

# Hyung-Il Kim

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

1,786  
citations

26  
h-index

39  
g-index

83  
ext. papers

1,913  
ext. citations

3  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
72	Improvement in mechanical properties of recycled polypropylene composite by controlling the length distribution of glass fibers. <i>Polymer Composites</i> , <b>2021</b> , 42, 2171-2179	3	3
71	Improvement in nano-pattern replication of injection molding by polyamide/dendrimer blend. <i>Polymer Engineering and Science</i> , <b>2021</b> , 61, 822-829	2.3	3
70	Improvement of Physical Properties of Polypropylene Chemical Foam by Glass Fiber Reinforcement. <i>Porrime</i> , <b>2019</b> , 43, 589-594	1	4
69	Synthesis and photocatalytic performance of PVA/TiO <sub>2</sub> /graphene-MWCNT nanocomposites for dye removal. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	29
68	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> , <b>2014</b> , 20, 3195-3200	6.3	11
67	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> , <b>2013</b> , 27, 1136-1145	2	2
66	Improvement of ammonia sensing properties of polypyrrole by nanocomposite with graphitic materials. <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 1095-1103	2.4	47
65	A hybrid gas-sensing material based on porous carbon fibers and a TiO <sub>2</sub> photocatalyst. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 8320-8328	4.3	18
64	Pretreatment effects of seaweed on the thermal and mechanical properties of seaweed/polypropylene biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 47, 83-90	8.4	37
63	Poly(vinyl alcohol)/poly(acrylic acid)/TiO <sub>2</sub> /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> , <b>2013</b> , 178, 1097-1103	3.1	63
62	Preparation and properties of UV curable acrylic PSA by vinyl bonded graphene oxide. <i>Applied Surface Science</i> , <b>2013</b> , 285, 727-731	6.7	16
61	Wettability and adhesion characteristics of photo-crosslinkable adhesives for thin silicon wafer. <i>International Journal of Adhesion and Adhesives</i> , <b>2013</b> , 40, 197-201	3.4	13
60	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> , <b>2013</b> , 178, 1212-1218	3.1	19
59	Improvement in wettability of pressure-sensitive adhesive on silicon wafer using crosslinking agent with siloxane groups. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 276-281	2.9	15
58	Synergetic improvement in electromagnetic interference shielding characteristics of polyaniline-coated graphite oxide/Fe <sub>2</sub> O <sub>3</sub> /BaTiO <sub>3</sub> nanocomposites. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2013</b> , 19, 493-497	6.3	41
57	Improvement of NO Gas Sensing Properties of Polyaniline/MWCNT Composite by Photocatalytic Effect of TiO <sub>2</sub> . <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-6	3.2	11
56	Effect on Graphene Addition on Characteristics of Polypropylene Biocomposites Reinforced with Sulfuric Acid Treated Green Algae. <i>Porrime</i> , <b>2013</b> , 37, 518-525	1	2

