

# Hyeonyeol Jeon

## List of Publications by Year in descending order

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48  
papers

2,034  
citations

279487

23  
h-index

243296

44  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior Toughness and Fast Self-Healing at Room Temperature Engineered by Transparent Elastomers. <i>Advanced Materials</i> , 2018, 30, 1705145.	11.1	532
2	Mechano-responsive hydrogen-bonding array of thermoplastic polyurethane elastomer captures both strength and self-healing. <i>Nature Communications</i> , 2021, 12, 621.	5.8	169
3	Biodegradable, Efficient, and Breathable Multi-Use Face Mask Filter. <i>Advanced Science</i> , 2021, 8, 2003155.	5.6	108
4	Synthesis and characterization of UV-curable ladder-like polysilsesquioxane. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5012-5018.	2.5	86
5	Sustainable and recyclable super engineering thermoplastic from biorenewable monomer. <i>Nature Communications</i> , 2019, 10, 2601.	5.8	83
6	Biorenewable, transparent, and oxygen/moisture barrier nanocellulose/nanochitin-based coating on polypropylene for food packaging applications. <i>Carbohydrate Polymers</i> , 2021, 271, 118421.	5.1	80
7	Facile and fast microwave-assisted fabrication of activated and porous carbon cloth composites with graphene and MnO <sub>2</sub> for flexible asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2018, 280, 9-16.	2.6	69
8	Preparation of synergistically reinforced transparent bio-polycarbonate nanocomposites with highly dispersed cellulose nanocrystals. <i>Green Chemistry</i> , 2019, 21, 5212-5221.	4.6	58
9	Sustainable, self-cleaning, transparent, and moisture/oxygen-barrier coating films for food packaging. <i>Green Chemistry</i> , 2021, 23, 2658-2667.	4.6	53
10	Nonstop Monomer-to-Aramid Nanofiber Synthesis with Remarkable Reinforcement Ability. <i>Macromolecules</i> , 2019, 52, 923-934.	2.2	49
11	Remarkable elasticity and enzymatic degradation of bio-based poly(butylene terephthalate) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021, 164, 4753-4762.	4.6	47
12	Sustainable terpolyester of high T <sub>g</sub> based on bio heterocyclic monomer of dimethyl furan-2,5-dicarboxylate and isosorbide. <i>Polymer</i> , 2017, 132, 122-132.	1.8	46
13	Mechanical properties of thiol-ene UV-curable thermoplastic polysilsesquioxanes. <i>Polymer</i> , 2015, 68, 140-146.	1.8	40
14	Biodegradable nanocomposite of poly(ester-carbonate) and cellulose nanocrystals for tough tear-resistant disposable bags. <i>Green Chemistry</i> , 2021, 23, 2293-2299.	4.6	40
15	Trans crystallization behavior and strong reinforcement effect of cellulose nanocrystals on reinforced poly(butylene succinate) nanocomposites. <i>RSC Advances</i> , 2018, 8, 15389-15398.	1.7	37
16	Biodegradable chito-beads replacing non-biodegradable microplastics for cosmetics. <i>Green Chemistry</i> , 2021, 23, 6953-6965.	4.6	37
17	Fast and Scalable Hydrodynamic Synthesis of MnO <sub>2</sub> /Defect-Free Graphene Nanocomposites with High Rate Capability and Long Cycle Life. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35250-35259.	4.0	34
18	Highly reinforced poly(butylene succinate) nanocomposites prepared from chitosan nanowhiskers by in-situ polymerization. <i>International Journal of Biological Macromolecules</i> , 2021, 173, 128-135.	3.6	31

