

Hyung-Il Kim

List of Publications by Year in descending order

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80
papers

2,056
citations

186209

28
h-index

254106

43
g-index

83
all docs

83
docs citations

83
times ranked

2931
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and antibacterial properties of genipin-crosslinked chitosan/poly(ethylene Terephthalate) composite microcapsules. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 18, 392-398.	2.9	44
2	Electro-responsive transdermal drug delivery behavior of PVA/PAA/MWCNT nanofibers. <i>European Polymer Journal</i> , 2011, 47, 1893-1902.	2.6	118
3	Effect of oxyfluorination on electromagnetic interference shielding behavior of MWCNT/PVA/PAAc composite microcapsules. <i>European Polymer Journal</i> , 2010, 46, 900-909.	2.6	87
4	Preparation of pH-sensitive poly(vinyl alcohol-g-methacrylic acid) and poly(vinyl alcohol-g-acrylic acid) nanocomposites. <i>Polymer Science</i> , 2004, 91, 636-643.	1.3	82
5	Kenaf/polypropylene biocomposites: effects of electron beam irradiation and alkali treatment on kenaf natural fibers. <i>Composite Interfaces</i> , 2007, 14, 559-578.	1.3	80
6	Poly(vinyl alcohol)/poly(acrylic acid)/TiO ₂ /graphene oxide nanocomposite hydrogels for pH-sensitive photocatalytic degradation of organic pollutants. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 1097-1103.	1.7	78
7	Photocatalytic treatment of acidic waste water by electrospun composite nanofibers of pH-sensitive hydrogel and TiO ₂ . <i>Materials Letters</i> , 2010, 64, 2431-2434.	1.3	68
8	Synthesis of microcapsules with polystyrene/ZnO hybrid shell by Pickering emulsion polymerization. <i>Colloid and Polymer Science</i> , 2010, 288, 1393-1399.	1.0	67
9	Fluorination of electrospun hydrogel fibers for a controlled release drug delivery system. <i>Acta Biomaterialia</i> , 2010, 6, 102-109.	4.1	64
10	Effect of oxyfluorination on electromagnetic interference shielding of polypyrrole-coated multi-walled carbon nanotubes. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 392-398.	2.9	58
11	Improvement of ammonia sensing properties of polypyrrole by nanocomposite with graphitic materials. <i>Colloid and Polymer Science</i> , 2013, 291, 1095-1103.	1.0	55
12	Pretreatment effects of seaweed on the thermal and mechanical properties of seaweed/polypropylene biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 47, 83-90.	3.8	45
13	Effect of surface modification of graphene oxide on photochemical stability of poly(vinyl alcohol) hydrogel. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 455-460.	2.9	44
14	Synergetic improvement in electromagnetic interference shielding characteristics of polyaniline-coated graphite oxide/Fe ₃ O ₄ /BaTiO ₃ nanocomposites. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 493-497.	2.9	44
15	Preparation of O/W Pickering emulsion with oxygen plasma treated carbon nanotubes as surfactants. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 455-460.	2.9	41
16	Dynamic mechanical properties of natural fiber/polymer biocomposites: The effect of fiber treatment with electron beam. <i>Macromolecular Research</i> , 2008, 16, 253-260.	1.0	40
17	pH and electro-responsive release behavior of MWCNT/PVA/PAAc composite microcapsules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 168, 23-30.	2.3	40
18	Effect of oxyfluorination on gas sensing behavior of polyaniline-coated multi-walled carbon nanotubes. <i>Applied Surface Science</i> , 2012, 258, 3462-3468.	3.1	37

