

Sang Youl Kim

List of Publications by Year in descending order

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papers

1,698
citations

331670

21
h-index

345221

36
g-index

108
all docs

108
docs citations

108
times ranked

1850
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction and control of supramolecular chirality by light in self-assembled helical nanostructures. <i>Nature Communications</i> , 2015, 6, 6959.	12.8	180
2	Pervaporation separation of water from ethanol through polyimide composite membranes. <i>Journal of Membrane Science</i> , 2000, 169, 81-93.	8.2	98
3	Lithographically Patterned Breath Figure of Photoresponsive Small Molecules: Dual-Patterned Honeycomb Lines from a Combination of Bottom-Up and Top-Down Lithography. <i>Advanced Materials</i> , 2009, 21, 4130-4133.	21.0	77
4	Soluble polyimides with trifluoromethyl pendent groups. <i>Polymer</i> , 2013, 54, 5648-5654.	3.8	75
5	Soluble and transparent polyimides from unsymmetrical diamine containing two trifluoromethyl groups. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4413-4422.	2.3	70
6	Synthesis of Poly(arylene ether ketone)s Containing Trifluoromethyl Groups via Nitro Displacement Reaction. <i>Macromolecules</i> , 1998, 31, 3385-3387.	4.8	60
7	Poly(amide-imide) materials for transparent and flexible displays. <i>Science Advances</i> , 2018, 4, eaau1956.	10.3	57
8	Well-Defined Star-Shaped Rod-Coil Diblock Copolymers as a New Class of Unimolecular Micelles: Encapsulation of Guests and Thermoresponsive Phase Transition. <i>Macromolecules</i> , 2010, 43, 8304-8313.	4.8	53
9	Soluble wholly aromatic polyamides containing unsymmetrical pyridyl ether linkages. <i>Polymer</i> , 2006, 47, 547-552.	3.8	52
10	Incorporation effects of fluorinated side groups into polyimide membranes on their physical and gas permeation properties. <i>Journal of Applied Polymer Science</i> , 2000, 77, 2756-2767.	2.6	48
11	Highly Efficient Visible Blue-Emitting Black Phosphorus Quantum Dot: Mussel-Inspired Surface Functionalization for Bioapplications. <i>ACS Omega</i> , 2017, 2, 7096-7105.	3.5	37
12	Hyperbranched Poly(arylene ether amide) via Nucleophilic Aromatic Substitution Reaction. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1862-1869.	2.2	33
13	Synthesis of Hyperbranched Poly(phenylene oxide) by Ullmann Polycondensation and Subsequent Utilization as Unimolecular Micelle. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1660-1664.	2.2	27
14	Soluble rigid rod-like polyimides and polyamides containing curable pendent groups. <i>Polymer</i> , 2005, 46, 3992-4004.	3.8	26
15	Chromium-based ethylene tetramerization with diphosphinoamines bearing pendent amine donors. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 17-21.	4.8	26
16	Wholly Aromatic Polyimides Containing Pendent Amino and Cyano Groups. <i>Macromolecules</i> , 1998, 31, 5920-5923.	4.8	25
17	Synthesis of well-defined rod-coil block copolymers containing trifluoromethylated poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Over <i>Journal of Polymer Science Part A</i> , 2010, 48, 1049-1057.	2.3	25
18	Chain transfer reaction in metallocene catalyzed ethylene copolymerization with allyltrimethylsilane. <i>Polymer Bulletin</i> , 1999, 43, 333-340.	3.3	24

