Changwoon Nah

List of Publications by Year
in descending order

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41 papers	1,287 citations	361045 20 h-index	360668 35 g-index
42 all docs	42 docs citations	42 times ranked	1210 citing authors

#	Article	IF	Citations
1	Preparation and properties of EPDM/organomontmorillonite hybrid nanocomposites. Polymer International, 2002, 51, 319-324.	1.6	132
2	Flexible thermoplastic polyurethane-carbon nanotube composites for electromagnetic interference shielding and thermal management. Chemical Engineering Journal, 2021, 418, 129282.	6.6	100
3	Influence of clay on the vulcanization kinetics of fluoroelastomer nanocomposites. Polymer, 2004, 45, 2237-2247.	1.8	95
4	Carbon nanotube-reinforced elastomeric nanocomposites: a review. International Journal of Smart and Nano Materials, 2015, 6, 211-238.	2.0	81
5	Vulcanization kinetics of nitrile rubber/layered clay nanocomposites. Journal of Applied Polymer Science, 2005, 98, 1688-1696.	1.3	79
6	Graphene-reinforced elastomeric nanocomposites: A review. Polymer Testing, 2018, 68, 160-184.	2.3	75
7	A study of graphene oxideâ€reinforced rubber nanocomposite. Journal of Applied Polymer Science, 2014, 131, .	1.3	66
8	Influence of surface characteristics of carbon blacks on cure and mechanical behaviors of rubber matrix compoundings. Journal of Colloid and Interface Science, 2005, 291, 229-235.	5.0	63
9	Fracture behaviour of acrylonitrile-butadiene rubber/clay nanocomposite. Polymer International, 2001, 50, 1265-1268.	1.6	61
10	Combination effect of carbon nanofiber and ketjen carbon black hybrid nanofillers on mechanical, electrical, and electromagnetic interference shielding properties of chlorinated polyethylene nanocomposites. Composites Part B: Engineering, 2020, 197, 108071.	5.9	51
11	Effects of particle size and structure of carbon blacks on the abrasion of filled elastomer compounds. Journal of Materials Science, 2007, 42, 8391-8399.	1.7	41
12	A comparative study on vulcanization behavior of acrylonitrile-butadiene rubber reinforced with graphene oxide and reduced graphene oxide as fillers. Polymer Testing, 2019, 76, 127-137.	2.3	40
13	Plasma surface modification of silica and its effect on properties of styrene-butadiene rubber compound. Polymer International, 2002, 51, 510-518.	1.6	39
14	Preparation and properties of acrylonitrileâ€“butadiene rubberâ€“graphene nanocomposites. Journal of Applied Polymer Science, 2015, 132, .	1.3	38
15	Effect of graphene on polar and nonpolar rubber matrices. Mechanics of Advanced Materials and Modern Processes, 2018, 4, .	2.2	33
16	Effect of plasticizer and curing system on freezing resistance of rubbers. Journal of Applied Polymer Science, 2014, 131, .	1.3	26
17	Slipping of carbon nanotubes in a rubber matrix. Polymer International, 2011, 60, 42-44.	1.6	23
18	Properties and Degradation of the Gasket Component of a Proton Exchange Membrane Fuel Cellâ€”A Review. Journal of Nanoscience and Nanotechnology, 2012, 12, 7641-7657.	0.9	22

