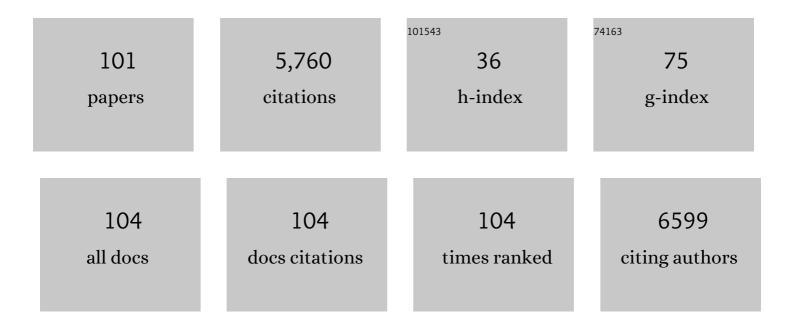
Hyung-Il Lee

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stimuli-responsive molecular brushes. Progress in Polymer Science, 2010, 35, 24-44.	24.7	600
2	Biodegradable Nanogels Prepared by Atom Transfer Radical Polymerization as Potential Drug Delivery Carriers:Â Synthesis, Biodegradation, in Vitro Release, and Bioconjugation. Journal of the American Chemical Society, 2007, 129, 5939-5945.	13.7	449
3	Light-Induced Reversible Formation of Polymeric Micelles. Angewandte Chemie - International Edition, 2007, 46, 2453-2457.	13.8	368
4	Adsorption-induced scission of carbon–carbon bonds. Nature, 2006, 440, 191-194.	27.8	341
5	Properties of Graphene/Waterborne Polyurethane Nanocomposites Cast from Colloidal Dispersion Mixtures. Journal of Macromolecular Science - Physics, 2012, 51, 197-207.	1.0	263
6	Graphite oxides as effective fire retardants of epoxy resin. Macromolecular Research, 2011, 19, 66-71.	2.4	242
7	Molecular brushes as super-soft elastomers. Polymer, 2006, 47, 7198-7206.	3.8	194
8	Graphene Modified Lipophilically by Stearic Acid and its Composite With Low Density Polyethylene. Journal of Macromolecular Science - Physics, 2014, 53, 1193-1204.	1.0	182
9	Phototunable Temperature-Responsive Molecular Brushes Prepared by ATRP. Macromolecules, 2006, 39, 3914-3920.	4.8	145
10	Cylindrical Coreâ^'Shell Brushes Prepared by a Combination of ROP and ATRP. Macromolecules, 2006, 39, 4983-4989.	4.8	130
11	Ligandâ€Clustered "Patchy―Nanoparticles for Modulated Cellular Uptake and In Vivo Tumor Targeting. Angewandte Chemie - International Edition, 2010, 49, 7266-7270.	13.8	125
12	Tadpole Conformation of Gradient Polymer Brushes. Macromolecules, 2004, 37, 4235-4240.	4.8	110
13	Bottle-brush macromolecules in solution: Comparison between results obtained from scattering experiments and computer simulations. Polymer, 2006, 47, 7318-7327.	3.8	102
14	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on physical properties. Macromolecular Research, 2011, 19, 809-814.	2.4	102
15	A Visible Light Responsive On–Off Polymeric Photoswitch for the Colorimetric Detection of Nerve Agent Mimics in Solution and in the Vapor Phase. Macromolecules, 2016, 49, 2568-2574.	4.8	100
16	Thermal Stability of Imidized Epoxy Blends Initiated byN-Benzylpyrazinium Hexafluoroantimonate Salt. Macromolecules, 2001, 34, 7573-7575.	4.8	91
17	Hetero-Grafted Block Brushes with PCL and PBA Side Chains. Macromolecules, 2008, 41, 6073-6080.	4.8	87
18	Molecular Brushes with Spontaneous Gradient by Atom Transfer Radical Polymerization. Macromolecules, 2005, 38, 8264-8271.	4.8	86

#	Article	IF	CITATIONS
19	BODIPY-Derived Polymeric Chemosensor Appended with Thiosemicarbazone Units for the Simultaneous Detection and Separation of Hg(II) Ions in Pure Aqueous Media. ACS Applied Materials & Interfaces, 2019, 11, 13685-13693.	8.0	81
20	High Yield Synthesis of Molecular Brushes via ATRP in Miniemulsion. Macromolecules, 2007, 40, 6557-6563.	4.8	78
21	pH-induced conformational changes of loosely grafted molecular brushes containing poly(acrylic) Tj ETQq1 1 0	.784314 rg 3.8	BT /Overlock 71
22	Crystallization of Molecular Brushes with Block Copolymer Side Chains. Macromolecules, 2009, 42, 9008-9017.	4.8	70
