

# Hee Taik Kim

## List of Publications by Year in descending order

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73  
papers

2,702  
citations

186265  
28  
h-index

197818  
49  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3674  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile and fast synthesis of a reduced graphene oxide/carbon nanotube/iron/silver hybrid and its enhanced performance in catalytic reduction of 4-nitrophenol. <i>Solid State Sciences</i> , 2020, 100, 106107.	3.2	23
2	Improvement of pulverization efficiency for micro-sized particles grinding by uncooled high-temperature air jet mill using a computational simulation. <i>Chemical Engineering Science</i> , 2019, 207, 1140-1147.	3.8	7
3	Onsite paper-type colorimetric detector with enhanced sensitivity for alkali ion via polydiacetylene-nanoporous rice husk silica composites. <i>Materials Science and Engineering C</i> , 2019, 99, 900-904.	7.3	11
4	Facile, single-pot preparation of nanoporous SiO <sub>2</sub> particles (carrier) with AgNPs at core and crust for controlled disinfectant release. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 828-835.	5.2	6
5	Effect of Acidity Levels and Feed Rate on the Porosity of Aerogel Extracted from Rice Husk under Ambient Pressure. <i>Nanomaterials</i> , 2019, 9, 300.	4.1	13
6	Specific capacitance-pore texture relationship of biogas slurry mesoporous carbon/MnO <sub>2</sub> composite electrodes for supercapacitors. <i>Nano Structures Nano Objects</i> , 2019, 17, 21-33.	3.5	12
7	Electroconductive performance of polypyrrole/reduced graphene oxide/carbon nanotube composites synthesized via in situ oxidative polymerization. <i>Journal of Materials Science</i> , 2019, 54, 3156-3173.	3.7	22
8	Surfactant-free synthesis of high surface area silica nanoparticles derived from rice husks by employing the Taguchi approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 281-287.	5.8	42
9	Study of the electroconductive properties of conductive polymers-graphene/graphene oxide nanocomposites synthesized via in situ emulsion polymerization. <i>Polymer Composites</i> , 2018, 39, 2142-2150.	4.6	15
10	Electroconductive and catalytic performance of polypyrrole/montmorillonite/silver composites synthesized through in situ oxidative polymerization. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45986.	2.6	8
11	Sol-gel synthesis of less expensive mesoporous titania-tin dioxide systems: Investigation of the influence of tin dioxide on the phase structure, morphology and optical properties. <i>Materials Research Bulletin</i> , 2017, 88, 281-290.	5.2	2
12	HCl removal characteristics of calcium hydroxide at the dry-type sorbent reaction accelerator using municipal waste incinerator flue gas at a real site. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 747-756.	2.7	21
13	Carbon nanotube-based thermoplastic polyurethane-poly(methyl methacrylate) nanocomposites for pressure sensing applications. <i>Polymer Engineering and Science</i> , 2016, 56, 1031-1036.	3.1	11
14	Multi-walled carbon nanotube/polyethersulfone nanocomposites for enhanced electrical conductivity, dielectric properties and efficient electromagnetic interference shielding at low thickness. <i>Macromolecular Research</i> , 2016, 24, 1084-1090.	2.4	39
15	Investigation of the influence of vanadium, iron and nickel dopants on the morphology, and crystal structure and photocatalytic properties of titanium dioxide based nanopowders. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 179-189.	9.4	23
16	Inexpensive synthesis of a high-performance Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> -TiO <sub>2</sub> photocatalyst: Magnetic recovery and reuse. <i>Frontiers of Chemical Science and Engineering</i> , 2016, 10, 405-416.	4.4	22
17	Inexpensive sol-gel synthesis of multiwalled carbon nanotube-TiO <sub>2</sub> hybrids for high performance antibacterial materials. <i>Materials Science and Engineering C</i> , 2016, 68, 780-788.	7.3	52
18	Aminated polyethersulfone-silver nanoparticles (AgNPs-APES) composite membranes with controlled silver ion release for antibacterial and water treatment applications. <i>Materials Science and Engineering C</i> , 2016, 62, 732-745.	7.3	116