#	Article	IF	Citations
19	Effects of curing systems on the mechanical and chemical ageing resistance properties of gasket compounds based on ethylene-propylene-diene-termonomer rubber in a simulated fuel cell environment. International Journal of Hydrogen Energy, 2015, 40, 10627-10635.	3.8	22
20	Electrical conductivity and electromagnetic interference shielding effectiveness of nanoâ€structured carbon assisted poly(methyl methacrylate) nanocomposites. Polymer Engineering and Science, 2020, 60, 2414-2427.	1.5	22
21	Effects oftrans-polyoctylene rubber on rheological and green tensile properties of natural rubber/acrylonitrile-butadiene rubber blends. Polymer International, 2002, 51, 245-252.	1.6	18
22	Wrinkled elastomers for the highly stretchable electrodes with excellent fatigue resistances. Polymer Testing, 2016, 53, 329-337.	2.3	18
23	Thermally stable bromobutyl rubber with a high crosslinking density based on a 4,4â€²â€bismaleimidodiphenylmethane curing agent. Journal of Applied Polymer Science, 2016, 133, .	1.3	16
24	Influences oftrans-polyoctylene rubber on the physical properties and phase morphology of natural rubber/acrylonitrile-butadiene rubber blends. Journal of Applied Polymer Science, 2002, 86, 125-134.	1.3	14
25	Highly stretchable wrinkled electrode based on silver inkâ€elastomer nanocomposite with excellent fatigue resistance. Polymer Composites, 2020, 41, 2210-2223.	2.3	14
26	Cure characteristics and physico-mechanical properties of a conventional sulphur-cured natural rubber with a novel anti-reversion agent. Journal of Polymer Research, 2016, 23, 1.	1.2	13
27	Amphiphilic block co-polymer and silica reinforced epoxy composite with excellent toughness and delamination resistance for durable electronic packaging application. Polymer, 2022, 245, 124679.	1.8	12
28	Mechanical and thermal properties of rubber composites reinforced by zinc methacrylate and carbon black. Polymer Composites, 2012, 33, 1141-1153.	2.3	11
29	Fabrication and performance of a donutâ€shaped generator based on dielectric elastomer. Journal of Applied Polymer Science, 2014, 131, .	1.3	11
30	Enhancing the efficiency of zinc oxide vulcanization in brominated poly (isobutylene-co-isoprene) rubber using structurally different Bismaleimides. Journal of Polymer Research, 2018, 25, 1.	1.2	10
31	Synergistic effect of 4,4â€²-bis(maleimido) diphenylmethane and zinc oxide on the vulcanization behavior and thermo-mechanical properties of chlorinated isobutylene-isoprene rubber. Polymers for Advanced Technologies, 2017, 28, 742-753.	1.6	9
32	Enhancing the dispersion and adhesion of short aramid fibers in bromoâ€isobutyleneâ€isoprene rubber using maleated polybutadiene resin via coâ€vulcanization with 4, 4â€™ bis(maleimido)diphenylmethane. Polymer Composites, 2019, 40, 2993-3004.	2.3	8
33	Effects of thermal aging on degradation mechanism of flame retardantâ€filled ethyleneâ€“propyleneâ€“diene termonomer compounds. Journal of Applied Polymer Science, 2015, 132, .	1.3	5
34	Mechanical, morphological and thermal properties of short carbon and aramid fibres-filled bromo-isobutylene-isoprene rubber vulcanised with 4, 4â€™ bis(maleimido)diphenylmethane. Plastics, Rubber and Composites, 2019, 48, 115-126.	0.9	5
35	Role of Carbon Black for Enhancing the Mechanical Properties of Short Aramid Fiber Reinforced Ethylene-Acrylic Rubber. Fibers and Polymers, 2020, 21, 127-137.	1.1	4
36	Laser-induced plasma emission spectra of halogens in the helium gas flow and pulsed jet. Analytical Science and Technology, 2013, 26, 235-244.	0.3	4

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37	Effects of trans-polyoctylene rubber on rheological and green tensile properties of natural rubber/acrylonitrileâ€“butadiene rubber blends. , 2002, 51, 245.		3
38	ENHANCING THE REVERSION RESISTANCE, CROSSLINKING DENSITY AND THERMO-MECHANICAL PROPERTIES OF ACCELERATED SULFUR CURED CHLOROBUTYL RUBBER USING 4,4â€²-BIS (MALEIMIDO) DIPHENYL METHANE. Rubber Chemistry and Technology, 0, , .	0.6	2
39	Largeâ€Deformation Behavior of Honeycombâ€Structured Polymer Sheets as a Function of Polar Angle. Macromolecular Chemistry and Physics, 2011, 212, 896-904.	1.1	1
40	Poisson's Ratios of Honeycombâ€Structured Polymer Sheets Under Large Deformation. Macromolecular Chemistry and Physics, 2011, 212, 2275-2280.	1.1	0
41	Thermal conductivity of graphene-polymer composites. , 2022, , 245-273.		0