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19	Molecular Self-Assembly of Macroporous Parallelogrammatic Pipes. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6306-6310.	13.8	24
20	Synthesis of Poly(arylene ether)s Containing Triphenylamine Units via Nitro Displacement Reaction. <i>Macromolecules</i> , 2005, 38, 5844-5845.	4.8	23
21	Self-Association of Bis-Dendritic Organogelators: The Effect of Dendritic Architecture on Multivalent Cooperative Interactions. <i>Chemistry - A European Journal</i> , 2010, 16, 2427-2441.	3.3	21
22	Azide-bearing polymer-based solid composite propellant prepared by a dual curing system consisting of a urethane-forming reaction and a dipolar addition reaction. <i>Fuel</i> , 2014, 136, 165-171.	6.4	21
23	Synthesis and properties of conjugated cyclopolymers bearing fluorene derivatives. <i>Macromolecular Research</i> , 2005, 13, 491-498.	2.4	20
24	Dual-mode fluorescence switching induced by self-assembly of well-defined poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	4.1	20
25	Pd(II)-catalyzed polymerization of optically active norbornene carboxylic acid esters. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1263-1270.	2.3	19
26	Polymerizations of propylene with unsymmetrical ($\hat{1}$ -diimine)nickel(II) catalysts. <i>Macromolecular Research</i> , 2006, 14, 306-311.	2.4	19
27	Chain transfer reactions in metallocene catalyzed polymerization of allylbenzene. <i>Polymer Bulletin</i> , 1999, 42, 301-307.	3.3	17
28	Nanoporous Low Dielectric Cyclosiloxane Bearing Polysilsesquioxane Thin Films Templated by Poly($\hat{1}$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.8	17
29	Cyclopolymerization of $\hat{1}$ -methylbenzyl dipropargylamine by transition metal catalysts. <i>Macromolecular Research</i> , 2007, 15, 267-271.	2.4	17
30	Poly(arylene ether)s with Low Refractive Indices: Poly(biphenylene oxide)s with Trifluoromethyl Pendant Groups via a Meta-Activated Nitro Displacement Reaction. <i>Macromolecules</i> , 2012, 45, 3023-3031.	4.8	17
31	Energetic polymeric networks prepared via a solvent- and catalyst-free thermal cycloaddition of azide-bearing polymers with alkynes and hydroxyl-isocyanate addition reactions. <i>Polymer Chemistry</i> , 2015, 6, 7913-7920.	3.9	17
32	Observing Phase Transition of a Temperature-Responsive Polymer Using Electrochemical Collisions on an Ultramicroelectrode. <i>Analytical Chemistry</i> , 2018, 90, 7261-7266.	6.5	17
33	Hyperbranched poly(arylene ether phosphine oxide)s. <i>Polymer Bulletin</i> , 2000, 45, 319-326.	3.3	16
34	Surface-independent vertical orientation of cylindrical microdomains in block copolymer thin films directed by comb-coil architecture. <i>Journal of Materials Chemistry</i> , 2010, 20, 94-102.	6.7	16
35	Synthesis and physical gelation induced by self-assembly of well-defined poly(arylene ether sulfone)s with various numbers of arms. <i>Polymer Chemistry</i> , 2011, 2, 1174-1179.	3.9	16
36	Synthesis and characterization of poly(amide imides) containing benzimidazole-rings. <i>Polymer Bulletin</i> , 1997, 38, 627-634.	3.3	14

