

Chang Youngwook

List of Publications by Year in descending order

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papers

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304743
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all docs

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docs citations

61
times ranked

1889
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal, mechanical and rheological properties of poly (lactic acid)/epoxidized soybean oil blends. Polymer Bulletin, 2009, 62, 91-98.	3.3	157
2	Preparation and properties of EPDM/organomontmorillonite hybrid nanocomposites. Polymer International, 2002, 51, 319-324.	3.1	132
3	Poly(vinyl alcohol) (PVA)/sulfonated polyhedral oligosilsesquioxane (sPOSS) hybrid membranes for direct methanol fuel cell applications. Polymers for Advanced Technologies, 2007, 18, 535-543.	3.2	83
4	Toward Record-High Stiffness in Polyurethane Nanocomposites Using Aramid Nanofibers. Journal of Physical Chemistry C, 2015, 119, 27467-27477.	3.1	80
5	Preparation and properties of acrylonitrile-butadiene copolymer hybrid nanocomposites with organoclays. Polymer International, 2003, 52, 1359-1364.	3.1	66
6	Effects of trans-polyoctylene rubber (TOR) on the properties of NR/EPDM blends. Journal of Applied Polymer Science, 1999, 73, 749-756.	2.6	61
7	Thermal, mechanical, and rheological properties of poly(ϵ -caprolactone)/halloysite nanotube nanocomposites. Journal of Applied Polymer Science, 2013, 128, 2807-2816.	2.6	58
8	The Mechanical Deformation Process of Electrospun Polymer Nanocomposite Fibers. Macromolecular Rapid Communications, 2005, 26, 728-733.	3.9	56
9	Preparation of polyethylene-octene elastomer/clay nanocomposite and microcellular foam processed in supercritical carbon dioxide. Polymer International, 2006, 55, 184-189.	3.1	54
10	Poly(butylene terephthalate)-clay nanocomposites prepared by melt intercalation: morphology and thermomechanical properties. Polymer International, 2005, 54, 348-353.	3.1	52
11	Preparation and properties of styrene-ethylene/butylene-styrene (SEBS)-clay hybrids. Polymer International, 2004, 53, 1047-1051.	3.1	47
12	Mechanical, thermal, barrier, and rheological properties of poly(ether-block-amide) elastomer/organoclay nanocomposite prepared by melt blending. Polymer Engineering and Science, 2013, 53, 982-991.	3.1	44
13	Triple-shape memory effects of modified semicrystalline ethylene-propylene diene rubber/poly(ϵ -caprolactone) blends. European Polymer Journal, 2015, 70, 306-316.	5.4	42
14	Thermal and mechanical properties of poly(ϵ -caprolactone)/polyhedral oligomeric silsesquioxane nanocomposites. Polymer International, 2013, 62, 64-70.	3.1	36
15	Mechanical properties and heat shrinkability of electron beam crosslinked polyethylene-octene copolymer. Radiation Physics and Chemistry, 2008, 77, 675-679.	2.8	34
16	Supramolecular hydrogen-bonded polyolefin elastomer/modified graphene nanocomposites with near infrared responsive shape memory and healing properties. European Polymer Journal, 2015, 66, 273-281.	5.4	33
17	The effect of peroxide crosslinking on thermal, mechanical, and rheological properties of polycaprolactone/epoxidized natural rubber blends. Polymer Bulletin, 2011, 66, 673-681.	3.3	28
18	Preparation and characterization of rubber-toughened poly(trimethylene terephthalate)/organoclay nanocomposite. Polymer Engineering and Science, 2007, 47, 863-870.	3.1	26

