

Mehdi Razzaghi-Kashani

List of Publications by Year in descending order

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47
papers

937
citations

430754

18
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501076

28
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48
all docs

48
docs citations

48
times ranked

822
citing authors

#	ARTICLE	IF	CITATIONS
1	Vulcanization kinetics of nano-silica filled styrene butadiene rubber. <i>Polymer</i> , 2014, 55, 6426-6434.	1.8	100
2	Actuation behavior of PDMS dielectric elastomer composites containing optimized graphene oxide. <i>Smart Materials and Structures</i> , 2018, 27, 085021.	1.8	62
3	Tuning the Surface Chemistry of Graphene Oxide for Enhanced Dielectric and Actuated Performance of Silicone Rubber Composites. <i>ACS Applied Electronic Materials</i> , 2019, 1, 198-209.	2.0	62
4	Effect of silica particle size on chain dynamics and frictional properties of styrene butadiene rubber nano and micro composites. <i>Polymer</i> , 2014, 55, 2279-2284.	1.8	54
5	Catalytic and networking effects of carbon black on the kinetics and conversion of sulfur vulcanization in styrene butadiene rubber. <i>Soft Matter</i> , 2018, 14, 9194-9208.	1.2	53
6	Aramid short fiber reinforced rubber as a tire tread composite. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1355-1363.	1.3	43
7	Comparative role of Interface in reinforcing mechanisms of Nano silica modified by Silanes and liquid rubber in SBR composites. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	38
8	On the role of nano-silica in the kinetics of peroxide vulcanization of ethylene propylene diene rubber. <i>Polymer</i> , 2017, 133, 8-19.	1.8	31
9	Interfacial and dielectric behavior of polymer nano-composites: Effects of chain stiffness and cohesive energy density. <i>Polymer</i> , 2018, 145, 31-40.	1.8	29
10	Vulcanization kinetics of butyl rubber-clay nanocomposites and its dependence on clay microstructure. <i>Journal of Applied Polymer Science</i> , 2012, 125, E204.	1.3	28
11	The role of interface in gas barrier properties of styrene butadiene rubber-reduced graphene oxide composites. <i>Polymer</i> , 2019, 182, 121816.	1.8	28
12	Effect of the silica-rubber interface on the mechanical, viscoelastic, and tribological behaviors of filled styrene-butadiene rubber vulcanizates. <i>Polymer Journal</i> , 2020, 52, 1223-1234.	1.3	28
13	CONTRIBUTION OF MECHANICAL ENGAGEMENT AND ENERGETIC INTERACTION IN REINFORCEMENT OF SBR-SILANE-TREATED SILICA COMPOSITES. <i>Rubber Chemistry and Technology</i> , 2016, 89, 292-305.	0.6	27
14	Improvements in tribological properties of polyoxymethylene by aramid short fiber and polytetrafluoroethylene. <i>Iranian Polymer Journal (English Edition)</i> , 2013, 22, 53-59.	1.3	22
15	FURTHER EVIDENCE OF FILLER-FILLER MECHANICAL ENGAGEMENT IN RUBBER COMPOUNDS FILLED WITH SILICA TREATED BY LONG-CHAIN SILANE. <i>Rubber Chemistry and Technology</i> , 2017, 90, 508-520.	0.6	22
16	Construction and evaluation of a new tribometer for polymers. <i>Polymer Testing</i> , 2011, 30, 271-276.	2.3	21
17	Self-healing property of epoxy/nanoclay nanocomposite using poly(ethylene-co-methacrylic acid) agent. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 68, 56-61.	3.8	21
18	Prediction of mechanical and fracture properties of rubber composites by microstructural modeling of polymer-filler interfacial effects. <i>Materials and Design</i> , 2017, 115, 348-354.	3.3	21