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19	Encapsulated Urea-Kaolinite Nanocomposite for Controlled Release Fertilizer Formulations. Journal of Chemistry, 2015, 2015, 1-17.	1.9	27
20	Sol-gel synthesis of photoactive kaolinite-titania: Effect of the preparation method and their photocatalytic properties. Applied Surface Science, 2015, 331, 98-107.	6.1	20
21	Electroconductive performance of polypyrrole/graphene nanocomposites synthesized through in situ emulsion polymerization. Journal of Applied Polymer Science, 2015, 132, .	2.6	16
22	Sol-gel synthesis of vanadium doped titania: Effect of the synthetic routes and investigation of their photocatalytic properties in the presence of natural sunlight. Applied Surface Science, 2015, 351, 1213-1223.	6.1	28
23	Sequential repetitive chemical reduction technique to study size-property relationships of graphene attached Ag nanoparticle. Solid State Sciences, 2015, 44, 1-9.	3.2	20
24	Sol-gel synthesis of mesoporous anatase-brookite and anatase-brookite-rutile TiO <sub>2</sub> nanoparticles and their photocatalytic properties. Journal of Colloid and Interface Science, 2015, 442, 1-7.	9.4	196
25	Meticulous Overview on the Controlled Release Fertilizers. Advances in Chemistry, 2014, 2014, 1-16.	1.1	117
26	Sol-gel synthesis of photoactive zirconia-titania from metal salts and investigation of their photocatalytic properties in the photodegradation of methylene blue. Powder Technology, 2014, 258, 99-109.	4.2	72
27	Enhancement of electroconductivity of polyaniline/graphene oxide nanocomposites through in situ emulsion polymerization. Journal of Materials Science, 2014, 49, 1328-1335.	3.7	71
28	Synthesis and characterization of bimodal silver nanoparticles by using semi-batch method. Journal of Industrial and Engineering Chemistry, 2014, 20, 1830-1833.	5.8	3
29	Effect of various structure directing agents on the physicochemical properties of the silica aerogels prepared at an ambient pressure. Applied Surface Science, 2013, 287, 84-90.	6.1	43
30	Effective water disinfection using silver nanoparticle containing silica beads. Applied Surface Science, 2013, 266, 280-287.	6.1	88
31	Sol-gel synthesis of sodium silicate and titanium oxychloride based TiO <sub>2</sub> -SiO <sub>2</sub> aerogels and their photocatalytic property under UV irradiation. Chemical Engineering Journal, 2013, 231, 502-511.	12.7	71
32	Biodiesel production by sulfated mesoporous titania-silica catalysts synthesized by the sol-gel process from less expensive precursors. Chemical Engineering Journal, 2013, 215-216, 600-607.	12.7	91
33	Enhancement of porosity of sodium silicate and titanium oxychloride based TiO <sub>2</sub> -SiO <sub>2</sub> systems synthesized by sol-gel process and their photocatalytic activity. Microporous and Mesoporous Materials, 2013, 179, 111-121.	4.4	32
34	Quantitative recovery of high purity nanoporous silica from waste products of the phosphate fertilizer industry. Journal of Industrial and Engineering Chemistry, 2013, 19, 63-67.	5.8	12
35	Influence of titania content on the mesostructure of titania-silica composites and their photocatalytic activity. Powder Technology, 2013, 233, 123-130.	4.2	30
36	Effect of the gelation on the properties of precipitated silica powder produced by acidizing sodium silicate solution at the pilot scale. Chemical Engineering Journal, 2012, 209, 531-536.	12.7	19

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37	Two-step rapid synthesis of mesoporous silica for green tire. Korean Journal of Chemical Engineering, 2012, 29, 1643-1646.	2.7	6
38	Characterization of Calcium-doped Silica Gel Prepared in an Aqueous Solution. Resources Processing, 2012, 59, 33-41.	0.4	6
39	Synthesis and characterization of micrometer-sized silica aerogel nanoporous beads. Materials Letters, 2012, 81, 37-40.	2.6	30
40	BET study of silver-doped silica based on an inexpensive method. Materials Letters, 2012, 80, 168-170.	2.6	6
41	Silver-doped silica powder with antibacterial properties. Powder Technology, 2012, 215-216, 219-222.	4.2	22
42	Two step synthesis of a mesoporous titania-silica composite from titanium oxychloride and sodium silicate. Powder Technology, 2012, 217, 489-496.	4.2	40
43	Preparation of amino-functionalized silica for copper removal from an aqueous solution. Journal of Industrial and Engineering Chemistry, 2012, 18, 83-87.	5.8	23
44	Synthesis of sodium silicate-based hydrophilic silica aerogel beads with superior properties: Effect of heat-treatment. Journal of Non-Crystalline Solids, 2011, 357, 2156-2162.	3.1	66
45	Preparation of amino functionalized silica micro beads by dry method for supporting silver nanoparticles with antibacterial properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 389, 118-126.	4.7	48
46	Facile route for preparation of silver nanoparticle-coated precipitated silica. Applied Surface Science, 2011, 257, 4250-4256.	6.1	31
47	Preparation of silver nanoparticle containing silica micro beads and investigation of their antibacterial activity. Applied Surface Science, 2011, 257, 6963-6970.	6.1	52
48	Synthesis of hydrophilic and hydrophobic xerogels with superior properties using sodium silicate. Microporous and Mesoporous Materials, 2011, 139, 138-147.	4.4	64
49	Preparation of hydrophobic mesoporous silica powder with a high specific surface area by surface modification of a wet-gel slurry and spray-drying. Powder Technology, 2010, 197, 288-294.	4.2	54
50	Influence of aging conditions on textural properties of water-glass-based silica aerogels prepared at ambient pressure. Korean Journal of Chemical Engineering, 2010, 27, 1301-1309.	2.7	31
51	Mesoporous titania-silica composite from sodium silicate and titanium oxychloride. Part I: grafting method. Journal of Materials Science, 2010, 45, 1255-1263.	3.7	18
52	Mesoporous titania-silica composite from sodium silicate and titanium oxychloride. Part II: one-pot co-condensation method. Journal of Materials Science, 2010, 45, 1264-1271.	3.7	12
53	Production of low-density sodium silicate-based hydrophobic silica aerogel beads by a novel fast gelation process and ambient pressure drying process. Solid State Sciences, 2010, 12, 911-918.	3.2	123
54	Influence of reaction conditions on the properties of sodium alumino silicate synthesized by simultaneous addition of precursors. Journal of Non-Crystalline Solids, 2010, 356, 1466-1469.	3.1	0

