

Sungwook Chung

List of Publications by Year in descending order

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43
papers

3,513
citations

393982

19
h-index

301761

39
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43
all docs

43
docs citations

43
times ranked

4283
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Patterning of Modified Oligonucleotides on Metals and Insulators by Dip-Pen Nanolithography. <i>Science</i> , 2002, 296, 1836-1838.	6.0	727
2	Self-Assembly of Mesoscopic Metal-Polymer Amphiphiles. <i>Science</i> , 2004, 303, 348-351.	6.0	661
3	Silicon nanowire devices. <i>Applied Physics Letters</i> , 2000, 76, 2068-2070.	1.5	353
4	Silicon Nanowires: Preparation, Device Fabrication, and Transport Properties. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11864-11870.	1.2	224
5	Spontaneous patterning of quantum dots at the air-water interface. <i>Physical Review E</i> , 1999, 59, R6255-R6258.	0.8	171
6	Fabrication of Sub-50-nm Solid-State Nanostructures on the Basis of Dip-Pen Nanolithography. <i>Nano Letters</i> , 2003, 3, 43-45.	4.5	171
7	Self-catalyzed growth of S layers via an amorphous-to-crystalline transition limited by folding kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16536-16541.	3.3	160
8	Top-Down Meets Bottom-Up: Dip-Pen Nanolithography and DNA-Directed Assembly of Nanoscale Electrical Circuits. <i>Small</i> , 2005, 1, 64-69.	5.2	155
9	Hybrid Organic-Inorganic, Rod-Shaped Nanoresistors and Diodes. <i>Journal of the American Chemical Society</i> , 2004, 126, 11772-11773.	6.6	136
10	Parallel dip-pen nanolithography with arrays of individually addressable cantilevers. <i>Applied Physics Letters</i> , 2004, 84, 789-791.	1.5	117
11	Fabrication and Alignment of Wires in Two Dimensions. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6685-6687.	1.2	106
12	Direct observation of kinetic traps associated with structural transformations leading to multiple pathways of S-layer assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12968-12973.	3.3	77
13	A systematic study of hexavalent chromium adsorption and removal from aqueous environments using chemically functionalized amorphous and mesoporous silica nanoparticles. <i>Scientific Reports</i> , 2020, 10, 5558.	1.6	69
14	Design, Fabrication, and Characterization of Thermally Actuated Probe Arrays for Dip Pen Nanolithography. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 594-602.	1.7	49
15	Physical Controls on Directed Virus Assembly at Nanoscale Chemical Templates. <i>Journal of the American Chemical Society</i> , 2006, 128, 10801-10807.	6.6	47
16	Synthesis and electrochemical analysis of electrode prepared from zeolitic imidazolate framework (ZIF)-67/graphene composite for lithium sulfur cells. <i>Electrochimica Acta</i> , 2018, 259, 1021-1029.	2.6	44
17	Transport study of a single bismuth nanowire fabricated by the silver and silicon nanowire shadow masks. <i>Applied Physics Letters</i> , 2006, 89, 141503.	1.5	36
18	In Situ Atomic Force Microscopy as a Tool for Investigating Interactions and Assembly Dynamics in Biomolecular and Biomineral Systems. <i>Advanced Functional Materials</i> , 2013, 23, 2525-2538.	7.8	33

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19	Temperature-dependence of ink transport during thermal dip-pen nanolithography. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	25
20	Preparation and Capacitance of Ni Metal Organic Framework/Reduced Graphene Oxide Composites for Supercapacitors as Nanoarchitectonics. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2750-2754.	0.9	19
21	Scanning Probe-based Fabrication of 3D Nanostructures via Affinity Templates, Functional RNA, and Meniscus-mediated Surface Remodeling. <i>Scanning</i> , 2008, 30, 159-171.	0.7	15
22	Cooperative Reorganization of Mineral and Template during Directed Nucleation of Calcium Carbonate. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11076-11085.	1.5	15
23	Multilayered nanofibers from stacks of single-molecular thick nanosheets of hexakis(alkoxy)triphenylenes. <i>Chemical Communications</i> , 2010, 46, 8579.	2.2	14
24	Solvothermal synthesis and characterization of highly monodisperse organically functionalized vanadium oxide nanocrystals for thermochromic applications. <i>Materials Research Bulletin</i> , 2018, 101, 67-72.	2.7	12
25	pH-responsive phototherapeutic poly(acrylic acid)-calcium phosphate passivated TiO ₂ nanoparticle-based drug delivery system for cancer treatment applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 112, 258-270.	2.9	12
26	Hydrothermal synthesis of novel two-dimensional β -quartz nanoplates and their applications in energy-saving, high-efficiency, microalgal biorefineries. <i>Chemical Engineering Journal</i> , 2021, 413, 127467.	6.6	11
27	Effect of polydopamine-modified reduced graphene oxides on the catalytic activity of Pt nanoparticles catalysts for fuel cell electrodes. <i>Carbon Letters</i> , 2019, 29, 47-55.	3.3	10
28	Shape change in crystallization of biological macromolecules. <i>MRS Bulletin</i> , 2016, 41, 375-380.	1.7	9
29	Spontaneous and applied potential driven indium recovery on carbon electrode and crystallization using a bioelectrochemical system. <i>Bioresource Technology</i> , 2018, 258, 203-207.	4.8	7
30	The Dynamics and Energetics of Matrix Assembly and Mineralization. <i>Calcified Tissue International</i> , 2013, 93, 316-328.	1.5	6
31	Molecular Features of Hydration Layers: Insights from Simulation, Microscopy, and Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8967-8977.	1.5	4
32	The Formation of Pd Nanocrystals from Pd ₂ (dba) ₃ Microcrystals. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 280-286.	1.2	3
33	Solvo-hydrothermal synthesis of calcium phosphate nanostructures from calcium inositol hexakisphosphate precursor in water-ethanol mixed solutions. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 891-897.	1.2	3
34	Room-Temperature Cell Disruption and Astaxanthin Recovery from <i>Haematococcus lacustris</i> Cysts Using Ultrathin β -Quartz Nanoplates and Ionic Liquids. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2210.	1.3	3
35	Computational screening of potential non-immunoglobulin scaffolds using overlapped conserved residues (OCR)-based fingerprints. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 717-724.	1.2	2
36	Growth of Au and ZnS nanostructures via engineered peptide and M13 bacteriophage templates. <i>Soft Matter</i> , 2018, 14, 2996-3002.	1.2	2

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37	Effects of the Wettability of a Probing Tip on the Hydration Layer Imaged in Atomic Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 11197-11205.	1.5	2
38	Preparation and Electroactivity of Pt Catalysts on Unzipped Multi-Walled Carbon Nanotube and Graphene Oxide. Journal of Nanoscience and Nanotechnology, 2020, 20, 4998-5001.	0.9	2
39	Dynamics of In Vitro Bacterial S-Layer Crystallization. Biophysical Journal, 2010, 98, 60a.	0.2	1
40	S-Layer Self-Assembly on Supported Lipid-Bilayers: The Importance of Amorphous Precursors and Folding Transitions. Biophysical Journal, 2010, 98, 10a.	0.2	0
41	Molecular Dynamics Study on the Wetting Transition of a Hierarchical Groove. Bulletin of the Korean Chemical Society, 2018, 39, 279-280.	1.0	0
42	Colloidal metal oxides in energy technologies. , 2020, , 183-201.		0
43	Hydrothermal synthesis and characterization of quartz nanocrystals " Implications from a simple kinetic growth model. Korean Journal of Chemical Engineering, 2022, 39, 440-450.	1.2	0