23	Properties of Graphene/Shape Memory Thermoplastic Polyurethane Composites Actuating by Various Methods. Materials, 2014, 7, 1520-1538.	2.9	63
24	Shape memory polyurethane nanocomposites with functionalized graphene. Smart Materials and Structures, 2012, 21, 075017.	3.5	61
25	Temperature-triggered reversible micellar self-assembly of linear–dendritic block copolymers. Chemical Communications, 2008, , 3726.	4.1	60
26	"Fatal Adsorption―of Brushlike Macromolecules:  High Sensitivity of Câ^'C Bond Cleavage Rates to Substrate Surface Energy. Journal of the American Chemical Society, 2008, 130, 4228-4229.	13.7	58
27	Novel Thermoresponsive Polymers Tunable by pH. Macromolecules, 2011, 44, 1628-1634.	4.8	58
28	Activation of Cholera Toxin Production by Anaerobic Respiration of Trimethylamine N-oxide in Vibrio cholerae. Journal of Biological Chemistry, 2012, 287, 39742-39752.	3.4	53
29	Thermoresponsive graphene nanosheets by functionalization with polymer brushes. Polymer, 2012, 53, 316-323.	3.8	53
30	Thermoresponsive ureido-derivatized polymers: the effect of quaternization on UCST properties. Polymer Chemistry, 2014, 5, 2411.	3.9	49
31	Molecular Imaging and Analysis of Branching Topology in Polyacrylates by Atomic Force Microscopy. Macromolecules, 2011, 44, 5928-5936.	4.8	43
32	BODIPY-derived multi-channel polymeric chemosensor with pH-tunable sensitivity: selective colorimetric and fluorimetric detection of Hg ²⁺ and HSO ₄ ^{â^'} in aqueous media. Polymer Chemistry, 2018, 9, 4882-4890.	3.9	42
33	Aldoxime-Derived Water-Soluble Polymer for the Multiple Analyte Sensing: Consecutive and Selective Detection of Hg ²⁺ , Ag ⁺ , ClO [–] , and Cysteine in Aqueous Media. Macromolecules, 2015, 48, 3934-3940.	4.8	40
34	Azoaniline-based rapid and selective dual sensor for copper and fluoride ions with two distinct output modes of detection. Sensors and Actuators B: Chemical, 2015, 211, 531-536.	7.8	40
35	Water-Soluble Polymeric Probes for the Selective Sensing of Mercury Ion: pH-Driven Controllable Detection Sensitivity and Time. Macromolecules, 2015, 48, 1048-1054.	4.8	38
36	A dual responsive molecular probe for the efficient and selective detection of nerve agent mimics and copper (II) ions with controllable detection time. Sensors and Actuators B: Chemical, 2017, 242, 977-982.	7.8	38

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37	A Pyrene Derived CO ₂ -Responsive Polymeric Probe for the Turn-On Fluorescent Detection of Nerve Agent Mimics with Tunable Sensitivity. Macromolecules, 2017, 50, 6888-6895.	4.8	37
38	The modification of graphene with alcohols and its use in shape memory polyurethane composites. Polymer International, 2013, 62, 54-63.	3.1	36
39	Alumina-coated graphene nanosheet and its composite of acrylic rubber. Journal of Colloid and Interface Science, 2014, 416, 38-43.	9.4	36
40	Structural mobility of molecular bottle-brushes investigated by NMR relaxation dynamics. Polymer, 2007, 48, 496-501.	3.8	35
41	Thermoresponsive fluorinated polyacrylamides with low cytotoxicity. Polymer Chemistry, 2013, 4, 2219-2223.	3.9	35
42	Triazoleâ€Containing Hydrogels for Timeâ€Dependent Sustained Drug Release. Macromolecular Rapid Communications, 2014, 35, 442-446.	3.9	34
