-1159.	14.9	151
3	A Low-Noise Solid-State Nanopore Platform Based on a Highly Insulating Substrate. Scientific Reports, 2014, 4, 7448.	3.3	103
4	Synchronized Optical and Electronic Detection of Biomolecules Using a Low Noise Nanopore Platform. ACS Nano, 2015, 9, 1740-1748.	14.6	62
5	Digital versus analog resistive switching depending on the thickness of nickel oxide nanoparticle assembly. RSC Advances, 2013, 3, 20978.	3.6	53
6	Homogeneous dispersion of organic p-dopants in an organic semiconductor as an origin of high charge generation efficiency. Applied Physics Letters, 2011, 98, .	3.3	40
7	Identifying the Location of a Single Protein along the DNA Strand Using Solid-State Nanopores. ACS Nano, 2015, 9, 5289-5298.	14.6	40
8	Noise and sensitivity characteristics of solid-state nanopores with a boron nitride 2-D membrane on a pyrex substrate. Nanoscale, 2016, 8, 5755-5763.	5.6	39
9	Self-assembly and continuous growth of hexagonal graphene flakes on liquid Cu. Nanoscale, 2015, 7, 12820-12827.	5.6	31
10	Theoretical and experimental study of nanopore drilling by a focused electron beam in transmission electron microscopy. Nanotechnology, 2011, 22, 275303.	2.6	29
11	Highly Stable and Effective Doping of Graphene by Selective Atomic Layer Deposition of Ruthenium. ACS Applied Materials & Samp; Interfaces, 2017, 9, 701-709.	8.0	29
12	Analysis of the electric field induced elemental separation of Ge2Sb2Te5 by transmission electron microscopy. Applied Physics Letters, 2009, 95, .	3.3	28
13	Efficient Blue-Light-Emitting Cd-Free Colloidal Quantum Well and Its Application in Electroluminescent Devices. Chemistry of Materials, 2020, 32, 5200-5207.	6.7	26
14	Selective Atomic Layer Deposition of Metals on Graphene for Transparent Conducting Electrode Application. ACS Applied Materials & Samp; Interfaces, 2020, 12, 14331-14340.	8.0	26
15	Investigation of analog memristive switching of iron oxide nanoparticle assembly between Pt electrodes. Journal of Applied Physics, 2013, 114, 224505.	2.5	24
16	Selective growth of Ge islands on nanometer-scale patterned SiO2â^•Si substrate by molecular beam epitaxy. Applied Physics Letters, 2006, 89, 063107.	3.3	23
17	Multimode threshold and bipolar resistive switching in bi-layered Pt-Fe2O3 core-shell and Fe2O3 nanoparticle assembly. Applied Physics Letters, 2013, 102, .	3.3	23
18	Sheet Resistance Analysis of Interface-Engineered Multilayer Graphene: Mobility Versus Sheet Carrier Concentration. ACS Applied Materials & Samp; Interfaces, 2020, 12, 30932-30940.	8.0	18

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19	Solid-state growth of nickel silicide nanowire by the metal-induced growth method. Journal of Materials Research, 2006, 21, 2936-2940.	2.6	13
20	Atomic Layer Deposition of Nickel Using a Heteroleptic Ni Precursor with NH ₃ and Selective Deposition on Defects of Graphene. ACS Omega, 2019, 4, 11126-11134.	3 . 5	13
21	An electrophoretic DNA extraction device using a nanofilter for molecular diagnosis of pathogens. Nanoscale, 2020, 12, 5048-5054.	5.6	11
22	Non-volatile nano-floating gate memory with Pt-Fe2O3 composite nanoparticles and indium gallium zinc oxide channel. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	10
23	Leakage current in a Si-based nanopore structure and its influence on noise characteristics. Microfluidics and Nanofluidics, 2014, 16, 123-130.	2.2	9
24	Microstructure analysis of epitaxially grown self-assembled Ge islands on nanometer-scale patterned SiO2â̂•Si substrates by high-resolution transmission electron microscopy. Journal of Applied Physics, 2007, 102, 104306.	2.5	8
