

# Sung Chul Hong

## List of Publications by Year in descending order

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50  
papers

1,358  
citations

394421

19  
h-index

345221

36  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combinations of dual-function azide-containing crosslinkers with C-H insertion capabilities for polymeric elastomers with improved adhesion properties. <i>European Polymer Journal</i> , 2022, 162, 110906.	5.4	2
2	Heterogeneous catalyst SiO <sub>2</sub> •LaCl <sub>3</sub> •7H <sub>2</sub> O: characterization and microwave-assisted green synthesis of $\beta$ -aminophosphonates and their antimicrobial activity. <i>Molecular Diversity</i> , 2022, , 1.	3.9	2
3	Chemical transformation of renewable algae oil to polyetheramide polyols for polyurethane coatings. <i>Progress in Organic Coatings</i> , 2021, 151, 106084.	3.9	11
4	Effect of dicarbonyl complexing agents on double metal cyanide catalysts toward copolymerization of CO <sub>2</sub> and propylene oxide. <i>Catalysis Today</i> , 2021, 375, 335-342.	4.4	18
5	All-Polycarbonate Graft Copolymers with Tunable Morphologies by Metal-Free Copolymerization of CO <sub>2</sub> with Epoxides. <i>Macromolecules</i> , 2021, 54, 6144-6152.	4.8	21
6	Nonedible Vegetable Oil-Based Polyols in Anticorrosive and Antimicrobial Polyurethane Coatings. <i>Polymers</i> , 2021, 13, 3149.	4.5	20
7	Facile, scalable, and universal modification strategy of polyolefin utilizing noncatalytic C H insertion capability of azide: Sulfonyl azide end-functionalized polystyrene to modify polyethylene. <i>European Polymer Journal</i> , 2021, 161, 110863.	5.4	2
8	Effect of different itaconic acid contents of poly(acrylonitrile-co-itaconic acid)s on their carbonization behaviors at elevated temperatures. <i>Polymer Degradation and Stability</i> , 2020, 181, 109373.	5.8	8
9	Carbon Dioxide Based Poly(ether carbonate) Polyol in Bi-polyol Mixtures for Rigid Polyurethane Foams. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1160-1168.	5.0	10
10	Synergistic effect of comonomers on the thermal oxidative stabilization of polyacrylonitrile copolymers for carbon materials. <i>Polymer Degradation and Stability</i> , 2019, 161, 191-197.	5.8	16
11	Facile Room-Temperature Preparation of Flexible Polyurethane Foams from Carbon Dioxide Based Poly(ether carbonate) Polyols with a Reduced Generation of Acetaldehyde. <i>ACS Omega</i> , 2019, 4, 7944-7952.	3.5	17
12	Synthesis of Stimuli-Responsive Heterofunctional Dendrimer by Passerini Multicomponent Reaction. <i>ACS Omega</i> , 2019, 4, 6660-6668.	3.5	20
13	Synthesis of Bis(indolyl)methanes Using Hyper-Cross-Linked Polyaromatic Spheres Decorated with Bromomethyl Groups as Efficient and Recyclable Catalysts. <i>ACS Omega</i> , 2018, 3, 2242-2253.	3.5	43
14	Compositional elements of thermoplastic polyurethanes for reducing the generation of acetaldehyde during thermo-oxidative degradation. <i>Polymer Testing</i> , 2018, 68, 279-286.	4.8	4
15	Functional soybean oil-based polyols as sustainable feedstocks for polyurethane coatings. <i>Industrial Crops and Products</i> , 2018, 113, 249-258.	5.2	57
16	Synthesis of biobased polyols using algae oil for multifunctional polyurethane coatings. <i>Green Materials</i> , 2018, 6, 165-177.	2.1	22
17	Controlled Hydroxyl Functionality of Soybean Oil-Based Polyols for Polyurethane Coatings with Improved Anticorrosion Properties. <i>Macromolecular Research</i> , 2018, 26, 696-703.	2.4	13
18	Porous composite separator membranes of dye-sensitized solar cells with flexible substrate for their improved stability. <i>Journal of Materials Science</i> , 2018, 53, 12365-12373.	3.7	4