43	Comparative dielectric studies of nanostructured BaTiO3, CaCu3Ti4O12 and 0.5BaTiO3â‹0.5CaCu3Ti4O12 nano-composites synthesized by modified sol–gel and solid state methods. Materials Characterization, 2014, 96, 54-62.	4.4	34
44	Dangling Chain Elastomers as Repeatable Fibrillar Adhesives. ACS Applied Materials & Interfaces, 2009, 1, 2277-2287.	8.0	32
45	A Reusable Polymeric Film for the Alternating Colorimetric Detection of a Nerve Agent Mimic and Ammonia Vapor with Sub-Parts-per-Million Sensitivity. ACS Applied Materials & Interfaces, 2020, 12, 11055-11062.	8.0	32
46	Single molecular probe for multiple analyte sensing: Efficient and selective detection of mercury and fluoride ions. Sensors and Actuators B: Chemical, 2015, 216, 80-85.	7.8	31
47	Effect of chain topology on the self-organization and the mechanical properties of poly(n-butyl) Tj ETQq1 1 0.78	4314 rgB	T /Qverlock 1
48	pH-tunable aqueous dispersion of graphene nanocomposites functionalized with poly(acrylic acid) brushes. Polymer, 2012, 53, 4955-4960.	3.8	29
49	Flory Theorem for Structurally Asymmetric Mixtures. Physical Review Letters, 2007, 99, 137801.	7.8	28
50	The effects of graphene on the properties of acrylic pressure-sensitive adhesive. Journal of Industrial and Engineering Chemistry, 2014, 20, 4108-4111.	5.8	26
51	The first kinetic hydrate inhibition investigation on fluorinated polymers: Poly(fluoroalkylacrylamide)s. Chemical Engineering Science, 2014, 119, 230-235.	3.8	26
52	A recyclable polymeric film for the consecutive colorimetric detection of cysteine and mercury ions in the aqueous solution. Sensors and Actuators B: Chemical, 2018, 257, 728-733.	7.8	26
53	Recyclable Polymeric Thin Films for the Selective Detection and Separation of Picric Acid. ACS Applied Materials & Interfaces, 2018, 10, 41717-41723.	8.0	26
54	Chromophore-Free photonic multilayer films for the ultra-sensitive colorimetric detection of nerve agent mimics in the vapor phase. Sensors and Actuators B: Chemical, 2020, 323, 128698.	7.8	24

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55	Precisely Tunable Humidity Color Indicator Based on Photonic Polymer Films. Macromolecules, 2021, 54, 621-628.	4.8	23
56	Effect of pyrene treatment on the properties of graphene/epoxy nanocomposites. Macromolecular Research, 2010, 18, 1125-1128.	2.4	22
57	Polymeric micelles based on photocleavable linkers tethered with a model drug. Polymer, 2014, 55, 1436-1442.	3.8	21
58	Polymeric Micelles Based on Light-Responsive Block Copolymers for the Phototunable Detection of Mercury(II) lons Modulated by Morphological Changes. ACS Applied Materials & Interfaces, 2018, 10, 34634-34639.	8.0	20
59	A fluorimetric water-soluble polymeric pH chemosensor for extremely acidic conditions: Live-cell and bacterial imaging application. Sensors and Actuators B: Chemical, 2020, 320, 128379.	7.8	20
60	Reusable polymeric films for fluorometric Al3+ detection in anti-counterfeiting and security applications. Sensors and Actuators B: Chemical, 2021, 345, 130420.	7.8	19
61	Novel thermoresponsive fluorinated doubleâ€hydrophilic poly{[<i>N</i> â€{2,2â€difluoroethyl)acrylamide]â€ <i>b</i> â€{ <i>N</i> â€{2â€fluoroethyl)acrylamide]} block copolymers. Journal of Polymer Science Part A, 2013, 51, 1976-1982.	2.3	18
