

Sungwook Chung

List of Publications by Year in descending order

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papers

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citations

393982

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301761

39
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43
all docs

43
docs citations

43
times ranked

4283
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Room-Temperature Cell Disruption and Astaxanthin Recovery from Haematococcus lacustris Cysts Using Ultrathin \pm -Quartz Nanoplates and Ionic Liquids. Applied Sciences (Switzerland), 2022, 12, 2210.	1.3	3
3	Molecular Features of Hydration Layers: Insights from Simulation, Microscopy, and Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 8967-8977.	1.5	4
4	pH-responsive phototherapeutic poly(acrylic acid)-calcium phosphate passivated TiO ₂ nanoparticle-based drug delivery system for cancer treatment applications. Journal of Industrial and Engineering Chemistry, 2022, 112, 258-270.	2.9	12
5	Hydrothermal synthesis of novel two-dimensional \pm -quartz nanoplates and their applications in energy-saving, high-efficiency, microalgal biorefineries. Chemical Engineering Journal, 2021, 413, 127467.	6.6	11
6	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
7	Colloidal metal oxides in energy technologies. , 2020, , 183-201.		0
8	Preparation and Capacitance of Ni Metal Organic Framework/Reduced Graphene Oxide Composites for Supercapacitors as Nanoarchitectonics. Journal of Nanoscience and Nanotechnology, 2020, 20, 2750-2754.	0.9	19
9	Solvo-hydrothermal synthesis of calcium phosphate nanostructures from calcium inositol hexakisphosphate precursor in water-ethanol mixed solutions. Korean Journal of Chemical Engineering, 2020, 37, 891-897.	1.2	3
10	A systematic study of hexavalent chromium adsorption and removal from aqueous environments using chemically functionalized amorphous and mesoporous silica nanoparticles. Scientific Reports, 2020, 10, 5558.	1.6	69
11	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
12	Effect of polydopamine-modified reduced graphene oxides on the catalytic activity of Pt nanoparticles catalysts for fuel cell electrodes. Carbon Letters, 2019, 29, 47-55.	3.3	10
13	Spontaneous and applied potential driven indium recovery on carbon electrode and crystallization using a bioelectrochemical system. Bioresource Technology, 2018, 258, 203-207.	4.8	7
14	Computational screening of potential non-immunoglobulin scaffolds using overlapped conserved residues (OCR)-based fingerprints. Korean Journal of Chemical Engineering, 2018, 35, 717-724.	1.2	2
15	Growth of Au and ZnS nanostructures via engineered peptide and M13 bacteriophage templates. Soft Matter, 2018, 14, 2996-3002.	1.2	2
16	Molecular Dynamics Study on the Wetting Transition of a Hierarchical Groove. Bulletin of the Korean Chemical Society, 2018, 39, 279-280.	1.0	0
17	Solvothermal synthesis and characterization of highly monodisperse organically functionalized vanadium oxide nanocrystals for thermochromic applications. Materials Research Bulletin, 2018, 101, 67-72.	2.7	12
18	Synthesis and electrochemical analysis of electrode prepared from zeolitic imidazolate framework (ZIF)-67/graphene composite for lithium sulfur cells. Electrochimica Acta, 2018, 259, 1021-1029.	2.6	44

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19	Shape change in crystallization of biological macromolecules. MRS Bulletin, 2016, 41, 375-380.	1.7	9
20	The Dynamics and Energetics of Matrix Assembly and Mineralization. Calcified Tissue International, 2013, 93, 316-328.	1.5	6
21	Cooperative Reorganization of Mineral and Template during Directed Nucleation of Calcium Carbonate. Journal of Physical Chemistry C, 2013, 117, 11076-11085.	1.5	15
22	In Situ Atomic Force Microscopy as a Tool for Investigating Interactions and Assembly Dynamics in Biomolecular and Biomineral Systems. Advanced Functional Materials, 2013, 23, 2525-2538.	7.8	33
23	The Formation of Pd Nanocrystals from Pd ₂ (dba) ₃ Microcrystals. Particle and Particle Systems Characterization, 2013, 30, 280-286.	1.2	3
24	Direct observation of kinetic traps associated with structural transformations leading to multiple pathways of S-layer assembly. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12968-12973.	3.3	77
25	Temperature-dependence of ink transport during thermal dip-pen nanolithography. Applied Physics Letters, 2011, 99, .	1.5	25
26	Self-catalyzed growth of S layers via an amorphous-to-crystalline transition limited by folding kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16536-16541.	3.3	160
27	S-Layer Self-Assembly on Supported Lipid-Bilayers: The Importance of Amorphous Precursors and Folding Transitions. Biophysical Journal, 2010, 98, 10a.	0.2	0
28	Dynamics of In Vitro Bacterial S-Layer Crystallization. Biophysical Journal, 2010, 98, 60a.	0.2	1
29	Multilayered nanofibers from stacks of single-molecular thick nanosheets of hexakis(alkoxy)triphenylenes. Chemical Communications, 2010, 46, 8579.	2.2	14
30	Scanning Probe-based Fabrication of 3D Nanostructures via Affinity Templates, Functional RNA, and Meniscus-mediated Surface Remodeling. Scanning, 2008, 30, 159-171.	0.7	15
31	Physical Controls on Directed Virus Assembly at Nanoscale Chemical Templates. Journal of the American Chemical Society, 2006, 128, 10801-10807.	6.6	47
32	Transport study of a single bismuth nanowire fabricated by the silver and silicon nanowire shadow masks. Applied Physics Letters, 2006, 89, 141503.	1.5	36
33	Top-Down Meets Bottom-Up: Dip-Pen Nanolithography and DNA-Directed Assembly of Nanoscale Electrical Circuits. Small, 2005, 1, 64-69.	5.2	155
34	Parallel dip-pen nanolithography with arrays of individually addressable cantilevers. Applied Physics Letters, 2004, 84, 789-791.	1.5	117
35	Design, Fabrication, and Characterization of Thermally Actuated Probe Arrays for Dip Pen Nanolithography. Journal of Microelectromechanical Systems, 2004, 13, 594-602.	1.7	49
36	Self-Assembly of Mesoscopic Metal-Polymer Amphiphiles. Science, 2004, 303, 348-351.	6.0	661

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37	Hybrid Organic-Inorganic, Rod-Shaped Nanoresistors and Diodes. Journal of the American Chemical Society, 2004, 126, 11772-11773.	6.6	136
38	Fabrication of Sub-50-nm Solid-State Nanostructures on the Basis of Dip-Pen Nanolithography. Nano Letters, 2003, 3, 43-45.	4.5	171
39	Direct Patterning of Modified Oligonucleotides on Metals and Insulators by Dip-Pen Nanolithography. Science, 2002, 296, 1836-1838.	6.0	727
40	Silicon nanowire devices. Applied Physics Letters, 2000, 76, 2068-2070.	1.5	353
41	Silicon Nanowires: Preparation, Device Fabrication, and Transport Properties. Journal of Physical Chemistry B, 2000, 104, 11864-11870.	1.2	224
42	Spontaneous patterning of quantum dots at the air-water interface. Physical Review E, 1999, 59, R6255-R6258.	0.8	171
43	Fabrication and Alignment of Wires in Two Dimensions. Journal of Physical Chemistry B, 1998, 102, 6685-6687.	1.2	106