

Mir Hamid Reza Ghoreishy

List of Publications by Year in descending order

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citations

331538

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the parameters of the Prony series in hyper-viscoelastic material models using the finite element method. <i>Materials & Design</i> , 2012, 35, 791-797.	5.1	103
2	Finite Element Modelling of Flow Through a Porous Medium Between Two Parallel Plates Using The Brinkman Equation. <i>Transport in Porous Media</i> , 2006, 63, 71-90.	1.2	56
3	Development of an advanced computer simulation technique for the modeling of rubber curing process. <i>Computational Materials Science</i> , 2009, 47, 539-547.	1.4	52
4	The Effects of Silica/Carbon Black Ratio on the Dynamic Properties of the Tread compounds in Truck Tires. <i>E-Journal of Chemistry</i> , 2012, 9, 1102-1112.	0.4	45
5	XNBR-grafted halloysite nanotube core-shell as a potential compatibilizer for immiscible polymer systems. <i>Applied Surface Science</i> , 2016, 382, 63-72.	3.1	44
6	Fracture toughness and deformation mechanism of un-vulcanized and dynamically vulcanized polypropylene/ethylene propylene diene monomer/graphene nanocomposites. <i>Composites Science and Technology</i> , 2017, 141, 83-98.	3.8	40
7	Effect of nanoclay content and matrix composition on properties and stress-strain behavior of NR/EPDM nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1275-1284.	1.3	36
8	Effects of two types of nanoparticles on the cure, rheological, and mechanical properties of rubber nanocomposites based on the NBR/PVC blends. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47550.	1.3	36
9	Advanced integral isoconversional analysis for evaluating and predicting the kinetic parameters of the curing reaction of epoxy prepreg. <i>Thermochimica Acta</i> , 2013, 557, 37-43.	1.2	35
10	Finite element analysis of a thermoplastic elastomer melt flow in the metering region of a single screw extruder. <i>Computational Materials Science</i> , 2005, 34, 389-396.	1.4	34
11	A state-of-the-art review on the mathematical modeling and computer simulation of rubber vulcanization process. <i>Iranian Polymer Journal (English Edition)</i> , 2016, 25, 89-109.	1.3	34
12	Oxidative coupling of methane in a fixed bed reactor over perovskite catalyst: A simulation study using experimental kinetic model. <i>Journal of Natural Gas Chemistry</i> , 2008, 17, 8-16.	1.8	33
13	Microstructure and mechanical properties of thermoplastic elastomer nanocomposites based on PA6/NBR/HNT. <i>Polymer Composites</i> , 2017, 38, E451.	2.3	32
14	Modification of Theoretical models to predict mechanical behavior of PVC/NBR/organoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 3229-3239.	1.3	31
15	Enhancement of mechanical, thermal and morphological properties of compatibilized graphene reinforced dynamically vulcanized thermoplastic elastomer vulcanizates based on polyethylene and reclaimed rubber. <i>Composites Science and Technology</i> , 2018, 161, 57-65.	3.8	31
16	Morphology and dynamic-mechanical properties of PVC/NBR blends reinforced with two types of nanoparticles. <i>Journal of Composite Materials</i> , 2014, 48, 131-141.	1.2	30
17	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
18	Modeling the hyperviscoelastic behavior of a tire tread compound reinforced by silica and carbon black. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1725-1731.	1.3	25

