

# Mehdi Razzaghi-Kashani

## List of Publications by Year in descending order

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47  
papers

937  
citations

430754

18  
h-index

501076

28  
g-index

48  
all docs

48  
docs citations

48  
times ranked

822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of modified poly(tetrafluoroethylene) on the p<sc>hysicoâ€mechanical</sc> and tribological properties of carbonâ€black filled nitrileâ€butadiene rubber. Journal of Applied Polymer Science, 2021, 138, 50061.	1.3	9
2	Insights into the compatibility of vegetableâ€based plasticizers on the performance of filled rubber vulcanizates. Polymer Engineering and Science, 2021, 61, 1379-1391.	1.5	3
3	Vulcanization kinetics of styrene butadiene rubber reinforced by graphenic particles. SPE Polymers, 2021, 2, 122-133.	1.4	11
4	Synergy in tribological properties of polyamide 6 containing aramid pulp and irradiated polytetrafluoroethylene hybrid additives. Iranian Polymer Journal (English Edition), 2021, 30, 613-621.	1.3	1
5	Silica-decorated reduced graphene oxide (SiO<sub>2</sub>@rGO) as hybrid fillers for enhanced dielectric and actuation behavior of polydimethylsiloxane composites. Smart Materials and Structures, 2020, 29, 015028.	1.8	16
6	The correlation of tear deviation and resistance with the bound rubber content in rubber-silica composites. Polymer Testing, 2020, 90, 106762.	2.3	8
7	Electromechanical performance of polydimethylsiloxane containing reduced graphene oxide grafted by long-chain alkyl silane. Journal of Materials Science: Materials in Electronics, 2020, 31, 18844-18857.	1.1	3
8	Effect of the silica-rubber interface on the mechanical, viscoelastic, and tribological behaviors of filled styrene-butadiene rubber vulcanizates. Polymer Journal, 2020, 52, 1223-1234.	1.3	28
9	Particle packing in bimodal size carbon black mixtures and its effect on the properties of styrene-butadiene rubber compounds. Polymer Testing, 2019, 78, 106002.	2.3	16
10	The role of interface in gas barrier properties of styrene butadiene rubber-reduced graphene oxide composites. Polymer, 2019, 182, 121816.	1.8	28
11	Crack growth resistance in rubber composites with controlled Interface bonding and interphase content. Journal of Polymer Research, 2019, 26, 1.	1.2	7
12	Tuning the Surface Chemistry of Graphene Oxide for Enhanced Dielectric and Actuated Performance of Silicone Rubber Composites. ACS Applied Electronic Materials, 2019, 1, 198-209.	2.0	62
13	Hydrothermally treated wood as reinforcing filler for natural rubber bio-composites. Journal of Polymer Research, 2018, 25, 1.	1.2	15
14	Interfacial and dielectric behavior of polymer nano-composites: Effects of chain stiffness and cohesive energy density. Polymer, 2018, 145, 31-40.	1.8	29
15	Controlling dielectric permittivity and dielectric loss by starchâ€coated silver nanoparticles in ethyleneâ€propylene rubber. Polymer Composites, 2018, 39, 1303-1310.	2.3	6
16	Catalytic and networking effects of carbon black on the kinetics and conversion of sulfur vulcanization in styrene butadiene rubber. Soft Matter, 2018, 14, 9194-9208.	1.2	53
17	NONLINEAR VISCOELASTIC DISSIPATION IN VULCANIZATES CONTAINING CARBON BLACK AND SILANIZED SILICA HYBRID FILLERS. Rubber Chemistry and Technology, 2018, 91, 537-547.	0.6	11
18	Actuation behavior of PDMS dielectric elastomer composites containing optimized graphene oxide. Smart Materials and Structures, 2018, 27, 085021.	1.8	62

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19	Interfacial effects on dielectric properties of polymethylmethacrylate/titania microcomposites and nanocomposites. <i>Polymer Composites</i> , 2017, 38, 1158-1166.	2.3	10
20	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
21	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
22	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
23	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
24	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
25	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
26	Mixed-matrix membranes comprising graphene-oxide nanosheets for CO <sub>2</sub> /CH <sub>4</sub> separation: A comparison between glassy and rubbery polymer matrices. <i>Polymer Science - Series A</i> , 2016, 58, 801-809.	0.4	15
27	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
28	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
29	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
30	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
31	Vulcanization kinetics of nano-silica filled styrene butadiene rubber. <i>Polymer</i> , 2014, 55, 6426-6434.	1.8	100
32	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
33	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
34	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
35	Effects of filler modification and structuring on dielectric enhancement of silicone rubber composites. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
36	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

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37	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
38	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
39	Construction and evaluation of a new tribometer for polymers. <i>Polymer Testing</i> , 2011, 30, 271-276.	2.3	21
40	The effect of nanofiller on electrical and mechanical properties of silicone rubber. <i>International Journal of Nanomanufacturing</i> , 2010, 5, 335.	0.3	1
41	Effects of organo-clay modifier on physical/mechanical properties of butyl-based rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2101-2109.	1.3	9
42	Aramid short fiber reinforced rubber as a tire tread composite. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1355-1363.	1.3	43
43	Modelling reinforcement of rubber with carbon black filler. <i>Plastics, Rubber and Composites</i> , 2007, 36, 47-55.	0.9	11
44	Energy Release Rate for a Crack in a Tilted Block. <i>Rubber Chemistry and Technology</i> , 2000, 73, 818-829.	0.6	7
45	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
46	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
47	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