Sung Chul Hong

List of Publications by Year
in descending order

50 papers	1,358 citations	19 h-index (394421)	36 g-index (345221)
50 all docs	50 docs citations	50 times ranked	1446 citing authors

#	Article	IF	Citations
1	Polyolefin graft copolymers via living polymerization techniques: Preparation of poly(n-butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf atom transfer radical polymerization. Journal of Polymer Science Part A, 2002, 40, 2736-2749.	2.3	110
2	Structural Evolution of Poly(acrylonitrile-<i>co</i>-itaconic acid) during Thermal Oxidative Stabilization for Carbon Materials. Macromolecules, 2013, 46, 5882-5889.	4.8	102
3	Preparation of vegetable oil-based polyols with controlled hydroxyl functionalities for thermoplastic polyurethane. European Polymer Journal, 2016, 78, 46-60.	5.4	95
4	Carbon Dioxide-Based Polyols as Sustainable Feedstock of Thermoplastic Polyurethane for Corrosion-Resistant Metal Coating. ACS Sustainable Chemistry and Engineering, 2017, 5, 3871-3881.	6.7	87
5	An Immobilized/Soluble Hybrid Catalyst System for Atom Transfer Radical Polymerization. Macromolecules, 2001, 34, 5099-5102.	4.8	80
6	Efficient and quantitative chemical transformation of vegetable oils to polyols through a thiol-ene reaction for thermoplastic polyurethanes. Industrial Crops and Products, 2016, 87, 78-88.	5.2	68
7	Preparation of Polyisobutene-graft-Poly(methyl methacrylate) and Polyisobutene-graft-Polystyrene with Different Compositions and Side Chain Architectures through Atom Transfer Radical Polymerization (ATRP). Macromolecular Chemistry and Physics, 2001, 202, 3392-3402.	2.2	64
8	Functional soybean oil-based polyols as sustainable feedstocks for polyurethane coatings. Industrial Crops and Products, 2018, 113, 249-258.	5.2	57
9	Vegetable oil-based polyols for sustainable polyurethanes. Macromolecular Research, 2015, 23, 1079-1086.	2.4	55
10	Effect of controlled tacticity of polyacrylonitrile (co)polymers on their thermal oxidative stabilization behaviors and the properties of resulting carbon films. Carbon, 2017, 121, 502-511.	10.3	51
11	Controlled architectures of poly(acrylonitrile-co-itaconic acid) for efficient structural transformation into carbon materials. Carbon, 2014, 69, 571-581.	10.3	43
12	Synthesis of Bis(indolyl)methanes Using Hyper-Cross-Linked Polyaromatic Spheres Decorated with Bromomethyl Groups as Efficient and Recyclable Catalysts. ACS Omega, 2018, 3, 2242-2253.	3.5	43
13	Concurrent Initiation by Air in the Atom Transfer Radical Polymerization of Methyl Methacrylate. Macromolecular Chemistry and Physics, 2003, 204, 1151-1159.	2.2	42
14	Preparation and mechanical properties of poly(vinyl chloride)/bamboo flour composites with a novel block copolymer as a coupling agent. Journal of Applied Polymer Science, 2008, 108, 2654-2659.	2.6	40
15	Pyrene-containing polystyrene segmented copolymer from nitroxide mediated polymerization and its application for the noncovalent functionalization of as-prepared multiwalled carbon nanotubes. European Polymer Journal, 2008, 44, 3087-3095.	5.4	33
16	Immobilized Me2Si(C5Me4)(N-tBu)TiCl2/(nBuCp)2ZrCl2 hybrid metallocene catalyst system for the production of poly(ethylene-co-hexene) with pseudo-bimodal molecular weight and inverse comonomer distribution. Polymer Engineering and Science, 2007, 47, 131-139.	3.1	24
17	Facile and scalable fabrication of transparent and high performance Pt/reduced graphene oxide hybrid counter electrode for dye-sensitized solar cells. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1193-1199.	2.2	24
18	Synthesis of biobased polyols using algae oil for multifunctional polyurethane coatings. Green Materials, 2018, 6, 165-177.	2.1	22