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55	Titania-silica composites with less aggregated particles. Powder Technology, 2009, 196, 286-291.	4.2	26
56	Optimization of parameters for the synthesis of zinc oxide nanoparticles by Taguchi robust design method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 311, 170-173.	4.7	110
57	A kinetic analysis of the thermal-oxidative decomposition of expandable polystyrene. Korean Journal of Chemical Engineering, 2006, 23, 761-766.	2.7	21
58	Comparison of the growth mechanism of TiO <sub>2</sub> -coated SiO <sub>2</sub> particles prepared by sol-gel process and water-in-oil type microemulsion method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 255, 131-137.	4.7	16
59	Experimental optimization of the formation of silver dendritic particles by electrochemical technique. Scripta Materialia, 2005, 53, 571-575.	5.2	9
60	Synthesis and Characterization of Mesoporous Silica Particles by Sol-Gel Method: Effect of Aging Time on Surface Area and Pore Size. Journal of Chemical Engineering of Japan, 2005, 38, 547-552.	0.6	7
61	Optimization of experimental conditions based on the Taguchi robust design for the formation of nano-sized silver particles by chemical reduction method. Chemical Engineering Journal, 2004, 104, 55-61.	12.7	147
62	Synthesis and growth mechanism of TiO <sub>2</sub> -coated SiO <sub>2</sub> fine particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 221, 163-173.	4.7	19
63	Synthesis and characterization of titania-coated silica fine particles by semi-batch process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 224, 119-126.	4.7	25
64	Optimal conditions for synthesis of TiO <sub>2</sub> nanoparticles in semi-batch reactor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 224, 1-9.	4.7	25
65	Comparison of particle size and standard deviation of TiO <sub>2</sub> particles prepared by batch, semi-batch and continuous reaction method. Journal of the European Ceramic Society, 2003, 23, 833-838.	5.7	6
66	Thermogravimetric Evaluation for Pyrolysis Kinetics of Styrene-Butadiene Rubber. Journal of Chemical Engineering of Japan, 2003, 36, 1016-1022.	0.6	26
67	Synthesis of titanium dioxide nanoparticles using a continuous reaction method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 207, 263-269.	4.7	30
68	Formation of Silica Nanoparticles by Hydrolysis of TEOS Using a Mixed Semi-Batch/Batch Method. Journal of Sol-Gel Science and Technology, 2002, 25, 183-189.	2.4	94
69	Kinetic analysis of thermal decomposition of polymer using a dynamic model. Korean Journal of Chemical Engineering, 2000, 17, 489-496.	2.7	29
70	Kinetics of nonisothermal thermal degradation of styrene-butadiene rubber. Korean Journal of Chemical Engineering, 1999, 16, 543-547.	2.7	31
71	CO <sub>2</sub> , N <sub>2</sub> gas sorption and permeation behavior of chitosan membrane. Korean Journal of Chemical Engineering, 1998, 15, 223-226.	2.7	34
72	Plasticization of chitosan membrane for pervaporation of aqueous ethanol solution. Korean Journal of Chemical Engineering, 1996, 13, 324-327.	2.7	7

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73	Growth mechanism of monodispersed TiO <sub>2</sub> fine particles by the hydrolysis of Ti(OC <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> . Korean Journal of Chemical Engineering, 1995, 12, 516-522.	2.7	7