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19	Interfacial effects on dielectric properties of ethylene propylene rubber-titania nano- and micro-composites. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	18
20	Particle packing in bimodal size carbon black mixtures and its effect on the properties of styrene-butadiene rubber compounds. <i>Polymer Testing</i> , 2019, 78, 106002.	2.3	16
21	Silica-decorated reduced graphene oxide (SiO ₂ @rGO) as hybrid fillers for enhanced dielectric and actuation behavior of polydimethylsiloxane composites. <i>Smart Materials and Structures</i> , 2020, 29, 015028.	1.8	16
22	Mixed-matrix membranes comprising graphene-oxide nanosheets for CO ₂ /CH ₄ separation: A comparison between glassy and rubbery polymer matrices. <i>Polymer Science - Series A</i> , 2016, 58, 801-809.	0.4	15
23	Hydrothermally treated wood as reinforcing filler for natural rubber bio-composites. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	15
24	Modelling reinforcement of rubber with carbon black filler. <i>Plastics, Rubber and Composites</i> , 2007, 36, 47-55.	0.9	11
25	Grafting hydroxy-terminated polybutadiene onto nanosilica surface for styrene butadiene rubber compounds. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4721-4728.	1.3	11
26	NONLINEAR VISCOELASTIC DISSIPATION IN VULCANIZATES CONTAINING CARBON BLACK AND SILANIZED SILICA HYBRID FILLERS. <i>Rubber Chemistry and Technology</i> , 2018, 91, 537-547.	0.6	11
27	Vulcanization kinetics of styrene butadiene rubber reinforced by graphenic particles. <i>SPE Polymers</i> , 2021, 2, 122-133.	1.4	11
28	Comparing styrene butadiene rubber-clay nanocomposites prepared by melt intercalation and latex-coagulation methods. <i>Journal of Applied Polymer Science</i> , 2012, 126, 253-259.	1.3	10
29	Interfacial effects on dielectric properties of polymethylmethacrylate-titania microcomposites and nanocomposites. <i>Polymer Composites</i> , 2017, 38, 1158-1166.	2.3	10
30	Simulation of Surface Flaw Propagation Associated with the Mechanical Fatigue Wear of Elastomers. <i>Rubber Chemistry and Technology</i> , 1998, 71, 214-233.	0.6	9
31	Effects of organo-clay modifier on physical-mechanical properties of butyl-based rubber nano-composites. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2101-2109.	1.3	9
32	Improvements in tribological properties of polyamide 6 by application of aramid pulp. <i>Iranian Polymer Journal (English Edition)</i> , 2015, 24, 329-335.	1.3	9
33	Effects of modified poly(tetrafluoroethylene) on the physical-mechanical and tribological properties of carbon black filled nitrile-butadiene rubber. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50061.	1.3	9
34	Physical-mechanical properties of carbon black-nanoclay composites of butyl rubber as curing bladder compounds. <i>Plastics, Rubber and Composites</i> , 2015, 44, 253-258.	0.9	8
35	The hysteretic contribution of friction for the polished rubber on the concrete surface. <i>Applied Surface Science</i> , 2017, 394, 528-533.	3.1	8
36	The correlation of tear deviation and resistance with the bound rubber content in rubber-silica composites. <i>Polymer Testing</i> , 2020, 90, 106762.	2.3	8

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37	Energy Release Rate for a Crack in a Tilted Block. <i>Rubber Chemistry and Technology</i> , 2000, 73, 818-829.	0.6	7
38	Crack growth resistance in rubber composites with controlled Interface bonding and interphase content. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	7
39	Carbon black/silica hybrid filler networking and its synergistic effects on the performance of styrene-butadiene rubber composites. <i>Polymer Journal</i> , 0, , .	1.3	7
40	Controlling dielectric permittivity and dielectric loss by starch-coated silver nanoparticles in ethylene-propylene rubber. <i>Polymer Composites</i> , 2018, 39, 1303-1310.	2.3	6
41	The role of reduced graphene oxide as a secondary filler in improving the performance of silica-filled styrene-butadiene rubber compounds. <i>Polymer Journal</i> , 0, , .	1.3	4
42	Design, construction, and evaluation of a modified rolling pendulum to measure energy dissipation in rubber. <i>Polymer Testing</i> , 2014, 35, 56-61.	2.3	3
43	Electromechanical performance of polydimethylsiloxane containing reduced graphene oxide grafted by long-chain alkyl silane. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18844-18857.	1.1	3
44	Insights into the compatibility of vegetable-based plasticizers on the performance of filled rubber vulcanizates. <i>Polymer Engineering and Science</i> , 2021, 61, 1379-1391.	1.5	3
45	The effect of nanofiller on electrical and mechanical properties of silicone rubber. <i>International Journal of Nanomanufacturing</i> , 2010, 5, 335.	0.3	1
46	Effects of filler modification and structuring on dielectric enhancement of silicone rubber composites. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
47	Synergy in tribological properties of polyamide 6 containing aramid pulp and irradiated polytetrafluoroethylene hybrid additives. <i>Iranian Polymer Journal (English Edition)</i> , 2021, 30, 613-621.	1.3	1