62	Direct covalent modification of thermally exfoliated graphene forming functionalized graphene stably dispersible in water and poly(vinyl alcohol). Colloid and Polymer Science, 2013, 291, 2365-2374.	2.1	18
63	Recyclable macromolecular thermogels for Hg(II) detection and separation via sol-gel transition in complex aqueous environments. Journal of Hazardous Materials, 2021, 410, 124625.	12.4	16
64	The properties of functionalized graphene sheet/poly(ethyl methacrylate) nanocomposites: The effects of preparation method. Macromolecular Research, 2011, 19, 379-384.	2.4	15
65	Toward rapid and selective detection of hypochlorous acid in pure aqueous media and its application to cell imaging: BODIPY-derived water-soluble macromolecular chemosensor with high sensitivity. Dyes and Pigments, 2020, 172, 107858.	3.7	15
66	The Effect of Oxidation on Properties of Graphene and Its Polycaprolactone Nanocomposites. Journal of Nanoscience and Nanotechnology, 2012, 12, 8420-8430.	0.9	14
67	A water-soluble polymer for selective colorimetric sensing of cysteine and homocysteine with temperature-tunable sensitivity. Polymer Chemistry, 2014, 5, 4405.	3.9	13
68	Water-Soluble Polymeric Probe for the Selective Sensing and Separation of Cu(II) Ions in Aqueous Media: pH-Tunable Detection Sensitivity and Efficient Separation by Thermal Precipitation. Macromolecules, 2017, 50, 8529-8535.	4.8	13
69	Water-soluble polymeric probe with dual recognition sites for the sequential colorimetric detection of cyanide and Fe (III) ions. Dyes and Pigments, 2019, 167, 174-180.	3.7	12
70	Background color dependent photonic multilayer films for anti-counterfeiting labeling. Nanoscale, 2022, 14, 5377-5383.	5.6	12
71	Thermo-tunable colorimetric detection of mercury(<scp>ii</scp>) ions driven by the temperature-dependent assembly and disassembly of a block copolymer. Polymer Chemistry, 2019, 10, 4017-4024.	3.9	11
72	Two-in-One Dual-Channel Boronic Ester Block Copolymer for the Colorimetric Detection of Cysteine and Glucose at Neutral pH. ACS Sustainable Chemistry and Engineering, 2021, 9, 9915-9922.	6.7	11

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73	Azobenzene–Hemicyanine Conjugated Polymeric Chemosensor for the Rapid and Selective Detection of Cyanide in Pure Aqueous Media. Journal of Polymer Science, 2020, 58, 124-131.	3.8	10
74	Graphenes for low percolation threshold in electroconductive nylon 6 composites. Polymer International, 2014, 63, 1003-1010.	3.1	8
75	Rheooscillations of a Bottlebrush Polymer Solution Due to Shear-Induced Phase Transitions between a Shear Molten State and a Line Hexatic Phase. Macromolecules, 2007, 40, 7680-7688.	4.8	7
76	Time-dependent increase in aqueous solubility caused by the gradual disruption of hydrophobic aggregation. Polymer Chemistry, 2012, 3, 1002.	3.9	7
77	Use of Core-Cross-Linked Polymeric Micelles Induced by the Selective Detection of Cu(II) Ions for the Sustained Release of a Model Drug. ACS Applied Materials & Interfaces, 2019, 11, 14368-14375.	8.0	7
78	Well-Defined Thermoresponsive Copolymers with Tunable LCST and UCST in Water. Bulletin of the Korean Chemical Society, 2014, 35, 501-504.	1.9	7
79	Photonic multilayers for ultrasensitive millisecond colorimetric discrimination between benzene, toluene, and xylene. Sensors and Actuators B: Chemical, 2022, 351, 130974.	7.8	6