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19	Identifying the role of the acidic comonomer in poly(acrylonitrile-co-itaconic acid) during stabilization process through low temperature electron beam irradiation. <i>Polymer Degradation and Stability</i> , 2018, 153, 220-226.	5.8	9
20	Carbon Dioxide-Based Polyols as Sustainable Feedstock of Thermoplastic Polyurethane for Corrosion-Resistant Metal Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3871-3881.	6.7	87
21	An efficient chain transfer reaction of the trithiocarbonate unit as a tool to prepare a functional polyolefin: a post-polymerization modification of ethylene- <i>propylene</i> -diene terpolymer for improved oil resistance. <i>Polymer Chemistry</i> , 2017, 8, 3307-3316.	3.9	9
22	Core/shell structured carbon nanofiber/platinum nanoparticle hybrid web as a counter electrode for dye-sensitized solar cell. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 211-217.	5.8	19
23	Effect of controlled tacticity of polyacrylonitrile (co)polymers on their thermal oxidative stabilization behaviors and the properties of resulting carbon films. <i>Carbon</i> , 2017, 121, 502-511.	10.3	51
24	Efficient and quantitative chemical transformation of vegetable oils to polyols through a thiol-ene reaction for thermoplastic polyurethanes. <i>Industrial Crops and Products</i> , 2016, 87, 78-88.	5.2	68
25	Preparation of vegetable oil-based polyols with controlled hydroxyl functionalities for thermoplastic polyurethane. <i>European Polymer Journal</i> , 2016, 78, 46-60.	5.4	95
26	Facile preparation of thermoplastic elastomer with high service temperature from dry selective curing of compatibilized EPDM/polyamide-12 blends. <i>European Polymer Journal</i> , 2015, 66, 367-375.	5.4	12
27	Vegetable oil-based polyols for sustainable polyurethanes. <i>Macromolecular Research</i> , 2015, 23, 1079-1086.	2.4	55
28	Controlled architectures of poly(acrylonitrile-co-itaconic acid) for efficient structural transformation into carbon materials. <i>Carbon</i> , 2014, 69, 571-581.	10.3	43
29	Dispersion controlled platinum/multi-walled carbon nanotube hybrid for counter electrodes of dye-sensitized solar cells. <i>Macromolecular Research</i> , 2014, 22, 397-404.	2.4	8
30	Solar Cells: Triple-Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dye-Sensitized Solar Cells ( <i>Adv. Energy Mater.</i> 13/2014). <i>Advanced Energy Materials</i> , 2014, 4, n/a-n/a.	19.5	1
31	Triple-Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400477.	19.5	12
32	Facile and scalable fabrication of transparent and high performance Pt/reduced graphene oxide hybrid counter electrode for dye-sensitized solar cells. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1193-1199.	2.2	24
33	Application of block copolymeric surface modifier with crosslinkable units for montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 127, 690-698.	2.6	2
34	Structural Evolution of Poly(acrylonitrile-co-itaconic acid) during Thermal Oxidative Stabilization for Carbon Materials. <i>Macromolecules</i> , 2013, 46, 5882-5889.	4.8	102
35	Characteristics of dye-sensitized solar cells with surface-modified multi-walled carbon nanotubes as counter electrodes. <i>Journal of Materials Science</i> , 2013, 48, 906-912.	3.7	15
36	Characteristics of the surface modification of montmorillonite with a bifunctional block copolymer. <i>Polymer Composites</i> , 2013, 34, 1640-1647.	4.6	0

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37	UV-cross-linked block copolymers for initiator-free, controlled in situ gelation of electrolytes in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18854.	6.7	14
38	Large scale vertical implantation of crystalline titania nanotube arrays. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 813-817.	5.8	6
39	Study on Immobilized Metallocene and Single-Site Catalysts for the Preparation of Ultra-High Molecular Weight Polyethylene at Various Polymerization Conditions. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 1557-1563.	1.9	7
40	Study on the grafting of polystyrene onto ethylene-propylene-diene terpolymer through reversible addition and fragmentation chain transfer technique. <i>Macromolecular Research</i> , 2010, 18, 927-934.	2.4	10
41	Effect of Poly(2-ethyl-2-oxazoline) on Multi-Walled Carbon Nanotubes Reinforced Poly(vinyl alcohol) Composites. <i>Polymers and Polymer Composites</i> , 2010, 18, 251-256.	1.9	3
42	Preparation and mechanical properties of poly(vinyl chloride)/bamboo flour composites with a novel block copolymer as a coupling agent. <i>Journal of Applied Polymer Science</i> , 2008, 108, 2654-2659.	2.6	40
43	Pyrene-containing polystyrene segmented copolymer from nitroxide mediated polymerization and its application for the noncovalent functionalization of as-prepared multiwalled carbon nanotubes. <i>European Polymer Journal</i> , 2008, 44, 3087-3095.	5.4	33
44	Functionalization of Multi-Walled Carbon Nanotubes with Poly(2-ethyl-2-oxazoline). <i>Macromolecular Symposia</i> , 2007, 249-250, 270-275.	0.7	14
45	Study on the Functionalization of Multi-Walled Carbon Nanotube with Monoamine Terminated Poly(ethylene oxide). <i>Macromolecular Symposia</i> , 2007, 249-250, 276-282.	0.7	9
46	Immobilized Me <sub>2</sub> Si(C <sub>5</sub> Me <sub>4</sub> )(N-tBu)TiCl <sub>2</sub> /(nBuCp) <sub>2</sub> ZrCl <sub>2</sub> hybrid metallocene catalyst system for the production of poly(ethylene-co-hexene) with pseudo-bimodal molecular weight and inverse comonomer distribution. <i>Polymer Engineering and Science</i> , 2007, 47, 131-139.	3.1	24
47	Concurrent Initiation by Air in the Atom Transfer Radical Polymerization of Methyl Methacrylate. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1151-1159.	2.2	42
48	Polyolefin graft copolymers via living polymerization techniques: Preparation of poly(n-butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2002, 40, 2736-2749.	2.3	110
49	An Immobilized/Soluble Hybrid Catalyst System for Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2001, 34, 5099-5102.	4.8	80
50	Preparation of Polyisobutene-graft-Poly(methyl methacrylate) and Polyisobutene-graft-Polystyrene with Different Compositions and Side Chain Architectures through Atom Transfer Radical Polymerization (ATRP). <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 3392-3402.	2.2	64