

Hyun-Sig Kil

List of Publications by Year in descending order

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25
papers

925
citations

471061

17
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676716

22
g-index

26
all docs

26
docs citations

26
times ranked

950
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of High Grade Activated Carbons From Waste Biomass. , 2020, , 584-595.		6
2	Thermophysical and Adsorption Characteristics of Waste Biomass-Derived Activated Carbons. , 2020, , 617-628.		3
3	A benchmark for CO ₂ uptake onto newly synthesized biomass-derived activated carbons. Applied Energy, 2020, 264, 114720.	5.1	53
4	Toward development of activated carbons with enhanced effective adsorption amount by control of activation process. AIP Conference Proceedings, 2019, , .	0.3	1
5	High flame retardancy of oxidized polyacrylonitrile fibers prepared by effective plasma-assisted thermal stabilization and electron-beam irradiation. Composites Part B: Engineering, 2019, 178, 107458.	5.9	25
6	Fabrication of low-cost carbon fibers using economical precursors and advanced processing technologies. Carbon, 2019, 142, 610-649.	5.4	175
7	Rapid stabilization of polyacrylonitrile fibers achieved by plasma-assisted thermal treatment on electron-beam irradiated fibers. Journal of Industrial and Engineering Chemistry, 2019, 69, 449-454.	2.9	27
8	Effects of stabilization variables on mechanical properties of isotropic pitch based carbon fibers. Journal of Industrial and Engineering Chemistry, 2018, 58, 349-356.	2.9	28
9	Structural evolution of pitch fibers during low temperature carbonization. Journal of Analytical and Applied Pyrolysis, 2018, 136, 153-159.	2.6	27
10	Adsorption of Difluoromethane (HFC-32) onto phenol resin based adsorbent: Theory and experiments. International Journal of Heat and Mass Transfer, 2018, 127, 348-356.	2.5	22
11	Ethanol adsorption uptake and kinetics onto waste palm trunk and mangrove based activated carbons. Applied Thermal Engineering, 2017, 122, 389-397.	3.0	44
12	Highly graphitized carbon from non-graphitizable raw material and its formation mechanism based on domain theory. Carbon, 2017, 121, 301-308.	5.4	68
13	Study on biomass derived activated carbons for adsorptive heat pump application. International Journal of Heat and Mass Transfer, 2017, 110, 7-19.	2.5	85
14	Structural elucidation of physical and chemical activation mechanisms based on the microdomain structure model. Carbon, 2017, 114, 98-105.	5.4	97
15	Improvement of Electric Conductivity of Non-graphitizable Carbon Material via Breaking-down and Merging of the Microdomains. Evergreen, 2017, 4, 16-20.	0.3	0
16	Influence of Pore Size and Surface Functionality of Activated Carbons on Adsorption Behaviors of Indole and Amylase. Evergreen, 2016, 3, 17-24.	0.3	2
17	Glycothermal Synthesis and Photocatalytic Properties of Highly Crystallized Anatase TiO ₂ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2015, 15, 6193-6200.	0.9	15
18	Adsorption of ethanol onto phenol resin based adsorbents for developing next generation cooling systems. International Journal of Heat and Mass Transfer, 2015, 81, 171-178.	2.5	78

#	ARTICLE	IF	CITATIONS
19	Influence of surface functionalities on ethanol adsorption characteristics in activated carbons for adsorption heat pumps. <i>Applied Thermal Engineering</i> , 2014, 72, 160-165.	3.0	21
20	Adsorption characteristics of ethanol onto functional activated carbons with controlled oxygen content. <i>Applied Thermal Engineering</i> , 2014, 72, 211-218.	3.0	64
21	Preparation of Novel Isotropic Pitch with High Softening Point and Solvent Solubility for Pitch-based Electrospun Carbon Nanofiber. <i>Current Organic Chemistry</i> , 2013, 17, 1463-1468.	0.9	37
22	Glycothermal synthesis of nanocrystalline ZrO ₂ powders at low temperature without mineralizers. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 52-57.	0.5	5
23	Glycothermal synthesis of 3 mol% yttria stabilized tetragonal ZrO ₂ nano powders at low temperature without mineralizers. <i>Powder Technology</i> , 2012, 221, 228-235.	2.1	19
24	Glycothermal process for barium magnesium tantalate nanopowders synthesis. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2319-2329.	2.8	2
25	Preparation and luminescence properties of SrTiO ₃ :Pr ³⁺ ,Al ³⁺ phosphor from the glycolate method. <i>Journal of Luminescence</i> , 2011, 131, 894-899.	1.5	21