

Dai-Soo Lee

List of Publications by Year in descending order

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38
papers

949
citations

623574

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454834

30
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38
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docs citations

38
times ranked

1245
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-healing of cross-linked PU via dual-dynamic covalent bonds of a Schiff base from cystine and vanillin. <i>Materials and Design</i> , 2019, 172, 107774.	3.3	143
2	High performance polyurethane nanocomposite films prepared from a masterbatch of graphene oxide in polyether polyol. <i>Chemical Engineering Journal</i> , 2014, 253, 356-365.	6.6	100
3	Development of High Performance Polyurethane Elastomers Using Vanillin-Based Green Polyol Chain Extender Originating from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4582-4588.	3.2	92
4	Effects of functional groups on the graphene sheet for improving the thermomechanical properties of polyurethane nanocomposites. <i>Composites Part B: Engineering</i> , 2015, 78, 192-201.	5.9	88
5	Thermal Healing, Reshaping and Ecofriendly Recycling of Epoxy Resin Crosslinked with Schiff Base of Vanillin and Hexane-1,6-Diamine. <i>Polymers</i> , 2019, 11, 293.	2.0	68
6	Characteristics of polyimide ultrafine fibers prepared through electrospinning. <i>Polymer International</i> , 2003, 52, 429-432.	1.6	54
7	Liquid crystalline epoxy resin with improved thermal conductivity by intermolecular dipole-dipole interactions. <i>Journal of Polymer Science Part A</i> , 2019, 57, 708-715.	2.5	52
8	Sustainable rigid polyurethane foams based on recycled polyols from chemical recycling of waste polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47916.	1.3	38
9	Rheological Properties and Thermal Conductivity of Epoxy Resins Filled with a Mixture of Alumina and Boron Nitride. <i>Polymers</i> , 2019, 11, 597.	2.0	38
10	Effect of polymerization procedure on thermal and mechanical properties of polyether based thermoplastic polyurethanes. <i>Macromolecular Research</i> , 2002, 10, 365-368.	1.0	22
11	Effect of calcite and calcite/zeolite hybrid fillers on LLDPE and PP composites. <i>Advances in Polymer Technology</i> , 2004, 23, 230-238.	0.8	17
12	Synthesis and Characterization of Healable Waterborne Polyurethanes with Cystamine Chain Extenders. <i>Molecules</i> , 2019, 24, 1492.	1.7	16
13	Thermally Self-Healing Graphene-Nanoplate/Polyurethane Nanocomposites via Diels-Alder Reaction through a One-Shot Process. <i>Nanomaterials</i> , 2019, 9, 434.	1.9	16
14	Chemical Recycling of Used Printed Circuit Board Scraps: Recovery and Utilization of Organic Products. <i>Processes</i> , 2019, 7, 22.	1.3	16
15	Sorbitol as a Chain Extender of Polyurethane Prepolymers to Prepare Self-Healable and Robust Polyhydroxyurethane Elastomers. <i>Molecules</i> , 2018, 23, 2515.	1.7	15
16	Linear low density polyethylene (LLDPE)/zeolite microporous composite film. <i>Macromolecular Research</i> , 2003, 11, 357-367.	1.0	14
17	Preparation and Characterization of Isosorbide-Based Self-Healable Polyurethane Elastomers with Thermally Reversible Bonds. <i>Molecules</i> , 2019, 24, 1061.	1.7	14
18	Large Improvement in the Mechanical Properties of Polyurethane Nanocomposites Based on a Highly Concentrated Graphite Nanoplate/Polyol Masterbatch. <i>Nanomaterials</i> , 2019, 9, 389.	1.9	13

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19	Introduction of Reversible Urethane Bonds Based on Vanillyl Alcohol for Efficient Self-Healing of Polyurethane Elastomers. <i>Molecules</i> , 2019, 24, 2201.	1.7	12
20	Synthesis of Self-Healing Waterborne Polyurethane Systems Chain Extended with Chitosan. <i>Polymers</i> , 2019, 11, 503.	2.0	12
21	Thermally Healable and Recyclable Graphene-Nanoplate/Epoxy Composites Via an In-Situ Diels-Alder Reaction on the Graphene-Nanoplate Surface. <i>Polymers</i> , 2019, 11, 1057.	2.0	9
22	High-Performance Adhesives Based on Maleic Anhydride-g-EPDM Rubbers and Polybutene for Laminating Cast Polypropylene Film and Aluminum Foil. <i>Coatings</i> , 2019, 9, 61.	1.2	9
23	Effects of Isosorbide Incorporation into Flexible Polyurethane Foams: Reversible Urethane Linkages and Antioxidant Activity. <i>Molecules</i> , 2019, 24, 1347.	1.7	9
24	Nanocomposites of Rigid Polyurethane Foam and Graphene Nanoplates Obtained by Exfoliation of Natural Graphite in Polymeric 4,4'-Diphenylmethane Diisocyanate. <i>Nanomaterials</i> , 2022, 12, 685.	1.9	9
25	Curing behaviour of unsaturated polyester resins based on recycled poly(ethylene terephthalate) (RPET): effects of RPET content and glycol type. <i>Polymer International</i> , 1997, 44, 143-148.	1.6	8
26	The Effects of in Situ-Formed Silver Nanoparticles on the Electrical Properties of Epoxy Resin Filled with Silver Nanowires. <i>Polymers</i> , 2016, 8, 157.	2.0	8
27	Effect of Molecular Weight of Poly(tetramethylene glycol) on Waterborne Polyurethane Dispersion Coating Gloss. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 1046-1049.	1.0	8
28	Self-Healing and Rheological Properties of Polyhydroxyurethane Elastomers Based on Glycerol Carbonate Capped Prepolymers. <i>Macromolecular Research</i> , 2019, 27, 460-469.	1.0	8
29	Characteristics of Self-Healable Copolymers of Styrene and Eugenol Terminated Polyurethane Prepolymer. <i>Polymers</i> , 2019, 11, 1674.	2.0	7
30	Thermal Properties of Ester Based Thermoplastic Polyurethane/ Polyester Ionomer Blends. <i>Polymer Journal</i> , 2003, 35, 79-83.	1.3	6
31	Preparation and Properties of Pyrene-Modified Multi-Walled Carbon Nanotube/Epoxy Resin Nanocomposites. <i>Macromolecular Symposia</i> , 2008, 264, 100-106.	0.4	5
32	Design of Azomethine Diols for Efficient Self-Healing of Strong Polyurethane Elastomers. <i>Molecules</i> , 2018, 23, 2928.	1.7	5
33	Self-Healing and Mechanical Properties of Thermoplastic Polyurethane/Eugenol-Based Phenoxy Resin Blends via Exchange Reactions. <i>Polymers</i> , 2020, 12, 1011.	2.0	5
34	Controllable Surface and Optical Properties of Methacrylic Copolymer Films Using Various Monomer Combinations. <i>Langmuir</i> , 2018, 34, 11850-11856.	1.6	4
35	Rationally Designed Eugenol-Based Chain Extender for Self-Healing Polyurethane Elastomers. <i>ACS Omega</i> , 2021, 6, 28848-28858.	1.6	4
36	Preparation and properties of epoxy resin/silicone hybrids for electronic applications. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
37	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
38	Crphene based composites as a counter electrode for dye-sensitized solar cells. , 2012, , .		1