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19	All-Polycarbonate Graft Copolymers with Tunable Morphologies by Metal-Free Copolymerization of CO₂ with Epoxides. Macromolecules, 2021, 54, 6144-6152.	4.8	21
20	Synthesis of Stimuli-Responsive Heterofunctional Dendrimer by Passerini Multicomponent Reaction. ACS Omega, 2019, 4, 6660-6668.	3.5	20
21	Nonedible Vegetable Oil-Based Polyols in Anticorrosive and Antimicrobial Polyurethane Coatings. Polymers, 2021, 13, 3149.	4.5	20
22	Core/shell structured carbon nanofiber/platinum nanoparticle hybrid web as a counter electrode for dye-sensitized solar cell. Journal of Industrial and Engineering Chemistry, 2017, 52, 211-217.	5.8	19
23	Effect of dicarbonyl complexing agents on double metal cyanide catalysts toward copolymerization of CO2 and propylene oxide. Catalysis Today, 2021, 375, 335-342.	4.4	18
24	Facile Room-Temperature Preparation of Flexible Polyurethane Foams from Carbon Dioxide Based Poly(ether carbonate) Polyols with a Reduced Generation of Acetaldehyde. ACS Omega, 2019, 4, 7944-7952.	3.5	17
25	Synergistic effect of comonomers on the thermal oxidative stabilization of polyacrylonitrile copolymers for carbon materials. Polymer Degradation and Stability, 2019, 161, 191-197.	5.8	16
26	Characteristics of dye-sensitized solar cells with surface-modified multi-walled carbon nanotubes as counter electrodes. Journal of Materials Science, 2013, 48, 906-912.	3.7	15
27	Functionalization of Multi-Walled Carbon Nanotubes with Poly(2-ethyl-2-oxazoline). Macromolecular Symposia, 2007, 249-250, 270-275.	0.7	14
28	UV-cross-linked block copolymers for initiator-free, controlled in situ gelation of electrolytes in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 18854.	6.7	14
29	Controlled Hydroxyl Functionality of Soybean Oil-Based Polyols for Polyurethane Coatings with Improved Anticorrosion Properties. Macromolecular Research, 2018, 26, 696-703.	2.4	13
30	Tripleâ€Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400477.	19.5	12
31	Facile preparation of thermoplastic elastomer with high service temperature from dry selective curing of compatibilized EPDM/polyamide-12 blends. European Polymer Journal, 2015, 66, 367-375.	5.4	12
32	Chemical transformation of renewable algae oil to polyetheramide polyols for polyurethane coatings. Progress in Organic Coatings, 2021, 151, 106084.	3.9	11
33	Study on the grafting of polystyrene onto ethylene-propylene-diene terpolymer through reversible addition and fragmentation chain transfer technique. Macromolecular Research, 2010, 18, 927-934.	2.4	10
34	Carbon Dioxide Based Poly(ether carbonate) Polyol in Bi-polyol Mixtures for Rigid Polyurethane Foams. Journal of Polymers and the Environment, 2020, 28, 1160-1168.	5.0	10
35	Study on the Functionalization of Multi-Walled Carbon Nanotube with Monoamine Terminated Poly(ethylene oxide). Macromolecular Symposia, 2007, 249-250, 276-282.	0.7	9
36	An efficient chain transfer reaction of the trithiocarbonate unit as a tool to prepare a functional polyolefin: a post-polymerization modification of ethyleneâ€“propyleneâ€“diene terpolymer for improved oil resistance. Polymer Chemistry, 2017, 8, 3307-3316.	3.9	9

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37	Identifying the role of the acidic comonomer in poly(acrylonitrile-co-itaconic acid) during stabilization process through low temperature electron beam irradiation. Polymer Degradation and Stability, 2018, 153, 220-226.	5.8	9
38	Dispersion controlled platinum/multi-walled carbon nanotube hybrid for counter electrodes of dye-sensitized solar cells. Macromolecular Research, 2014, 22, 397-404.	2.4	8
39	Effect of different itaconic acid contents of poly(acrylonitrile-co-itaconic acid)s on their carbonization behaviors at elevated temperatures. Polymer Degradation and Stability, 2020, 181, 109373.	5.8	8
40	Study on Immobilized Metallocene and Single-Site Catalysts for the Preparation of Ultra-High Molecular Weight Polyethylene at Various Polymerization Conditions. Polymer-Plastics Technology and Engineering, 2011, 50, 1557-1563.	1.9	7
41	Large scale vertical implantation of crystalline titania nanotube arrays. Journal of Industrial and Engineering Chemistry, 2011, 17, 813-817.	5.8	6
42	Compositional elements of thermoplastic polyurethanes for reducing the generation of acetaldehyde during thermo-oxidative degradation. Polymer Testing, 2018, 68, 279-286.	4.8	4
43	Porous composite separator membranes of dye-sensitized solar cells with flexible substrate for their improved stability. Journal of Materials Science, 2018, 53, 12365-12373.	3.7	4
44	Effect of Poly(2-ethyl-2-oxazoline) on Multi-Walled Carbon Nanotubes Reinforced Poly(vinyl alcohol) Composites. Polymers and Polymer Composites, 2010, 18, 251-256.	1.9	3
45	Application of block copolymeric surface modifier with crosslinkable units for montmorillonite nanocomposites. Journal of Applied Polymer Science, 2013, 127, 690-698.	2.6	2
46	Facile, scalable, and universal modification strategy of polyolefin utilizing noncatalytic C H insertion capability of azide: Sulfonyl azide end-functionalized polystyrene to modify polyethylene. European Polymer Journal, 2021, 161, 110863.	5.4	2
47	Combinations of dual-function azide-containing crosslinkers with C-H insertion capabilities for polymeric elastomers with improved adhesion properties. European Polymer Journal, 2022, 162, 110906.	5.4	2
48	Heterogeneous catalyst SiO2â€“LaCl3Â·7H2O: characterization and microwave-assisted green synthesis of Î±-aminophosphonates and their antimicrobial activity. Molecular Diversity, 2022, , 1.	3.9	2
49	Solar Cells: Triple-Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dye-Sensitized Solar Cells (Adv. Energy Mater. 13/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	19.5	1
50	Characteristics of the surface modification of montmorillonite with a bifunctional block copolymer. Polymer Composites, 2013, 34, 1640-1647.	4.6	0