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19	Synthesis and photocatalytic performance of PVA/TiO ₂ /graphene/MWCNT nanocomposites for dye removal. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	34
20	Preparation of poly(polyethylene glycol methacrylate-co-acrylic acid) hydrogels by radiation and their physical properties. <i>Radiation Physics and Chemistry</i> , 2004, 69, 221-227.	1.4	32
21	Preparation of poly(vinyl alcohol)/poly(acrylic acid)/TiO ₂ /carbon nanotube composite nanofibers and their photobleaching properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 487-491.	2.9	32
22	Effect of oxyfluorination on electromagnetic interference shielding of polyaniline-coated multi-walled carbon nanotubes. <i>Colloid and Polymer Science</i> , 2011, 289, 1749-1755.	1.0	31
23	Improvement in ammonia gas sensing behavior by polypyrrole/multi-walled carbon nanotubes composites. <i>Carbon Letters</i> , 2012, 13, 88-93.	3.3	31
24	Novel synthesis of self-assembled CNT microcapsules by O/W Pickering emulsions. <i>Materials Letters</i> , 2010, 64, 2589-2592.	1.3	30
25	Electromagnetic interference shielding effects of polyaniline-coated multi-wall carbon nanotubes/maghemite nanocomposites. <i>Polymer Bulletin</i> , 2012, 68, 561-573.	1.7	30
26	pH-sensitive photocatalytic activities of TiO ₂ /poly(vinyl alcohol)/poly(acrylic acid) composite hydrogels. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 276-281.	1.7	29
27	Preparation and Characteristics of Conducting Polymer-Coated MWCNTs as Electromagnetic Interference Shielding Materials. <i>Carbon Letters</i> , 2011, 12, 48-52.	3.3	29
28	Synthesis of PMMA and PMMA/PS nanoparticles by microemulsion polymerization with a new vapor monomer feeding system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 364, 145-150.	2.3	26
29	pH-responsive release behavior of genipin-crosslinked chitosan/poly(ethylene glycol) hydrogels. <i>Journal of Applied Polymer Science</i> , 2012, 125, E290.	1.3	23
30	Synthesis, Characterization, and Hydrolytic Degradation of Polylactide/Poly(ethylene) Terephthalate (PLA/PET) Blends. <i>Journal of Applied Polymer Science</i> , 2012, 49, 348-354.	1.2	22
31	Improvement of thermal stability of UV curable pressure sensitive adhesive by surface modified silica nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 1212-1218.	1.7	22
32	Effect of Photo-crosslinking on Clean Debonding of Acrylic Pressure Sensitive Adhesives from Silicon Wafer. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2012, 25, 705-712.	0.1	21
33	Adhesion Performance and Microscope Morphology of UV-Curable Semi-interpenetrated Dicing Acrylic PSAs in Si-Wafer Manufacture Process for MCP. <i>Journal of Adhesion Science and Technology</i> , 2012, 26, 317-329.	1.4	21
34	A hybrid gas-sensing material based on porous carbon fibers and a TiO ₂ photocatalyst. <i>Journal of Materials Science</i> , 2013, 48, 8320-8328.	1.7	21
35	Improvement in transdermal drug delivery performance by graphite oxide/temperature-responsive hydrogel composites with micro heater. <i>Materials Science and Engineering C</i> , 2012, 32, 1564-1570.	3.8	20
36	Dual-responsive release behavior of pH-sensitive PVA/PAAc hydrogels containing temperature-sensitive PVA/PNIPAAm microcapsules. <i>Polymer Bulletin</i> , 2012, 68, 1109-1119.	1.7	19

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37	Preparation of poly(vinyl alcohol)/poly(acrylic acid) microcapsules and microspheres and their pH-responsive release behavior. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 902-906.	2.9	18
38	Preparation and properties of UV curable acrylic PSA by vinyl bonded graphene oxide. <i>Applied Surface Science</i> , 2013, 285, 727-731.	3.1	18
39	Preparation and characteristics of conducting polymer-coated multiwalled carbon nanotubes for a gas sensor. <i>Carbon Letters</i> , 2011, 12, 162-166.	3.3	17
40	Henequen/Unsaturated Polyester Biocomposites: Electron Beam Irradiation Treatment and Alkali Treatment Effects on the Henequen Fiber. <i>Macromolecular Symposia</i> , 2006, 245-246, 539-548.	0.4	16
41	Controlled release behavior of PCL/PEO/activated carbon composite microcapsule. <i>Journal of Polymer Research</i> , 2011, 18, 2441-2447.	1.2	16
42	Removal of Lead and Nickel Ions from Wastewater by Genipin Crosslinked Chitosan/Poly(ethylene Terephthalate) Composite Membrane. <i>Journal of Applied Polymer Science</i> , 2013, 129, 276-281.	1.2	15
43	Improvement in wettability of pressure-sensitive adhesive on silicon wafer using crosslinking agent with siloxane groups. <i>Journal of Applied Polymer Science</i> , 2013, 129, 276-281.	1.3	15
44	Wettability and adhesion characteristics of photo-crosslinkable adhesives for thin silicon wafer. <i>International Journal of Adhesion and Adhesives</i> , 2013, 40, 197-201.	1.4	14
45	Improvement of NO Gas Sensing Properties of Polyaniline/MWCNT Composite by Photocatalytic Effect of TiO ₂ . <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	14
46	Control of release characteristics in pH-sensitive poly(vinyl alcohol)/poly(acrylic acid) microcapsules containing chemically treated alumina core. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1853-1858.	1.3	13
47	Effect of oxygen plasma treatment of carbon nanotubes on electromagnetic interference shielding of polypyrrole-coated carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2012, 126, E39.	1.3	13
48	Effect of naphthyl curing agent having thermally stable structure on properties of UV-cured pressure sensitive adhesive. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3195-3200.	2.9	13
49	Effect of graphite oxide on photodegradation behavior of poly(vinyl alcohol)/graphite oxide composite hydrogels. <i>Carbon Letters</i> , 2011, 12, 138-142.	3.3	12
50	Controlled Release Behavior of pH-Responsive Composite Hydrogel Containing Activated Carbon. <i>Carbon Letters</i> , 2009, 10, 33-37.	3.3	11
51	Electro-responsive Transdermal Drug Release of MWCNT/PVA Nanocomposite Hydrogels. <i>Carbon Letters</i> , 2010, 11, 211-215.	3.3	11
52	Antibacterial activity of pH-sensitive genipin crosslinked chitosan/poly(ethylene glycol)/silver nanocomposites. <i>Polymers for Advanced Technologies</i> , 2012, 23, 8-14.	1.6	10
53	Removal of Cu(II) ions by Alginate/Carbon Nanotube/Maghemite Composite Magnetic Beads. <i>Carbon Letters</i> , 2010, 11, 117-121.	3.3	9
54	Controlled Release Behavior of Temperature Responsive Composite Hydrogel Containing Activated Carbon. <i>Carbon Letters</i> , 2008, 9, 283-288.	3.3	8

