

Sung-Soo Kim

List of Publications by Year in descending order

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36
papers

706
citations

623734

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1235
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#	ARTICLE	IF	CITATIONS
1	Compatibilization of Isotactic Polypropylene (iPP) and High-Density Polyethylene (HDPE) with iPP-PE Multiblock Copolymers. <i>Macromolecules</i> , 2018, 51, 8585-8596.	4.8	106
2	Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2014, 24, 2764-2771.	14.9	61
3	Evolution of structural inhomogeneity in polyacrylonitrile fibers by oxidative stabilization. <i>Carbon</i> , 2020, 165, 225-237.	10.3	55
4	Upcycling Plastic Waste into High Value-Added Carbonaceous Materials. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100467.	3.9	46
5	Efficient upcycling of polypropylene-based waste disposable masks into hard carbons for anodes in sodium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 268-277.	5.8	44
6	Planar and van der Waals heterostructures for vertical tunnelling single electron transistors. <i>Nature Communications</i> , 2019, 10, 230.	12.8	43
7	Graphene Oxide Nanoribbon Hydrogel: Viscoelastic Behavior and Use as a Molecular Separation Membrane. <i>ACS Nano</i> , 2020, 14, 12195-12202.	14.6	41
8	Melt-Blown Cross-Linked Fibers from Thermally Reversible Diels-Alder Polymer Networks. <i>ACS Macro Letters</i> , 2018, 7, 1339-1345.	4.8	37
9	Branched and crosslinked supracolloidal chains with diblock copolymer micelles having three well-defined patches. <i>Chemical Communications</i> , 2016, 52, 9430-9433.	4.1	26
10	Centimeter-sized epitaxial h-BN films. <i>NPG Asia Materials</i> , 2016, 8, e330-e330.	7.9	26
11	Large area tunable arrays of graphene nanodots fabricated using diblock copolymer micelles. <i>Nanotechnology</i> , 2012, 23, 125301.	2.6	23
12	Thermomechanical and Conductive Properties of Thiol-Ene Poly(ionic liquid) Networks Containing Backbone and Pendant Imidazolium Groups. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16526-16536.	3.7	23
13	Soybean Oil-Based Thermoset Films and Fibers with High Biobased Carbon Content via Thiol-Ene Photopolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8364-8373.	6.7	20
14	Degradable Thermoset Fibers from Carbohydrate-Derived Diols via Thiol-Ene Photopolymerization. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2933-2942.	4.4	17
15	ZnO nanorods and nanowalls directly synthesized on flexible substrates with block copolymer templates. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1507-1512.	5.5	13
16	Surface coverage and size effects on electrochemical oxidation of uniform gold nanoparticles. <i>Electrochemistry Communications</i> , 2015, 53, 11-14.	4.7	13
17	Strain-Assisted Wafer-Scale Nanoperforation of Single-Layer Graphene by Arrayed Pt Nanoparticles. <i>Chemistry of Materials</i> , 2015, 27, 7003-7010.	6.7	13
18	Dichroic Plasmon Superstructures of Au Nanorods over Macroscopic Areas via Directed Self-Assemblies of Diblock Copolymers. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901257.	3.7	13

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19	Carbon Fibers Derived from Oleic Acid-Functionalized Lignin via Thermostabilization Accelerated by UV Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5204-5216.	6.7	10
20	Transferrable superhydrophobic TiO ₂ nanorods on reduced graphene oxide films using block copolymer templates. <i>Nanotechnology</i> , 2015, 26, 165302.	2.6	9
21	Enhancing physical properties of mesophase pitch-based graphite fibers by modulating initial stabilization temperature. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 94, 397-407.	5.8	9
22	Three-dimensional observation of TiO ₂ nanostructures by electron tomography. <i>Micron</i> , 2013, 46, 35-42.	2.2	8
23	Controlled growth of inorganic nanorod arrays using graphene nanodot seed layers. <i>Nanotechnology</i> , 2014, 25, 135609.	2.6	7
24	Template-assisted self-assembly of diblock copolymer micelles for non-hexagonal arrays of Au nanoparticles. <i>RSC Advances</i> , 2016, 6, 41331-41339.	3.6	7
25	Graphene Nanoribbon/Carbon Nanotube Hybrid Hydrogel: Rheology and Membrane for Ultrafast Molecular Diafiltration. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11779-11788.	8.0	7
26	Diamine vapor treatment of viscoelastic graphene oxide liquid crystal for gas barrier coating. <i>Scientific Reports</i> , 2021, 11, 9518.	3.3	6
27	Structural Basis for the Different Mechanical Behaviors of Two Chemically Analogous, Carbohydrate-Derived Thermosets. <i>ACS Macro Letters</i> , 2021, 10, 609-615.	4.8	5
28	Catalytic tailoring of large-area reduced graphene oxide by tunable arrays of Pt nanostructures synthesized from self-assembling diblock copolymers. <i>Carbon</i> , 2016, 107, 124-131.	10.3	4
29	Fabrication of size-controlled nanoring arrays by selective incorporation of ionic liquids in diblock copolymer micellar cores. <i>Nanotechnology</i> , 2017, 28, 225303.	2.6	4
30	Nanoscale arrangement of diblock copolymer micelles with Au nanorods. <i>Nanotechnology</i> , 2014, 25, 455602.	2.6	2
31	Hydrothermal growth of ZnO microstructures on Ar plasma treated graphite. <i>Current Applied Physics</i> , 2014, 14, 269-274.	2.4	2
32	Unusual Thermal Properties of Certain Poly(3,5-disubstituted styrene)s. <i>Macromolecules</i> , 2020, 53, 5504-5511.	4.8	2
33	All-Lignin-Based Thermoset Foams via Azide-Alkyne Cycloaddition and Their Fire Resistance after Oxidation. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2712-2723.	4.4	2
34	Graphene: Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction (<i>Adv. Funct. Mater.</i> 19/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2738-2738.	14.9	1
35	Fabrication of nanostructured titanium dioxides by nanotemplates of block copolymers. , 2011, , .		0
36	High resolution TEM and 3D imaging of hybrid polymer solar cell structures. , 2011, , .		0