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19	Essential work of fracture and failure mechanisms in dynamically vulcanized thermoplastic elastomer nanocomposites based on PA6/NBR/XNBR-grafted HNTs. <i>Engineering Fracture Mechanics</i> , 2018, 200, 251-262.	2.0	25
20	Investigation on the kinetics of cure reaction of acrylonitrile-butadiene rubber (NBR)/polyvinyl chloride (PVC)/graphene nanocomposite using various models. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48632.	1.3	25
21	OPTIMIZATION OF THE VULCANIZATION PROCESS OF A THICK RUBBER ARTICLE USING AN ADVANCED COMPUTER SIMULATION TECHNIQUE. <i>Rubber Chemistry and Technology</i> , 2012, 85, 576-589.	0.6	22
22	Effect of single-walled carbon nanotubes on morphology and mechanical properties of NBR/PVC blends. <i>Iranian Polymer Journal (English Edition)</i> , 2012, 21, 505-511.	1.3	22
23	Parameter determination and experimental verification of Bergström-Boyce hysteresis model for rubber compounds reinforced by carbon black blends. <i>Materials & Design</i> , 2014, 53, 457-465.	5.1	21
24	Effects of nanoclay and short nylon fiber on morphology and mechanical properties of nanocomposites based on NR/SBR. <i>Fibers and Polymers</i> , 2014, 15, 814-822.	1.1	21
25	Development of an optimized thermal cure cycle for a complex-shape composite part using a coupled finite element/genetic algorithm technique. <i>Iranian Polymer Journal (English Edition)</i> , 2015, 24, 459-469.	1.3	21
26	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
27	Surface modification of oxidized carbon fibers by grafting bis(triethoxysilylpropyl) tetrasulfide (TESPT) and rubber sizing agent : Application to short carbon fibers/SBR composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 141, 106201.	3.8	21
28	Effect of halloysite nanotube on microstructure, rheological and mechanical properties of dynamically vulcanized PA6/NBR thermoplastic vulcanizates. <i>Soft Materials</i> , 2016, 14, 127-139.	0.8	20
29	Development of a new combined numerical/experimental approach for the modeling of the nonlinear hyper-viscoelastic behavior of highly carbon black filled rubber compound. <i>Polymer Testing</i> , 2018, 70, 135-143.	2.3	20
30	Modeling of nonlinear hyper-viscoelastic and stress softening behaviors of acrylonitrile butadiene rubber/polyvinyl chloride nanocomposites reinforced by nanoclay and graphene. <i>Polymer Composites</i> , 2021, 42, 583-596.	2.3	20
31	PP/EPDM Blends and their Developments up to Nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2009, 28, 613-639.	1.6	18
32	Non-isothermal Modeling of a Non-Newtonian Fluid Flow in a Twin Screw Extruder Using the Fictitious Domain Method. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 462-474.	0.6	18
33	Mechanical properties development of high-ACN nitrile-butadiene rubber/organoclay nanocomposites. <i>Plastics, Rubber and Composites</i> , 2016, 45, 389-397.	0.9	18
34	Computer simulation of tire rolling resistance using finite element method: Effect of linear and nonlinear viscoelastic models. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 2746-2760.	1.1	18
35	Thermo-mechanical coupled finite element simulation of tire cornering characteristics—Effect of complex material models and friction law. <i>Mathematics and Computers in Simulation</i> , 2018, 144, 35-51.	2.4	17
36	Investigation on viscoelastic behavior of virgin EPDM/ reclaimed rubber blends using Generalized Maxwell Model (GMM). <i>Polymer Testing</i> , 2021, 93, 106989.	2.3	17

