Dai-Soo Lee

List of Publications by Year
in descending order

38 papers	949 citations	623574 14 h-index	454834 30 g-index
38 all docs	38 docs citations	38 times ranked	1245 citing authors

#	Article	IF	Citations
1	Nanocomposites of Rigid Polyurethane Foam and Graphene Nanoplates Obtained by Exfoliation of Natural Graphite in Polymeric 4,4â€²-Diphenylmethane Diisocyanate. Nanomaterials, 2022, 12, 685.	1.9	9
2	Rationally Designed Eugenol-Based Chain Extender for Self-Healing Polyurethane Elastomers. ACS Omega, 2021, 6, 28848-28858.	1.6	4
3	Self-Healing and Mechanical Properties of Thermoplastic Polyurethane/Eugenol-Based Phenoxy Resin Blends via Exchange Reactions. Polymers, 2020, 12, 1011.	2.0	5
4	Thermally Healable and Recyclable Graphene-Nanoplate/Epoxy Composites Via an In-Situ Diels-Alder Reaction on the Graphene-Nanoplate Surface. Polymers, 2019, 11, 1057.	2.0	9
5	Characteristics of Self-Healable Copolymers of Styrene and Eugenol Terminated Polyurethane Prepolymer. Polymers, 2019, 11, 1674.	2.0	7
6	Effect of Molecular Weight of Poly(tetramethylene glycol) on Waterborne Polyurethane Dispersion Coating Gloss. Bulletin of the Korean Chemical Society, 2019, 40, 1046-1049.	1.0	8
7	Introduction of Reversible Urethane Bonds Based on Vanillyl Alcohol for Efficient Self-Healing of Polyurethane Elastomers. Molecules, 2019, 24, 2201.	1.7	12
8	Synthesis and Characterization of Healable Waterborne Polyurethanes with Cystamine Chain Extenders. Molecules, 2019, 24, 1492.	1.7	16
9	Sustainable rigid polyurethane foams based on recycled polyols from chemical recycling of waste polyurethane foams. Journal of Applied Polymer Science, 2019, 136, 47916.	1.3	38
10	Preparation and Characterization of Isosorbide-Based Self-Healable Polyurethane Elastomers with Thermally Reversible Bonds. Molecules, 2019, 24, 1061.	1.7	14
11	High-Performance Adhesives Based on Maleic Anhydride-g-EPDM Rubbers and Polybutene for Laminating Cast Polypropylene Film and Aluminum Foil. Coatings, 2019, 9, 61.	1.2	9
12	Thermally Self-Healing Graphene-Nanoplate/Polyurethane Nanocomposites via Dielsâ€“Alder Reaction through a One-Shot Process. Nanomaterials, 2019, 9, 434.	1.9	16
13	Self-Healing and Rheological Properties of Polyhydroxyurethane Elastomers Based on Glycerol Carbonate Capped Prepolymers. Macromolecular Research, 2019, 27, 460-469.	1.0	8
14	Large Improvement in the Mechanical Properties of Polyurethane Nanocomposites Based on a Highly Concentrated Graphite Nanoplate/Polyol Masterbatch. Nanomaterials, 2019, 9, 389.	1.9	13
15	Synthesis of Self-Healing Waterborne Polyurethane Systems Chain Extended with Chitosan. Polymers, 2019, 11, 503.	2.0	12
16	Effects of Isosorbide Incorporation into Flexible Polyurethane Foams: Reversible Urethane Linkages and Antioxidant Activity. Molecules, 2019, 24, 1347.	1.7	9
17	Self-healing of cross-linked PU via dual-dynamic covalent bonds of a Schiff base from cystine and vanillin. Materials and Design, 2019, 172, 107774.	3.3	143
18	Rheological Properties and Thermal Conductivity of Epoxy Resins Filled with a Mixture of Alumina and Boron Nitride. Polymers, 2019, 11, 597.	2.0	38

#	Article	IF	Citations
19	Thermal Healing, Reshaping and Ecofriendly Recycling of Epoxy Resin Crosslinked with Schiff Base of Vanillin and Hexane-1,6-Diamine. Polymers, 2019, 11, 293.	2.0	68
20	Chemical Recycling of Used Printed Circuit Board Scraps: Recovery and Utilization of Organic Products. Processes, 2019, 7, 22.	1.3	16
21	Liquid crystalline epoxy resin with improved thermal conductivity by intermolecular dipoleâ€“dipole interactions. Journal of Polymer Science Part A, 2019, 57, 708-715.	2.5	52
22	Design of Azomethine Diols for Efficient Self-Healing of Strong Polyurethane Elastomers. Molecules, 2018, 23, 2928.	1.7	5
23	Sorbitol as a Chain Extender of Polyurethane Prepolymers to Prepare Self-Healable and Robust Polyhydroxyurethane Elastomers. Molecules, 2018, 23, 2515.	1.7	15
24	Controllable Surface and Optical Properties of Methacrylic Copolymer Films Using Various Monomer Combinations. Langmuir, 2018, 34, 11850-11856.	1.6	4
25	Development of High Performance Polyurethane Elastomers Using Vanillin-Based Green Polyol Chain Extender Originating from Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2017, 5, 4582-4588.	3.2	92
26	The Effects of in Situ-Formed Silver Nanoparticles on the Electrical Properties of Epoxy Resin Filled with Silver Nanowires. Polymers, 2016, 8, 157.	2.0	8
27	Effects of functional groups on the graphene sheet for improving theÂthermomechanical properties of polyurethane nanocomposites. Composites Part B: Engineering, 2015, 78, 192-201.	5.9	88
28	High performance polyurethane nanocomposite films prepared from a masterbatch of graphene oxide in polyether polyol. Chemical Engineering Journal, 2014, 253, 356-365.	6.6	100
29	Craphene based composites as a counter electrode for dye-sensitized solar cells. , 2012, , .		1
30	Preparation and properties of epoxy resin/silicone hybrids for electronic applications. , 2009, , .		3
31	Preparation and Properties of Pyreneâ€Modified Multiâ€•Walled Carbon Nanotube/Epoxy Resin Nanocomposites. Macromolecular Symposia, 2008, 264, 100-106.	0.4	5
32	Effect of Poly(4-Styrene Sulfonic Acid) on the Surface Resistivities of Sulfonated Poly(Styrene-B-Ethylenebutylene-B-Styrene) Filled with Multiwalled Carbon Nanotubes (MWNTs) for Antistatic Coating and EMI Shielding. , 2007, , .		1
33	Effect of calcite and calcite/zeolite hybrid fillers on LLDPE and PP composites. Advances in Polymer Technology, 2004, 23, 230-238.	0.8	17
34	Linear low density polyethylene (LLDPE)/zeolite microporous composite film. Macromolecular Research, 2003, 11, 357-367.	1.0	14
35	Characteristics of polyimide ultrafine fibers prepared through electrospinning. Polymer International, 2003, 52, 429-432.	1.6	54
36	Thermal Properties of Ester Based Thermoplastic Polyurethane/ Polyester Ionomer Blends. Polymer Journal, 2003, 35, 79-83.	1.3	6

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37	Effect of polymerization procedure on thermal and mechanical properties of polyether based thermoplastic polyurethanes. Macromolecular Research, 2002, 10, 365-368.	1.0	22
38	Curing behaviour of unsaturated polyester resins based on recycled poly(ethylene terephthalate) (RPET): effects of RPET content and glycol type. Polymer International, 1997, 44, 143-148.	1.6	8