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37	Synthesis and Characterization of Polyimides from Unsymmetrical Diamine with Cyano Groups. <i>Polymer Journal</i> , 2001, 33, 284-289.	2.7	14
38	Synthesis and properties of poly[2-ethynyl-N-(p-hydroxyphenylethyl) pyridinium bromide] and Poly[2-ethynyl-N-(p-hydroxyphenylethyl) pyridinium tetraphenylborate]. <i>Macromolecular Research</i> , 2004, 12, 407-412.	2.4	14
39	Synthesis and self-assembly of diblock copolymers composed of poly(3-hexylthiophene) and poly(fluorooctyl methacrylate) segments. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4680-4686.	2.3	13
40	Particle and breath figure formation of triblock copolymers having self-complementary hydrogen-bonding units. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4408-4414.	2.3	13
41	Unprecedented Lower Critical Solution Temperature Behavior of Polyimides in Organic Media. <i>Macromolecules</i> , 2014, 47, 8846-8849.	4.8	13
42	Synthesis and Electrochemical Properties of Poly[N-(6-azidoethyl)-2-ethynylpyridinium tetraphenylborate]. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 472, 271/[661]-278/[668].	0.9	10
43	Poly(arylene ether)s with trifluoromethyl groups via meta-activated nitro displacement reaction. <i>Polymer</i> , 2010, 51, 4477-4483.	3.8	10
44	Synthesis and phase transition behavior of well-defined Poly(arylene ether sulfone)s by chain growth condensation polymerization in organic media. <i>Polymer</i> , 2018, 153, 430-437.	3.8	10
45	Homochiral Supramolecular Thin Film from Self-Assembly of Achiral Triarylamine Molecules by Circularly Polarized Light. <i>Molecules</i> , 2020, 25, 402.	3.8	10
46	Well-Defined Dual Light- and Thermo-Responsive Rod-Coil Block Copolymers Containing an Azobenzene, MEO2MA and OEGMA. <i>Polymers</i> , 2020, 12, 284.	4.5	10
47	Utilization of Evaporation during the Crystallization Process: Self-Templation of Organic Parallelogrammatic Pipes. <i>Chemistry - A European Journal</i> , 2009, 15, 612-622.	3.3	9
48	Novel Dinuclear Half-Titanocene-Producing Styrene/Ethylene Copolymers Containing Syndiotactic Styrene/Styrene Sequences. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 785-789.	2.2	9
49	Kinetics of in situ robust chain-ends crosslinked polymeric networks formed using catalyst- and solvent-free Huisgen cycloaddition reaction. <i>Macromolecular Research</i> , 2017, 25, 249-254.	2.4	9
50	Micro-hydrogel Particles Consisting of Hyperbranched Polyamidoamine for the Removal of Heavy Metal Ions from Water. <i>Scientific Reports</i> , 2017, 7, 10012.	3.3	9
51	Transparent poly(amide-imide)s containing trifluoromethyl groups with high glass transition temperature. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1782-1786.	2.3	9
52	Soluble para-linked aromatic polyamides with pendent groups. <i>Macromolecular Research</i> , 2015, 23, 838-843.	2.4	8
53	Synthesis of coil-comb block copolymers containing polystyrene coil and poly(methyl methacrylate) side chains via atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2971-2983.	2.3	8
54	Bio-based poly(pentamethylene sebacamide) by solid-state polymerization from bio-based monomers. <i>Green Chemistry</i> , 2021, 23, 6469-6476.	9.0	8