25	Growth kinetics of MgB2 layer and interfacial MgO layer during ex situ annealing of amorphous boron film. Journal of Materials Research, 2004, 19, 3081-3089.	2.6	7
26	Electrical Properties of Silicon Nanowire Fabricated by Patterning and Oxidation Process. IEEE Nanotechnology Magazine, 2012, 11, 565-569.	2.0	6
27	Study of growth behaviour and microstructure of epitaxially grown selfâ€assembled Ge quantum dots on nanometerâ€scale patterned SiO ₂ /Si(001) substrates. Physica Status Solidi (B): Basic Research, 2009, 246, 721-724.	1.5	5
28	Method of improving the quality of nanopatterning in atomic image projection electron-beam lithography. Journal of Vacuum Science & Technology B, 2009, 27, 2553.	1.3	4
29	Fabrication of ultra-high-density nanodot array patterns (â^1/43 Tbits/in.2) using electron-beam lithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 061602.	1.2	4
30	Gas transport controlled synthesis of graphene by employing a micro-meter scale gap jig. RSC Advances, 2013, 3, 26376.	3.6	4
31	Graphene-Based Etch Resist for Semiconductor Device Fabrication. ACS Applied Nano Materials, 2020, 3, 4635-4641.	5.0	4
32	Nanopore formation in TiN membranes by the focused electron beam of a transmission electron microscope. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 06F502.	1.2	3
33	The dynamics of electron beam scattering on metal membranes: nanopore formation in metal membranes using transmission electron microscopy. Nano Convergence, 2018, 5, 32.	12.1	3
34	Effect of the Bilayer Period of Atomic Layer Deposition on the Growth Behavior and Electrical Properties of the Amorphous In–Zn–O Film. ACS Applied Materials & Interfaces, 2020, 12, 39372-39380.	8.0	3
35	Comparison of Growth Behavior and Electrical Properties of Graphene Grown on Solid and Liquid Copper by Chemical Vapor Deposition. Journal of Nanoscience and Nanotechnology, 2020, 20, 316-323.	0.9	3
36	Surface modification of solid-state nanopore by plasma-polymerized chemical vapor deposition of poly(ethylene glycol) for stable device operation. Nanotechnology, 2020, 31, 185503.	2.6	3

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37	The reaction sequence and microstructure evolution of an MgB2 layer during ex situ annealing of amorphous boron film. Journal of Materials Research, 2004, 19, 409-412.	2.6	2
38	Organosilicate polymer eâ€beam resists with high resolution, sensitivity and stability. Applied Organometallic Chemistry, 2013, 27, 644-651.	3.5	2
39	Direct formation of graphene on dielectric substrate: Controlling the location of graphene formation adopting carbon diffusion barrier. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	1.2	2
40	Characterization of Atomic Layer DepositedWNxCy Thin Film as a Diffusion Barrier for CopperMetallization. Materials Research Society Symposia Proceedings, 2003, 766, 1091.	0.1	1
41	Interface-controlled thermal transport properties in nano-clustered phase change materials. Journal of Applied Physics, 2012, 111, 073528.	2.5	1
42	Metal-Induced Nickel Silicide Nanowire Growth Mechanism in the Solid State Reaction. Materials Research Society Symposia Proceedings, 2006, 910, 7.	0.1	0
43	A Structural and Compositional Analysis of a TiOx Diffusion Barrier for Indium Tin Oxide/Si Contacts. Metals and Materials International, 2008, 14, 481-485.	3.4	O
44	Fabrication and verification of DNA functionalized nanopore with gold layer embedded structure for bio-molecular sensing. , $2011,\ldots$		0
45	Direct formation of graphene-metal hybrid on dielectric surfaces by metal-induced crystallization. , 2011, , .		O