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55	Control of drug release behavior of pH-responsive PVA/PAAc hydrogel by surface modification with oxyfluorination. <i>Macromolecular Research</i> , 2012, 20, 1029-1036.	1.0	7
56	Improvement in mechanical properties of recycled polypropylene composite by controlling the length distribution of glass fibers. <i>Polymer Composites</i> , 2021, 42, 2171-2179.	2.3	7
57	Improvement in nano-pattern replication of injection molding by polyamide/dendrimer blend. <i>Polymer Engineering and Science</i> , 2021, 61, 822-829.	1.5	7
58	Temperature and pH-Responsive Release Behavior of PVA/PAAc/PNIPAAm/MWCNTs Nanocomposite Hydrogels. <i>Carbon Letters</i> , 2012, 13, 173-177.	3.3	7
59	Preparation of temperature-responsive hydrogel nanocapsules with interfacial modification of colloidal silica. <i>Composite Interfaces</i> , 2006, 13, 277-284.	1.3	6
60	Novel synthesis of silica/polypyrrole hybrid nanocomposites via microemulsion polymerization with a vapor monomer feeding system. <i>Macromolecular Research</i> , 2011, 19, 21-26.	1.0	6
61	Effect of oxyfluorination of PVA/PNIPAAm hydrogel on temperature responsive drug release. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	6
62	Variation of Adhesion Characteristics of Acryl Copolymer/Multi-functional Monomer Based PSA by UV Curing. <i>Porrime</i> , 2012, 36, 315-320.	0.0	5
63	THE EFFECT OF POLYAMIDE PARTICLES ON THE PROCESSIBILITY OF SELECTIVE LASER SINTERING. <i>International Journal of Modern Physics B</i> , 2008, 22, 1827-1832.	1.0	4
64	Sustained release behavior of pH-responsive poly(vinyl alcohol)/poly(acrylic acid) hydrogels containing activated carbon fibers. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1050-1056.	1.3	4
65	Improvement of Physical Properties of Polypropylene Chemical Foam by Glass Fiber Reinforcement. <i>Porrime</i> , 2019, 43, 589-594.	0.0	4
66	A selective drug-release system consisting of surface-modified electrospun carbon fibers by oxy/fluorination. <i>Journal of Porous Materials</i> , 2012, 19, 781-789.	1.3	3
67	Evaluation of internal structure and morphology of poly(benzyl ether) dendrimers by molecular dynamics simulations. <i>Macromolecular Research</i> , 2004, 12, 178-188.	1.0	2
68	Preparation of PVDF Microfiltration Membranes with Thermo-responsive PNIPAM Hydrogel Composite Particles. <i>Composite Interfaces</i> , 2009, 16, 329-336.	1.3	2
69	Mechanical and Antimicrobial Properties of Genipin-Crosslinked Chitosan/Poly(Ethylene Glycol) IPN. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 1069-1079.	0.4	2
70	Effect of side chain on wettability and adhesion performance of acrylic pressure-sensitive adhesives on thin silicon wafer. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 1136-1145.	1.4	2
71	Effect on Graphene Addition on Characteristics of Polypropylene Biocomposites Reinforced with Sulfuric Acid Treated Green Algae. <i>Porrime</i> , 2013, 37, 518-525.	0.0	2
72	Ion Conductivity of Polymer Electrolytes Based on PEO Containing Li Salt and Additive Salt. <i>Solid State Phenomena</i> , 2007, 119, 119-122.	0.3	1

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73	Manufacture of polymer powders for the industrial SFF system by using SLS process. , 2007, , .		0
74	Effect of Surface Oxidation on Welding Properties of Polyethylene Pipe. Pprime, 2017, 41, 139.	0.0	0
75	Characteristics of Graft Reaction of Acrylic Acid on Pyrolysis Polyethylene Wax. Pprime, 2017, 41, 745-749.	0.0	0
76	Preparation of Acrylic Acid-modified Polyethylene Wax by Sequential Reaction of Pyrolysis and Grafting. Pprime, 2018, 42, 466-469.	0.0	0
77	Synthesis of Modified Chelate Resins Containing N-methyl-D-glucamine and Improvement of Boron Removing Characteristics. Pprime, 2018, 42, 409-416.	0.0	0
78	Improvement in Polar Characteristics of Polyethylene Wax by Grafting with Styrene-Maleic Anhydride. Pprime, 2018, 42, 539-543.	0.0	0
79	Improvement of Electrical Properties of Polymer Composites by Acrylic Oligomer Modified Graphene Oxide. Pprime, 2018, 42, 1046-1051.	0.0	0
80	Photocatalytic Decomposition Characteristics of pH-Responsive Polymer/TiO ₂ /MWCNT Nanocomposite. Pprime, 2018, 42, 1091-1095.	0.0	0