

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
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52
all docs

52
docs citations

52
times ranked

2347
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Analysis of volatile organic compounds produced during incineration of non-degradable and biodegradable plastics. <i>Chemosphere</i> , 2022, 303, 134946.	4.2	17
3	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
4	Biodegradable, Efficient, and Breathable Multi-Use Face Mask Filter. <i>Advanced Science</i> , 2021, 8, 2003155.	5.6	108
5	Biodegradable chito-beads replacing non-biodegradable microplastics for cosmetics. <i>Green Chemistry</i> , 2021, 23, 6953-6965.	4.6	37
6	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
7	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
8	Sustainable, self-cleaning, transparent, and moisture/oxygen-barrier coating films for food packaging. <i>Green Chemistry</i> , 2021, 23, 2658-2667.	4.6	53
9	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
10	Tamper-Proof Time-Temperature Indicator for Inspecting Ultracold Supply Chain. <i>ACS Omega</i> , 2021, 6, 8598-8604.	1.6	15
11	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
12	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
13	Rheological criteria for distinguishing self-healing and non-self-healing hydrogels. <i>Polymer</i> , 2021, 229, 123969.	1.8	22
14	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
15	Remarkable elasticity and enzymatic degradation of bio-based poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (adli	4.6	47
16	Fluid Dynamic Reactors: 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) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.9	11
17	Fluid Dynamics-Induced Surface Engineering for Holey and Stable Metallic MoS ₂ Nanosheets with High Pseudocapacitance and Ultrafast Rate Capability. <i>ACS Applied Energy Materials</i> , 2020, 3, 12078-12087.	2.5	6
18	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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19	Aramid Nanofiber Templated In Situ S _N Ar Polymerization for Maximizing the Performance of All-Organic Nanocomposites. ACS Macro Letters, 2020, 9, 558-564.	2.3	25
20	Preparation of synergistically reinforced transparent bio-polycarbonate nanocomposites with highly dispersed cellulose nanocrystals. Green Chemistry, 2019, 21, 5212-5221.	4.6	58
21	Study on the Synthetic Characteristics of Biomass-Derived Isosorbide-Based Poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlock 14	1.7	14
22	Preparation of Hierarchically Structured Amorphous Carbon Monoliths with Closed Spherical Mesopores via the Lower Critical Solution Temperature Phase Transition. Macromolecular Chemistry and Physics, 2019, 220, 1900165.	1.1	1
23	Sustainable and recyclable super engineering thermoplastic from biorenewable monomer. Nature Communications, 2019, 10, 2601.	5.8	83
24	Nonstop Monomer-to-Aramid Nanofiber Synthesis with Remarkable Reinforcement Ability. Macromolecules, 2019, 52, 923-934.	2.2	49
25	Scalable Water-Based Production of Highly Conductive 2D Nanosheets with Ultrahigh Volumetric Capacitance and Rate Capability. Advanced Energy Materials, 2018, 8, 1800227.	10.2	26
26	Butanol-mediated oven-drying of nanocellulose with enhanced dehydration rate and aqueous re-dispersion. Journal of Polymer Research, 2018, 25, 1.	1.2	28
27	Superior Toughness and Fast Self-Healing at Room Temperature Engineered by Transparent Elastomers. Advanced Materials, 2018, 30, 1705145.	11.1	532
28	2D Nanosheets: Hydraulic Power Manufacturing for Highly Scalable and Stable 2D Nanosheet Dispersions and Their Film Electrode Application (Adv. Funct. Mater. 43/2018). Advanced Functional Materials, 2018, 28, 1870307.	7.8	0
29	Fast and Scalable Hydrodynamic Synthesis of MnO ₂ /Defect-Free Graphene Nanocomposites with High Rate Capability and Long Cycle Life. ACS Applied Materials & Interfaces, 2018, 10, 35250-35259.	4.0	34
30	Facile and fast microwave-assisted fabrication of activated and porous carbon cloth composites with graphene and MnO ₂ for flexible asymmetric supercapacitors. Electrochimica Acta, 2018, 280, 9-16.	2.6	69
31	Supercapacitors: Scalable Water-Based Production of Highly Conductive 2D Nanosheets with Ultrahigh Volumetric Capacitance and Rate Capability (Adv. Energy Mater. 18/2018). Advanced Energy Materials, 2018, 8, 1870084.	10.2	0
32	Trans crystallization behavior and strong reinforcement effect of cellulose nanocrystals on reinforced poly(butylene succinate) nanocomposites. RSC Advances, 2018, 8, 15389-15398.	1.7	37
33	Hydraulic Power Manufacturing for Highly Scalable and Stable 2D Nanosheet Dispersions and Their Film Electrode Application. Advanced Functional Materials, 2018, 28, 1802952.	7.8	24
34	Crystallization derivation of amine functionalized T 12 polyhedral oligomeric silsesquioxane-conjugated poly(ethylene terephthalate). Composites Science and Technology, 2017, 146, 42-48.	3.8	9
35	Sustainable terpolyester of high T _g based on bio heterocyclic monomer of dimethyl furan-2,5-dicarboxylate and isosorbide. Polymer, 2017, 132, 122-132.	1.8	46
36	Precisely controlled two-step synthesis of cellulose-graft-poly(L-lactide) copolymers: Effects of graft chain length on thermal behavior. Polymer Degradation and Stability, 2017, 142, 226-233.	2.7	19

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37	Environmentally-Friendly Synthesis of Carbonate-Type Macrodiols and Preparation of Transparent Self-Healable Thermoplastic Polyurethanes. <i>Polymers</i> , 2017, 9, 663.	2.0	22
38	A Physicochemical Approach Toward Extending Conjugation and the Ordering of Solution-Processable Semiconducting Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4819-4827.	4.0	16
39	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
40	Preparation of highly emissive, thermally stable, <sc>UV</sc>-cured polysilsesquioxane/ZnO nanoparticle composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
41	Mechanical properties of thiol-ene UV-curable thermoplastic polysilsesquioxanes. <i>Polymer</i> , 2015, 68, 140-146.	1.8	40
42	Tunable Solubility Parameter of Poly(3-hexyl thiophene) with Hydrophobic Side-Chains to Achieve Rubbery Conjugated Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1290-1297.	4.0	28
43	Air-Processable Silane-Coupled Polymers to Modify a Dielectric for Solution-Processed Organic Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5274-5280.	4.0	4
44	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
45	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
46	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
47	Synthesis and characterization of UV-curable ladder-like polysilsesquioxane. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5012-5018.	2.5	86
48	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