

Kangkyun Baek

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,883
citations

279798

23
h-index

276875

41
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48
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48
docs citations

48
times ranked

2829
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically Smooth Graphene-Based Hybrid Template for the Epitaxial Growth of Organic Semiconductor Crystals. <i>Advanced Functional Materials</i> , 2021, 31, 2008813.	14.9	13
2	Permselective Two-Dimensional Polymer Film-Based Chemical Sensors. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 869-871.	3.2	7
3	Lipid-Oriented Live-Cell Distinction of B and T Lymphocytes. <i>Journal of the American Chemical Society</i> , 2021, 143, 5836-5844.	13.7	19
4	Use of rigid cucurbit[6]uril mediating selective water transport as a potential remedy to improve the permselectivity and durability of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2021, 623, 119017.	8.2	18
5	Highly Functional Materials Based on Nano-Lignin, Lignin, and Lignin/Silica Hybrid Capped Silver Nanoparticles with Antibacterial Activities. <i>Biomacromolecules</i> , 2021, 22, 5327-5338.	5.4	25
6	Hierarchical Self-Assembly of Poly-pseudorotaxanes into Artificial Microtubules. <i>Angewandte Chemie</i> , 2020, 132, 3488-3492.	2.0	3
7	Hierarchical Self-Assembly of Poly-pseudorotaxanes into Artificial Microtubules. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3460-3464.	13.8	16
8	Audible sound-controlled spatiotemporal patterns in out-of-equilibrium systems. <i>Nature Chemistry</i> , 2020, 12, 808-813.	13.6	36
9	High-performance transparent conductive pyrolyzed carbon (Py-C) ultrathin film. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9243-9251.	5.5	6
10	Solution-Processable, Crystalline π -Conjugated Two-Dimensional Polymers with High Charge Carrier Mobility. <i>CheM</i> , 2020, 6, 2035-2045.	11.7	44
11	Large-area grain-boundary-free copper films for plasmonics. <i>Applied Surface Science</i> , 2020, 521, 146377.	6.1	12
12	Fuel-Driven Transient Crystallization of a Cucurbit[8]uril-Based Host-Guest Complex. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16850-16853.	13.8	45
13	Facile One-Pot Synthesis of Bimetallic Co/Mn-MOFs@Rice Husks, and its Carbonization for Supercapacitor Electrodes. <i>Scientific Reports</i> , 2019, 9, 8984.	3.3	16
14	Indirect Interactions between Raman Probes Encapsulated within Cucurbit[7]urils and Gold Nanorods to Enhance Long-term Stability and Signal. <i>Analytical Sciences</i> , 2019, 35, 1009-1013.	1.6	4
15	Chapter 15. Cucurbit[6]uril-based Polymer Nanocapsules and Thin Films. <i>Monographs in Supramolecular Chemistry</i> , 2019, , 426-441.	0.2	0
16	Smart SERS Hot Spots: Single Molecules Can Be Positioned in a Plasmonic Nanojunction Using Host-Guest Chemistry. <i>Journal of the American Chemical Society</i> , 2018, 140, 4705-4711.	13.7	102
17	Mono-allyloxyated Cucurbit[7]uril Acts as an Unconventional Amphiphile To Form Light-Responsive Vesicles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3132-3136.	13.8	38
18	Mechanistic Insight into the Conversion Chemistry between Au-CuO Heterostructured Nanocrystals Confined inside SiO ₂ Nanospheres. <i>Chemistry of Materials</i> , 2017, 29, 1788-1795.	6.7	19

