Hyun-Mi Kim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Sheet Resistance Analysis of Interface-Engineered Multilayer Graphene: Mobility Versus Sheet Carrier Concentration. ACS Applied Materials & amp; Interfaces, 2020, 12, 30932-30940.	8.0	18
3	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
4	An electrophoretic DNA extraction device using a nanofilter for molecular diagnosis of pathogens. Nanoscale, 2020, 12, 5048-5054.	5.6	11
5	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
6	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
7	Selective Atomic Layer Deposition of Metals on Graphene for Transparent Conducting Electrode Application. ACS Applied Materials & amp; Interfaces, 2020, 12, 14331-14340.	8.0	26
8	Graphene-Based Etch Resist for Semiconductor Device Fabrication. ACS Applied Nano Materials, 2020, 3, 4635-4641.	5.0	4
9	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
10	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
11	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
12	Highly Stable and Effective Doping of Graphene by Selective Atomic Layer Deposition of Ruthenium. ACS Applied Materials & Interfaces, 2017, 9, 701-709.	8.0	29
13	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
14	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
15	Synchronized Optical and Electronic Detection of Biomolecules Using a Low Noise Nanopore Platform. ACS Nano, 2015, 9, 1740-1748.	14.6	62
16	Self-assembly and continuous growth of hexagonal graphene flakes on liquid Cu. Nanoscale, 2015, 7, 12820-12827.	5.6	31
17	Identifying the Location of a Single Protein along the DNA Strand Using Solid-State Nanopores. ACS Nano, 2015, 9, 5289-5298.	14.6	40
18	Leakage current in a Si-based nanopore structure and its influence on noise characteristics. Microfluidics and Nanofluidics, 2014, 16, 123-130.	2.2	9

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#	Article	IF	CITATIONS
19	A Low-Noise Solid-State Nanopore Platform Based on a Highly Insulating Substrate. Scientific Reports, 2014, 4, 7448.	3.3	103
20	Digital versus analog resistive switching depending on the thickness of nickel oxide nanoparticle assembly. RSC Advances, 2013, 3, 20978.	3.6	53
21	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
22	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
23	Organosilicate polymer eâ€beam resists with high resolution, sensitivity and stability. Applied Organometallic Chemistry, 2013, 27, 644-651.	3.5	2
24	Investigation of analog memristive switching of iron oxide nanoparticle assembly between Pt electrodes. Journal of Applied Physics, 2013, 114, 224505.	2.5	24
25	Gas transport controlled synthesis of graphene by employing a micro-meter scale gap jig. RSC Advances, 2013, 3, 26376.	3.6	4
26	Interface-controlled thermal transport properties in nano-clustered phase change materials. Journal of Applied Physics, 2012, 111, 073528.	2.5	1
27	Electrical Properties of Silicon Nanowire Fabricated by Patterning and Oxidation Process. IEEE Nanotechnology Magazine, 2012, 11, 565-569.	2.0	6
28	Fabrication and verification of DNA functionalized nanopore with gold layer embedded structure for bio-molecular sensing. , 2011, , .		0
29	Direct formation of graphene-metal hybrid on dielectric surfaces by metal-induced crystallization. , 2011, , .		0
30	Structural and Electrical Properties of Atomic Layer Deposited Alâ€Đoped ZnO Films. Advanced Functional Materials, 2011, 21, 448-455.	14.9	233
31	Highâ€Performance Micro olid Oxide Fuel Cells Fabricated on Nanoporous Anodic Aluminum Oxide Templates. Advanced Functional Materials, 2011, 21, 1154-1159.	14.9	151
32	Theoretical and experimental study of nanopore drilling by a focused electron beam in transmission electron microscopy. Nanotechnology, 2011, 22, 275303.	2.6	29
33	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
34	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
35	Analysis of the electric field induced elemental separation of Ge2Sb2Te5 by transmission electron microscopy. Applied Physics Letters, 2009, 95, .	3.3	28
36	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

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37	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
38	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	0
39	Microstructure analysis of epitaxially grown self-assembled Ge islands on nanometer-scale patterned SiO2â^•Si substrates by high-resolution transmission electron microscopy. Journal of Applied Physics, 2007, 102, 104306.	2.5	8
40	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
41	Metal-Induced Nickel Silicide Nanowire Growth Mechanism in the Solid State Reaction. Materials Research Society Symposia Proceedings, 2006, 910, 7.	0.1	0
42	Solid-state growth of nickel silicide nanowire by the metal-induced growth method. Journal of Materials Research, 2006, 21, 2936-2940.	2.6	13
43	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
44	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
45	Characterization of Atomic Layer DepositedWNxCy Thin Film as a Diffusion Barrier for CopperMetallization. Materials Research Society Symposia Proceedings, 2003, 766, 1091.	0.1	1