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55	Synthesis and characterization of wholly aromatic polyamides containing pendent amino and cyano groups. <i>Polymer Bulletin</i> , 1997, 38, 635-642.	3.3	7
56	Polymerization of allylbenzene with metallocene catalysts. <i>Polymer Bulletin</i> , 1999, 42, 265-272.	3.3	7
57	A new photoresist based on hyperbranched poly(arylene ether phosphine oxide). <i>Polymer Bulletin</i> , 2003, 49, 349-355.	3.3	7
58	Poly(arylene thioether) synthesis via nitro-displacement reaction. <i>Journal of Polymer Science Part A</i> , 2006, 44, 2440-2447.	2.3	7
59	Sequence-controlled ethylene/vinyl cinnamate copolymers: Synthesis and application to the photoalignment of liquid crystals. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5401-5406.	2.3	6
60	Synthesis of Poly(arylene ether amine)s from a Monomer Containing an Electron-Donating Amine Group in a Nucleophilic Aromatic Substitution Reaction. <i>Macromolecular Rapid Communications</i> , 2005, 26, 52-56.	3.9	6
61	Synthesis of poly(arylene thioether)s from protected dithiols and aromatic difluorides with an organic base. <i>Journal of Polymer Science Part A</i> , 2005, 43, 2021-2027.	2.3	6
62	Electro-Optical and Electrochemical Properties of Poly(phenylacetylene). <i>Molecular Crystals and Liquid Crystals</i> , 2009, 513, 293-300.	0.9	6
63	New soluble polyamides and polyimides containing polar functional groups: pendent pyrazole rings with amino and cyano groups. <i>Designed Monomers and Polymers</i> , 2016, 19, 227-235.	1.6	6
64	Nanoporous poly(ether sulfone) from polylactide-b-poly(ether sulfone)-b-polylactide precursor. <i>Polymer</i> , 2019, 180, 121704.	3.8	6
65	Copper Ions Removal from Water using A2B3 Type Hyperbranched Poly(amidoamine) Hydrogel Particles. <i>Molecules</i> , 2019, 24, 3866.	3.8	6
66	Synthesis and characterization of aromatic poly(ether sulfone)s with pendent benzoyl groups. <i>Polymer Bulletin</i> , 1998, 41, 631-637.	3.3	5
67	Living Polymerization of N,N-Diphenylacrylamide with Triisobutylaluminum. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1499-1503.	3.9	5
68	Electrochemical Properties of Ionic Conjugated Polymer with Azobenzene Moieties. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 462, 189-195.	0.9	5
69	Globular Organization of Multifunctional Linear Homopolymer Using Trifunctional Molecules. <i>Macromolecules</i> , 2007, 40, 4267-4275.	4.8	5
70	Synthesis and Characterization of Water-Soluble Ionic Conjugated Polyacetylene. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 530, 56/[212]-63/[219].	0.9	5
71	Synthesis and Characterization of Poly(2-ethynyl-N-perfluorobenzoylpyridinium chloride). <i>Molecular Crystals and Liquid Crystals</i> , 2013, 584, 94-102.	0.9	5
72	Rigid-Rod Polyamides from 3,3'-bis(trifluoromethyl)-4,4'-diaminodiphenyl. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1341-1347.	2.2	5

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73	Synthesis of Polyamide Dendrons Bearing Pyridine Groups as Multiple Hydrogen Bonding Parts on the Periphery. <i>Polymer Journal</i> , 2004, 36, 513-518.	2.7	4
74	Electrooptical and electrochemical properties of an ionic conjugated polymer, poly(2-ethynylpyridinium-N-benzoylsulfonate). <i>Russian Journal of Physical Chemistry A</i> , 2008, 82, 1447-1450.	0.6	4
75	Electrochemical Properties of a Self-Dopable Ionic Conjugated Polymer: Poly[2-ethynyl-N-(4-sulfobutyl)pyridinium betaine]. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 492, 229/[593]-236/[600].	0.9	4
76	Internal Bias Field in Ferroelectric Polymer Thin Film for Nonvolatile Memory Applications. <i>IEEE Electron Device Letters</i> , 2010, 31, 482-484.	3.9	4
77	Synthesis of triarylamine-based alternating copolymers for polymeric solar cell. <i>Polymer</i> , 2014, 55, 4837-4845.	3.8	4
78	Synthesis and characterization of a polyacetylene derivative: Poly(N-methylpropargylamine). <i>Molecular Crystals and Liquid Crystals</i> , 2018, 662, 32-37.	0.9	4
79	Simple method to analyze the molecular weight of polymers using cyclic voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129305.	7.8	4
80	Poly (Amidehydrazide) Hydrogel Particles for Removal of Cu ²⁺ and Cd ²⁺ Ions from Water. <i>Gels</i> , 2021, 7, 121.	4.5	4
81	Soluble and transparent poly(amide-imide)s with ultra-low coefficients of thermal expansion. <i>Polymer</i> , 2022, 247, 124813.	3.8	4
82	Dielectric Properties of Poly(enaminonitrile)s. <i>Polymer Journal</i> , 2000, 32, 57-61.	2.7	3
83	Characterization of Polysiloxane Modified Polysilsesquioxane Films for Low Dielectric Applications: Microstructure, Electrical Properties and Mechanical Properties. <i>Materials Research Society Symposia Proceedings</i> , 2002, 716, 7151.	0.1	3
84	Electro-optical and electrochemical properties of poly(1-hexyne). <i>Fibers and Polymers</i> , 2011, 12, 291-295.	2.1	3
85	Preparation and characterization of imide-grafted poly(ethersulfone)s. <i>Macromolecular Research</i> , 2011, 19, 321-325.	2.4	3
86	Synthesis of an ionic polyacetylene derivative via phosphorus oxychloride-activated polymerization of 2-ethynylpyridine. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 644, 227-233.	0.9	3
87	Lysine-cyclodipeptide-based polyamidoamine microparticles: Balance between the efficiency of copper ion removal and degradation in water. <i>Chemical Engineering Journal</i> , 2020, 391, 123493.	12.7	3
88	Shape-controlled mesoporous melamine-formaldehyde polymers by solvent-assisted curing. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8025-8030.	10.3	3
89	Synthesis of poly(arylene ether ketone)s containing amide side groups via nitro displacement reaction. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 2717-2721.	2.2	2
90	Preparation, Structural and Spectral Properties of Poly(2-ethynylbenzyl alcohol). <i>Molecular Crystals and Liquid Crystals</i> , 2009, 513, 196-204.	0.9	2