55	Preparation of poly(vinyl alcohol)/poly(acrylic acid)/TiO <sub>2</sub> /carbon nanotube composite nanofibers and their photobleaching properties. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2012</b> , 18, 487-491	6.3	30
54	Effect of oxyfluorination on electromagnetic interference shielding of polypyrrole-coated multi-walled carbon nanotubes. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2012</b> , 18, 392-398	6.3	50
53	Effect of surface modification of graphene oxide on photochemical stability of poly(vinyl alcohol)/graphene oxide composites. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2012</b> , 18, 752-756	6.3	37
52	Dual-responsive release behavior of pH-sensitive PVA/PAAc hydrogels containing temperature-sensitive PVA/PNIPAAm microcapsules. <i>Polymer Bulletin</i> , <b>2012</b> , 68, 1109-1119	2.4	16
51	Electromagnetic interference shielding effects of polyaniline-coated multi-wall carbon nanotubes/maghemite nanocomposites. <i>Polymer Bulletin</i> , <b>2012</b> , 68, 561-573	2.4	26
50	A selective drug-release system consisting of surface-modified electrospun carbon fibers by oxy/fluorination. <i>Journal of Porous Materials</i> , <b>2012</b> , 19, 781-789	2.4	3
49	Control of drug release behavior of pH-responsive PVA/PAAc hydrogel by surface modification with oxyfluorination. <i>Macromolecular Research</i> , <b>2012</b> , 20, 1029-1036	1.9	6
48	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> , <b>2012</b> , 26, 317-329	2	18
47	Removal of Lead and Nickel Ions from Wastewater by Genipin Crosslinked Chitosan/Poly(ethylene glycol) Films. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2012</b> , 49, 242-250	2.2	15
46	Effect of oxyfluorination on gas sensing behavior of polyaniline-coated multi-walled carbon nanotubes. <i>Applied Surface Science</i> , <b>2012</b> , 258, 3462-3468	6.7	31
45	Improvement in transdermal drug delivery performance by graphite oxide/temperature-responsive hydrogel composites with micro heater. <i>Materials Science and Engineering C</i> , <b>2012</b> , 32, 1564-70	8.3	14
44	Synthesis, Characterization, and Hydrolytic Degradation of Polylactide/Poly(ethylene glycol)/Nano-silica Composite Films. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2012</b> , 49, 348-354	2.2	19
43	Effect of oxyfluorination of PVA/PNIPAAm hydrogel on temperature responsive drug release. <i>Journal of Polymer Research</i> , <b>2012</b> , 19, 1	2.7	4
42	Antibacterial activity of pH-sensitive genipin cross-linked chitosan/poly(ethylene glycol)/silver nanocomposites. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 8-14	3.2	10
41	Mechanical and Antimicrobial Properties of Genipin-Crosslinked Chitosan/Poly(Ethylene Glycol) IPN. <i>Journal of Macromolecular Science - Physics</i> , <b>2012</b> , 51, 1069-1079	1.4	1
40	Effect of oxygen plasma treatment of carbon nanotubes on electromagnetic interference shielding of polypyrrole-coated carbon nanotubes. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, E39-E47	2.9	11
39	pH-responsive release behavior of genipin-crosslinked chitosan/poly(ethylene glycol) hydrogels. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E290-E298	2.9	19
38	Characterization and antibacterial properties of genipin-crosslinked chitosan/poly(ethylene glycol)/ZnO/Ag nanocomposites. <i>Carbohydrate Polymers</i> , <b>2012</b> , 89, 111-6	10.3	142

37	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> , <b>2012</b> , 25, 705-712	0.7	15
36	Improvement in ammonia gas sensing behavior by polypyrrole/multi-walled carbon nanotubes composites. <i>Carbon Letters</i> , <b>2012</b> , 13, 88-93	2.3	24
35	Temperature and pH-Responsive Release Behavior of PVA/PAAc/PNIPAAm/MWCNTs Nanocomposite Hydrogels. <i>Carbon Letters</i> , <b>2012</b> , 13, 173-177	2.3	6
34	Variation of Adhesion Characteristics of Acryl Copolymer/Multi-functional Monomer Based PSA by UV Curing. <i>Porrime</i> , <b>2012</b> , 36, 315-320	1	4
33	Electro-responsive transdermal drug delivery behavior of PVA/PAA/MWCNT nanofibers. <i>European Polymer Journal</i> , <b>2011</b> , 47, 1893-1902	5.2	99
32	Controlled release behavior of PCL/PEO/activated carbon composite microcapsule. <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 2441-2447	2.7	11
31	Effect of oxyfluorination on electromagnetic interference shielding of polyaniline-coated multi-walled carbon nanotubes. <i>Colloid and Polymer Science</i> , <b>2011</b> , 289, 1749-1755	2.4	29
30	Novel synthesis of silica/polypyrrole hybrid nanocomposites via microemulsion polymerization with a vapor monomer feeding system. <i>Macromolecular Research</i> , <b>2011</b> , 19, 21-26	1.9	6
29	Sustained release behavior of pH-responsive poly(vinyl alcohol)/poly(acrylic acid) hydrogels containing activated carbon fibers. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 1050-1056	2.9	3
28	pH-sensitive photocatalytic activities of TiO <sub>2</sub> /poly(vinyl alcohol)/poly(acrylic acid) composite hydrogels. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2011</b> , 176, 276-281	3.1	24
27	Preparation of O/W Pickering emulsion with oxygen plasma treated carbon nanotubes as surfactants. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2011</b> , 17, 455-460	6.3	34
26	Preparation and Characteristics of Conducting Polymer-Coated MWCNTs as Electromagnetic Interference Shielding Materials. <i>Carbon Letters</i> , <b>2011</b> , 12, 48-52	2.3	27
25	Effect of graphite oxide on photodegradation behavior of poly(vinyl alcohol)/graphite oxide composite hydrogels. <i>Carbon Letters</i> , <b>2011</b> , 12, 138-142	2.3	10
24	Preparation and characteristics of conducting polymer-coated multiwalled carbon nanotubes for a gas sensor. <i>Carbon Letters</i> , <b>2011</b> , 12, 162-166	2.3	16
23	Synthesis of microcapsules with polystyrene/ZnO hybrid shell by Pickering emulsion polymerization. <i>Colloid and Polymer Science</i> , <b>2010</b> , 288, 1393-1399	2.4	59
22	Photocatalytic treatment of acidic waste water by electrospun composite nanofibers of pH-sensitive hydrogel and TiO <sub>2</sub> . <i>Materials Letters</i> , <b>2010</b> , 64, 2431-2434	3.3	63
21	Novel synthesis of self-assembled CNT microcapsules by O/W Pickering emulsions. <i>Materials Letters</i> , <b>2010</b> , 64, 2589-2592	3.3	28
20	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> , <b>2010</b> , 115, 1853-1858	2.9	10