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19	Reversible photoreduction of Cu(II)-coumarin metal-organic polyhedra. <i>Chemical Communications</i> , 2017, 53, 9250-9253.	4.1	16
20	Permselective 2D-polymer-based membrane tuneable by host-guest chemistry. <i>Chemical Communications</i> , 2016, 52, 9676-9678.	4.1	9
21	Synthesis of [Mg ₂ (DOBDC)(DMF) ₂]/polystyrene composite and its carbon dioxide adsorption. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 161-166.	4.4	13
22	Value-added Synthesis of Graphene: Recycling Industrial Carbon Waste into Electrodes for High-Performance Electronic Devices. <i>Scientific Reports</i> , 2015, 5, 16710.	3.3	36
23	A Multifunctional Subphthalocyanine Nanosphere for Targeting, Labeling, and Killing of Antibiotic-Resistant Bacteria. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15152-15155.	13.8	75
24	A simple modular aptasensor platform utilizing cucurbit[7]uril and a ferrocene derivative as an ultrastable supramolecular linker. <i>Chemical Communications</i> , 2015, 51, 3098-3101.	4.1	27
25	Reversible Morphological Transformation between Polymer Nanocapsules and Thin Films through Dynamic Covalent Self-Assembly. <i>Angewandte Chemie</i> , 2015, 127, 2731-2735.	2.0	11
26	Reversible Morphological Transformation between Polymer Nanocapsules and Thin Films through Dynamic Covalent Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2693-2697.	13.8	36
27	Self-Assembly of Nanostructured Materials through Irreversible Covalent Bond Formation. <i>Accounts of Chemical Research</i> , 2015, 48, 2221-2229.	15.6	116
28	Highly Stable, Water-Dispersible Metal-Nanoparticle-Decorated Polymer Nanocapsules and Their Catalytic Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6414-6418.	13.8	74
29	Hollow nanotubular toroidal polymer microrings. <i>Nature Chemistry</i> , 2014, 6, 97-103.	13.6	43
30	Free-Standing, Single-Monomer-Thick Two-Dimensional Polymers through Covalent Self-Assembly in Solution. <i>Journal of the American Chemical Society</i> , 2013, 135, 6523-6528.	13.7	154
31	Self-assembled, covalently linked, hollow phthalocyanine nanospheres. <i>Chemical Science</i> , 2013, 4, 339-344.	7.4	43
32	Unconventional U-shaped conformation of a bolaamphiphile embedded in a synthetic host. <i>Chemical Communications</i> , 2010, 46, 4091.	4.1	50
33	Cucurbituril-based nanoparticles: a new efficient vehicle for targeted intracellular delivery of hydrophobic drugs. <i>Chemical Communications</i> , 2009, , 71-73.	4.1	114
34	Synthetic Ion Channel Based on Metal-Organic Polyhedra. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5755-5757.	13.8	206
35	Inside Cover: Synthetic Ion Channel Based on Metal-Organic Polyhedra (<i>Angew. Chem. Int. Ed.</i> 31/2008). <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5676-5676.	13.8	0
36	Innentitelbild: Synthetic Ion Channel Based on Metal-Organic Polyhedra (<i>Angew. Chem.</i> 31/2008). <i>Angewandte Chemie</i> , 2008, 120, 5760-5760.	2.0	0

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37	Direct force measurement between cucurbit[6]uril and spermine using atomic force microscopy. <i>Tetrahedron</i> , 2008, 64, 8389-8393.	1.9	22
38	Noncovalent Immobilization of Proteins on a Solid Surface by Cucurbit[7]uril-Ferrocenemethylammonium Pair, a Potential Replacement of Biotin-Avidin Pair. <i>Journal of the American Chemical Society</i> , 2007, 129, 4170-4171.	13.7	142
39	Direct Synthesis of Polymer Nanocapsules with a Noncovalently Tailorable Surface. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3471-3474.	13.8	119
40	Cover Picture: Direct Synthesis of Polymer Nanocapsules with a Noncovalently Tailorable Surface (<i>Angew. Chem. Int. Ed.</i> 19/2007). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3381-3381.	13.8	0
41	Anion-directed self-organization of thermotropic liquid crystalline materials containing a guanidinium moiety. <i>Chemical Communications</i> , 2005, , 5509.	4.1	31