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19	Tunable Solubility Parameter of Poly(3-hexyl thiophene) with Hydrophobic Side-Chains to Achieve Rubbery Conjugated Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1290-1297.	4.0	28
20	Butanol-mediated oven-drying of nanocellulose with enhanced dehydration rate and aqueous re-dispersion. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	28
21	Scalable Water-Based Production of Highly Conductive 2D Nanosheets with Ultrahigh Volumetric Capacitance and Rate Capability. <i>Advanced Energy Materials</i> , 2018, 8, 1800227.	10.2	26
22	Skin-Inspired Hydrogel-Elastomer Hybrid Forms a Seamless Interface by Autonomous Hetero-Self-Healing. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5352-5357.	2.0	25
23	Aramid Nanofiber Templated In Situ S <sub>N</sub> Ar Polymerization for Maximizing the Performance of All-Organic Nanocomposites. <i>ACS Macro Letters</i> , 2020, 9, 558-564.	2.3	25
24	Hydraulic Power Manufacturing for Highly Scalable and Stable 2D Nanosheet Dispersions and Their Film Electrode Application. <i>Advanced Functional Materials</i> , 2018, 28, 1802952.	7.8	24
25	Morphology and electrical properties of polymethylmethacrylate/poly(styrene-co-acrylonitrile)/multi-walled carbon nanotube nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011, 121, 743-749.	1.3	22
26	Synthesis and characterization of organic-inorganic hybrid block copolymers containing a fully condensed ladder-like polyphenylsilsesquioxane. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4563-4570.	2.5	22
27	Environmentally-Friendly Synthesis of Carbonate-Type Macrodiols and Preparation of Transparent Self-Healable Thermoplastic Polyurethanes. <i>Polymers</i> , 2017, 9, 663.	2.0	22
28	Rheological criteria for distinguishing self-healing and non-self-healing hydrogels. <i>Polymer</i> , 2021, 229, 123969.	1.8	22
29	Tuning the interface between poly(vinylidene fluoride)/UV-curable polysilsesquioxane hybrid composites: Compatibility, thermal, mechanical, electrical, and surface properties. <i>Polymer</i> , 2015, 77, 167-176.	1.8	20
30	Precisely controlled two-step synthesis of cellulose-graft-poly(L-lactide) copolymers: Effects of graft chain length on thermal behavior. <i>Polymer Degradation and Stability</i> , 2017, 142, 226-233.	2.7	19
31	Analysis of volatile organic compounds produced during incineration of non-degradable and biodegradable plastics. <i>Chemosphere</i> , 2022, 303, 134946.	4.2	17
32	A Physicochemical Approach Toward Extending Conjugation and the Ordering of Solution-Processable Semiconducting Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4819-4827.	4.0	16
33	Tamper-Proof Time-Temperature Indicator for Inspecting Ultracold Supply Chain. <i>ACS Omega</i> , 2021, 6, 8598-8604.	1.6	15
34	Study on the Synthetic Characteristics of Biomass-Derived Isosorbide-Based Poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	1.7	14
35	Sustainable Poly(butylene adipate-co-furanoate) Composites with Sulfated Chitin Nanowhiskers: Synergy Leading to Superior Robustness and Improved Biodegradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8411-8422.	3.2	12
36	Large-scale Fast Fluid Dynamic Processes for the Syntheses of 2D Nanohybrids of Metal Nanoparticle-Deposited Boron Nitride Nanosheet and Their Glycolysis of Poly(ethylene terephthalate). <i>Advanced Materials Interfaces</i> , 2020, 7, 2000599.	1.9	11

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37	Crystallization derivation of amine functionalized T 12 polyhedral oligomeric silsesquioxane-conjugated poly(ethylene terephthalate). <i>Composites Science and Technology</i> , 2017, 146, 42-48.	3.8	9
38	Preparation of Self-Healable and Spinnable Hydrogel by Dynamic Boronate Ester Bond from Hyperbranched Polyglycerol and Boronic Acid-Containing Polymer. <i>Macromolecular Research</i> , 2021, 29, 140-148.	1.0	8
39	A sensitive environmental forensic method that determines bisphenol S and A exposure within receipt-handling through fingerprint analysis. <i>Journal of Hazardous Materials</i> , 2022, 424, 127410.	6.5	7
40	Fluid Dynamics-Induced Surface Engineering for Holey and Stable Metallic MoS <sub>2</sub> Nanosheets with High Pseudocapacitance and Ultrafast Rate Capability. <i>ACS Applied Energy Materials</i> , 2020, 3, 12078-12087.	2.5	6
41	Preparation of highly emissive, thermally stable, UV-cured polysilsesquioxane/ZnO nanoparticle composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
42	Air-Processable Silane-Coupled Polymers to Modify a Dielectric for Solution-Processed Organic Semiconductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5274-5280.	4.0	4
43	Preparation of Hierarchically Structured Amorphous Carbon Monoliths with Closed Spherical Mesopores via the Lower Critical Solution Temperature Phase Transition. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900165.	1.1	1
44	Thermal, Optical, and Film Properties of a Ladder-like Polysilsesquioxane as Flexible Electronic Device Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1436, 17.	0.1	0
45	2D Nanosheets: Hydraulic Power Manufacturing for Highly Scalable and Stable 2D Nanosheet Dispersions and Their Film Electrode Application ( <i>Adv. Funct. Mater.</i> 43/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870307.	7.8	0
46	Supercapacitors: Scalable Water-Based Production of Highly Conductive 2D Nanosheets with Ultrahigh Volumetric Capacitance and Rate Capability ( <i>Adv. Energy Mater.</i> 18/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870084.	10.2	0
47	Fluid Dynamic Reactors: Large-Scale Fast Fluid Dynamic Processes for the Syntheses of 2D Nano hybrids of Metal Nanoparticle-Deposited Boron Nitride Nanosheet and Their Glycolysis of Poly(ethylene Terephthalate) Overlaid	1.0784314	0
48	Properties of Eco-friendly Acrylic Resin/Clay Nanocomposites Prepared by Non-aqueous Dispersion (NAD) Polymerization. <i>Korean Chemical Engineering Research</i> , 2016, 54, 120-126.	0.2	0