19	Effect of oxyfluorination on electromagnetic interference shielding behavior of MWCNT/PVA/PAAc composite microcapsules. <i>European Polymer Journal</i> , <b>2010</b> , 46, 900-909	5.2	81
18	Fluorination of electrospun hydrogel fibers for a controlled release drug delivery system. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 102-9	10.8	55
17	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> , <b>2010</b> , 364, 145-150	5.1	24
16	pH and electro-responsive release behavior of MWCNT/PVA/PAAc composite microcapsules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 368, 23-30	5.1	36
15	Removal of Cu(II) ions by Alginate/Carbon Nanotube/Maghemite Composite Magnetic Beads. <i>Carbon Letters</i> , <b>2010</b> , 11, 117-121	2.3	6
14	Electro-responsive Transdermal Drug Release of MWCNT/PVA Nanocomposite Hydrogels. <i>Carbon Letters</i> , <b>2010</b> , 11, 211-215	2.3	10
13	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> , <b>2009</b> , 15, 902-906	6.3	16
12	Preparation of PVDF Microfiltration Membranes with Thermo-responsive PNIPAM Hydrogel Composite Particles. <i>Composite Interfaces</i> , <b>2009</b> , 16, 329-336	2.3	2
11	Controlled Release Behavior of pH-Responsive Composite Hydrogel Containing Activated Carbon. <i>Carbon Letters</i> , <b>2009</b> , 10, 33-37	2.3	8
10	THE EFFECT OF POLYAMIDE PARTICLES ON THE PROCESSIBILITY OF SELECTIVE LASER SINTERING. <i>International Journal of Modern Physics B</i> , <b>2008</b> , 22, 1827-1832	1.1	4
9	Dynamic mechanical properties of natural fiber/polymer biocomposites: The effect of fiber treatment with electron beam. <i>Macromolecular Research</i> , <b>2008</b> , 16, 253-260	1.9	36
8	Controlled Release Behavior of Temperature Responsive Composite Hydrogel Containing Activated Carbon. <i>Carbon Letters</i> , <b>2008</b> , 9, 283-288	2.3	8
7	Ion Conductivity of Polymer Electrolytes Based on PEO Containing Li Salt and Additive Salt. <i>Solid State Phenomena</i> , <b>2007</b> , 119, 119-122	0.4	1
6	Kenaf/polypropylene biocomposites: effects of electron beam irradiation and alkali treatment on kenaf natural fibers. <i>Composite Interfaces</i> , <b>2007</b> , 14, 559-578	2.3	68
5	Preparation of temperature-responsive hydrogel nanocapsules with interfacial modification of colloidal silica. <i>Composite Interfaces</i> , <b>2006</b> , 13, 277-284	2.3	5
4	Henequen/Unsaturated Polyester Biocomposites: Electron Beam Irradiation Treatment and Alkali Treatment Effects on the Henequen Fiber. <i>Macromolecular Symposia</i> , <b>2006</b> , 245-246, 539-548	0.8	15
3	Evaluation of internal structure and morphology of poly(benzyl ether) dendrimers by molecular dynamics simulations. <i>Macromolecular Research</i> , <b>2004</b> , 12, 178-188	1.9	2
2	Preparation of poly(polyethylene glycol methacrylate-co-acrylic acid) hydrogels by radiation and their physical properties. <i>Radiation Physics and Chemistry</i> , <b>2004</b> , 69, 221-227	2.5	30

- 1 Preparation of pH-sensitive poly(vinyl alcohol-g-methacrylic acid) and poly(vinyl alcohol-g-acrylic acid) hydrogels by gamma ray irradiation and their insulin release behavior. *Journal of Applied Polymer Science*, **2004**, 91, 636-643

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