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19	Structural evolution of poly(ether-b-amide) elastomers during the uniaxial stretching: An in situ wide-angle X-ray scattering study. <i>Macromolecular Research</i> , 2012, 20, 725-731.	2.4	26
20	Crosslinked poly(ethylene glycol) (PEG)/sulfonated polyhedral oligosilsesquioxane (sPOSS) hybrid membranes for direct methanol fuel cell applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 730-735.	5.8	25
21	Factors affecting the dispersion of montmorillonite in LLDPE nanocomposite. <i>Polymer Bulletin</i> , 2005, 55, 385-392.	3.3	24
22	Biodegradable nanocomposites from maleated polycaprolactone/soy protein isolate blend with organoclay: Preparation, characterization, and properties. <i>Polymer Composites</i> , 2009, 30, 708-714.	4.6	24
23	Preparation and characterization of shape memory polymer networks based on carboxylated telechelic poly(ϵ -caprolactone)/epoxidized natural rubber blends. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 256-260.	5.8	24
24	Biodegradable shape-memory poly(ϵ -caprolactone)/polyhedral oligomeric silsesquioxane nanocomposites: sustained drug release and hydrolytic degradation. <i>Materials Letters</i> , 2016, 166, 125-128.	2.6	22
25	Thermomechanical properties and shape memory effect of epoxidized natural rubber crosslinked by 3-amino-1,2,4-triazole. <i>Polymer International</i> , 2007, 56, 694-698.	3.1	21
26	Ethylene-propylene-diene terpolymer/halloysite nanocomposites: Thermal, mechanical properties, and foam processing. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	20
27	Peroxide vulcanized EPDM rubber/polyhedral oligomeric silsesquioxane nanocomposites: Vulcanization behavior, mechanical properties, and thermal stability. <i>Polymer Engineering and Science</i> , 2015, 55, 2814-2820.	3.1	20
28	Poly(ethylene oxide)/graphene oxide nanocomposites: structure, properties and shape memory behavior. <i>Polymer Bulletin</i> , 2015, 72, 1937-1948.	3.3	19
29	Preparation and Characterization of Edible Films Based on Soy Protein Isolate-Fatty Acid Blends. <i>Polymer-Plastics Technology and Engineering</i> , 2008, 47, 466-472.	1.9	18
30	Effect of supramolecular hydrogen bonded network on the properties of maleated ethylene propylene diene rubber/maleated high density polyethylene blend based thermoplastic elastomer. <i>Materials Letters</i> , 2006, 60, 3118-3121.	2.6	17
31	Thermoplastic vulcanizate nanocomposites based on thermoplastic polyurethane and millable polyurethane blends reinforced with organoclay prepared by melt intercalation technique: Optimization of processing parameters via statistical methods. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1405-1416.	2.6	16
32	Thermomechanical properties of ethylene-propylene-diene terpolymer/organoclay nanocomposites and foam processing in supercritical carbon dioxide. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1779-1784.	2.7	15
33	Pd nanoparticles dispersed on solid supports: synthesis, characterization and catalytic activity on selective hydrogenation of olefins in aqueous media. <i>Applied Organometallic Chemistry</i> , 2011, 25, 1-8.	3.5	15
34	Preparation of supramolecular thermally repairable elastomer by crosslinking of maleated polyethylene-octene elastomer with 3-amino-1,2,4-triazole. <i>Polymer International</i> , 2014, 63, 1936-1943.	3.1	15
35	Influences of trans-polyoctylene rubber on the physical properties and phase morphology of natural rubber/acrylonitrile-butadiene rubber blends. <i>Journal of Applied Polymer Science</i> , 2002, 86, 125-134.	2.6	14
36	Preparation and properties of polyethylene-octene elastomer (POE)/organoclay nanocomposites. <i>Polymer Bulletin</i> , 2012, 68, 483-492.	3.3	14