80	New benzylidene oxazolone derived polymeric photoswitches for light-induced tunable thermoresponsive behaviors. Polymer Chemistry, 2014, 5, 6426-6430.	3.9	5
81	Efficient colorimetric detection of cyanide ions using hemicyanine-based polymeric probes with detection-induced self-assembly in water. Polymer, 2021, 213, 123320.	3.8	5
82	Transparent nanocellulose paper-based biodegradable colorimetric nerve agent detectors. Carbohydrate Polymers, 2022, 295, 119845.	10.2	4
83	Functionalized graphene sheets/polycarbonate nanocomposites compatibilized by poly(phenylenevinylene). Macromolecular Research, 2012, 20, 768-771.	2.4	3
84	Tunable thermoresponsiveness of copolymers with various amine groups in the side chains. Macromolecular Research, 2013, 21, 202-206.	2.4	3
85	pH-Induced reversible formation of core-crosslinked star polymers. Macromolecular Research, 2017, 25, 542-545.	2.4	3
86	Microwave-Assisted Synthesis of Core-Crosslinked Star Polymers with Benzophenone Derivatives in the Core. Macromolecular Research, 2019, 27, 476-480.	2.4	3
87	Tuning the ability to discriminate between geometric isomers maleic acid and fumaric acid of water-soluble polymeric probes with a donor-ï€-acceptor skeleton. Polymer, 2020, 186, 122040.	3.8	3
88	Thermoresponsive Sulfone and Sulfoxideâ€Containing Polyacrylamides. Bulletin of the Korean Chemical Society, 2021, 42, 1143-1150.	1.9	3
89	A Multisegmented Polystyrene with pH-Cleavable Linkages. Bulletin of the Korean Chemical Society, 2014, 35, 2694-2698.	1.9	3
90	Shape memory polyurethane nanocomposites with a functionalized graphene. , 2013, , .		2

#	Article	IF	CITATIONS
91	pH-responsive polymeric micelles from sulfamate-conjugated block copolymers. Macromolecular Research, 2015, 23, 129-133.	2.4	2
92	Efficient oxidative self-coupling of polystyrene bearing chain-end primary amines. Polymer, 2015, 72, 336-340.	3.8	2
93	Waterâ€Soluble Polymeric Probes for the pHâ€Tunable Fluorometric Detection of Hydrogen Peroxide. Bulletin of the Korean Chemical Society, 2020, 41, 537-541.	1.9	2
94	Thin Polymeric Films for Real-Time Colorimetric Detection of Hydrazine Vapor with Parts-per-Million Sensitivity. ACS Applied Polymer Materials, 0, , .	4.4	2
95	Recent advances in polymeric chemosensors for the detection and removal of mercury ions in complex aqueous media. Journal of Macromolecular Science - Pure and Applied Chemistry, 2022, 59, 389-402.	2.2	2
96	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on the physical properties. , 2010, , .		1
97	Molecular brushes with extreme grafted side chain densities. Polymer, 2012, 53, 3462-3468.	3.8	1
98	Clustering and Dissolution of Triazole Branched Poly(ethyl methylacrylate). Macromolecular Chemistry and Physics, 2015, 216, 1251-1259.	2.2	1
99	Synthesis of Protein–Polymer–Protein Bioconjugates by the Combination of Atom Transfer Radical Polymerization and Click Reaction. Bulletin of the Korean Chemical Society, 2016, 37, 1961-1965.	1.9	0
100	Azobenzene–Hemicyanine Conjugated Polymeric Chemosensor for the Rapid and Selective Detection of Cyanide in Pure Aqueous Media. Journal of Polymer Science, 2020, 58, 124-131.	3.8	0
101	Influence of Quaternization on UCST Properties of Hydroxyl-Derivatized Polymers. Bulletin of the Korean Chemical Society, 2014, 35, 3001-3004	1.9	Ο