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91	Synthesis and self-assembly of partially sulfonated poly(arylene ether sulfone)s and their role in the formation of Cu ₂ S nanowires. RSC Advances, 2015, 5, 53611-53617.	3.6	2
92	Synthesis of an Ionic Polyacetylene Derivative via the Non-catalyst Polymerization of 2-Ethynylpyridine Using 4-(Bromomethyl)-7-methoxycoumarin. Molecular Crystals and Liquid Crystals, 2015, 618, 21-29.	0.9	2
93	Grafting of trifluoromethylated poly(phenylene oxide)s on a single-walled carbon nanotube via surface-initiated chain-growth condensation polymerization. Journal of Polymer Science Part A, 2017, 55, 3180-3184.	2.3	2
94	Electro-optical and electrochemical properties of poly[2-ethynyl-N-(\pm -isobutryl)pyridinium bromide]. Molecular Crystals and Liquid Crystals, 2020, 706, 30-37.	0.9	2
95	Synthesis of regiocontrolled triarylamine-based polymer with a naphthol unit. Polymer Bulletin, 2021, 78, 965-979.	3.3	2
96	Synthesis of Poly(arylene ether ketone)s containing Unsymmetrical Pyridyl Ether Linkages. Polymer Bulletin, 2006, 56, 129-135.	3.3	1
97	Synthesis of triarylamine-containing poly(arylene ether)s by nucleophilic aromatic substitution reaction. Journal of Polymer Science Part A, 2014, 52, 2692-2702.	2.3	1
98	Determination of the hydrogenation state of benzene by the thermally induced phase separation of Poly(ethersulfone). Polymer, 2021, 230, 124105.	3.8	1
99	Incorporation effects of fluorinated side groups into polyimide membranes on their physical and gas permeation properties. , 2000, 77, 2756.		1
100	Highly Transparent Aromatic Polyamides from Unsymmetrical Diamine with Trifluoromethyl Groups. Polymers, 2022, 14, 501.	4.5	1
101	Soluble Poly(amide-imide)s from Diamide-Diamine Monomer with Trifluoromethyl Groups. Polymers, 2022, 14, 624.	4.5	1
102	A polyacetylene based polyelectrolyte via non-catalyst polymerization of 2-ethynylpyridine and 3,4-dimethoxy benzoyl chloride. Molecular Crystals and Liquid Crystals, 0, , 1-8.	0.9	1
103	Crystals and Liquid Crystals, 0, , 1-8.	0.9	1
104	Synthesis of Arylene Ether-Type Hyperbranched Poly(triphenylamine) for Lithium Battery Cathodes. Materials, 2021, 14, 7885.	2.9	1
105	Synthesis and characterization of poly(2-ethynyl-N-iodopyridinium tetraphenylborate). Molecular Crystals and Liquid Crystals, 2019, 678, 114-120.	0.9	0
106	Synthesis and Properties of Fluorinated Polyimides from Rigid and Twisted Bis(Trifluoromethyl)Benzidine for Flexible Electronics. , 0, , .		0