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37	Study on the Synthetic Characteristics of Biomass-Derived Isosorbide-Based Poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.8	14
38	Specific heats of rubber compounds. Journal of Applied Polymer Science, 1999, 72, 1513-1522.	2.6	13
39	Nanocomposites based on thermoplastic polyurethane, millable polyurethane, and organoclay: effect of organoclay content. High Performance Polymers, 2014, 26, 609-617.	1.8	13
40	UV curable transparent urethane-acrylate/clay nanocomposite coating materials with thermal barrier property. Surface and Coatings Technology, 2013, 232, 182-187.	4.8	11
41	Designing self-crosslinkable ternary blends using epoxidized natural rubber (ENR)/poly(ethylene-co-acrylic acid)(EAA)/poly(l- μ -caprolactone) (PCL) demonstrating triple-shape memory behavior. European Polymer Journal, 2021, 152, 110488.	5.4	11
42	From Hazardous Waste to Green Applications: Selective Surface Functionalization of Waste Cigarette Filters for High-Performance Robust Triboelectric Nanogenerators and CO ₂ Adsorbents. ACS Applied Materials & Interfaces, 2022, 14, 31973-31985.	8.0	11
43	Compatibilizing effects of polypropylene-g-itaconic acid on the polypropylene composites. Fibers and Polymers, 2016, 17, 671-677.	2.1	10
44	Fatigue crack growth behavior of NR and HNBR based vulcanizates with potential application to track pad for heavy weight vehicles. Macromolecular Research, 2003, 11, 73-79.	2.4	9
45	Supramolecular thermoplastic elastomer with thermally scratch repairable effect from 3-aminobenzotriazole crosslinked maleated polyethylene-co-ene elastomer/nylon 12 blends. Journal of Applied Polymer Science, 2015, 132, .	2.6	9
46	Morphological, thermal, rheological, and mechanical properties of PP/EVOH blends compatibilized with PP-g-AA. Polymer Engineering and Science, 2016, 56, 1240-1247.	3.1	9
47	Shape memory thermoplastic elastomer from maleated polyolefin elastomer and nylon 12 blends. Polymer Bulletin, 2014, 71, 625-635.	3.3	8
48	Supramolecular semicrystalline polyolefin elastomer blends with triple-shape memory effects. Polymer International, 2016, 65, 577-583.	3.1	8
49	In Vitro and In Vivo Biosafety Analysis of Resorbable Polyglycolic Acid-Polylactic Acid Block Copolymer Composites for Spinal Fixation. Polymers, 2021, 13, 29.	4.5	8
50	Toughness and fracture mechanisms of glass fiber/aluminum hybrid laminates under tensile loading. Journal of Mechanical Science and Technology, 2007, 21, 1937-1947.	1.5	7
51	Morphology, Mechanical Properties and Shape Memory Effects of Polyamide12/Polyolefin Elastomer Blends Compatibilized by Glycidylisobutyl POSS. Materials, 2021, 14, 27.	2.9	7
52	Elastomeric Nanodielectrics for Soft and Hysteresis-Free Electronics. Advanced Materials, 2021, 33, e2104761.	21.0	7
53	Itaconic acid-based superabsorbent polymer with high gel strength and biocompatibility. Polymer International, 2022, 71, 1090-1098.	3.1	7
54	Novel itaconic acid-based superabsorbent polymer with improved gel strength and salt resistance using 2-acrylamido-2-methyl-1-propanesulfonic acid. Polymers for Advanced Technologies, 2022, 33, 392-399.	3.2	6

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55	Soy protein isolate — furfural cross-linked nanocomposites for controlled release of cefadroxil. International Journal of Plastics Technology, 2009, 13, 8-21.	3.1	5
56	Reprocessable and healable ethylene copolymer/f-rGO nanocomposites crosslinked by Diels-Alder adducts with infrared- and thermo-responsive behavior. Polymer Testing, 2021, 104, 107383.	4.8	4
57	Near-Infrared Light-Responsive Shape Memory Polymer Fabricated from Reactive Melt Blending of Semicrystalline Maleated Polyolefin Elastomer and Polyaniline. Polymers, 2021, 13, 3984.	4.5	4
58	Heat Shrinkable Behaviour of Supramolecular Hydrogen Bonded Maleated Ethylene Propylene Diene Rubber and Maleated High Density Polyethylene Blend. Polymer-Plastics Technology and Engineering, 2007, 46, 585-589.	1.9	2
59	Shape memory polymer blends of syndiotactic 1,2-polybutadiene and trans-polyoctenamer. Polymer Bulletin, 2017, 74, 2535-2544.	3.3	2
60	Effects of trans-6-polyoctylene rubber (TOR) on the properties of NR/EPDM blends. Journal of Applied Polymer Science, 1999, 73, 749-756.	2.6	2
61	Nanocomposites based on thermoplastic polyurethane, millable polyurethane and organoclay: Effect of matrix composition and dynamic vulcanization. Journal of Applied Polymer Science, 2013, 130, 4014-4023.	2.6	1