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37	Nano Graphene-Reinforced Bio-nanocomposites Based on NR/PLA: The Morphological, Thermal and Rheological Perspective. <i>Journal of Polymers and the Environment</i> , 2019, 27, 1529-1541.	2.4	16
38	Thermoplastic vulcanizate nanocomposites based on polyethylene/reclaimed rubber: A correlation between carbon nanotube dispersion state and electrical percolation threshold. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47795.	1.3	16
39	Chemical and physical properties of self-crosslinked poly(vinyl chloride)/nitrile rubber nanocomposites prepared by melt-mixing process. <i>Journal of Polymer Engineering</i> , 2011, 31, .	0.6	15
40	Effect of carbon nanotube on PA6/ECO composites: Morphology development, rheological, and thermal properties. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45977.	1.3	15
41	Finite element analysis of thermoplastic melts flow through the metering and die regions of single screw extruders. <i>Journal of Applied Polymer Science</i> , 1999, 74, 676-689.	1.3	14
42	Microstructure, mechanical, and rheological properties of natural rubber/ethylene propylene diene monomer nanocomposites reinforced by multi-wall carbon nanotubes. <i>Polymer Composites</i> , 2018, 39, E745.	2.3	13
43	Finite element analysis of steady rolling tyre with slip angle: effect of belt angle. <i>Plastics, Rubber and Composites</i> , 2006, 35, 83-90.	0.9	12
44	Effect of cure kinetic simulation model on optimized thermal cure cycle for thin-sectioned composite parts. <i>Polymer Composites</i> , 2013, 34, 1172-1179.	2.3	12
45	Electrical and thermal properties of a thermoplastic elastomer nanocomposite based on polypropylene/ethylene propylene diene monomer/graphene. <i>Soft Materials</i> , 2017, 15, 82-94.	0.8	12
46	Study of morphology and mechanical properties of PP/EPDM/clay nanocomposites prepared using twin-screw extruder and friction stir process. <i>Polymer Composites</i> , 2019, 40, 3306-3314.	2.3	11
47	Modelling of polymer fluid flow and residence time distribution in twin screw extruder using fictitious domain method. <i>Plastics, Rubber and Composites</i> , 2011, 40, 387-396.	0.9	10
48	Nanocomposites Based on NR/SBR: Effects of Nanoclay and Short Nylon Fibers on the Cure Characteristics and Thermal Properties. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 1016-1024.	1.9	10
49	An experimental kinetic model for the oxidative coupling of methane using a bench-scale reactor. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2008, 3, 202-210.	0.8	9
50	Effect of modified single-wall carbon nanotubes on mechanical and morphological properties of thermoplastic elastomer nanocomposites based on (polyamide 6)/(acrylonitrile butadiene rubber). <i>Journal of Vinyl and Additive Technology</i> , 2016, 22, 336-341.	1.8	9
51	Microstructure and Mechanical Properties of Nanocomposite Based on Polypropylene/Ethylene Propylene Diene Monomer/Graphene. <i>International Polymer Processing</i> , 2017, 32, 72-83.	0.3	9
52	Enhancement of mechanical properties of styrene-butadiene rubber composites by carbon black/silicone carbide hybrid filler networking. <i>Polymer Composites</i> , 2022, 43, 4255-4267.	2.3	9
53	Thermal properties and morphology of isotactic polypropylene/acrylonitrile-butadiene rubber blends in the presence and absence of a nanoclay. <i>Journal of Applied Polymer Science</i> , 2011, 121, 1365-1371.	1.3	8
54	The prediction capability of the kinetic models extracted from isothermal data in non-isothermal conditions for an epoxy prepreg. <i>Journal of Composite Materials</i> , 2014, 48, 1039-1048.	1.2	8

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55	Effect of Different Types of Nano-particles on the Morphology and Mechanical Properties of EPDM Foam. <i>Frontiers in Forests and Global Change</i> , 2017, 36, 113-134.	0.6	8
56	Simulation of Free Surface Flow in Partially Filled Internal Mixers. <i>International Polymer Processing</i> , 1997, 12, 346-353.	0.3	7
57	Development of a 2D Single Particle Model to Analyze the Effect of Initial Particle Shape and Breakage in Olefin Polymerization. <i>Macromolecular Reaction Engineering</i> , 2014, 8, 29-45.	0.9	7
58	ELASTOMER NANOCOMPOSITES BASED ON BR/EPDM/ORGANOCLAY. <i>Rubber Chemistry and Technology</i> , 2013, 86, 299-312.	0.6	6
59	An investigation into the thermal transport properties of PP/EPDM/clay nanocomposites using a new combined experimental/numerical method. <i>Plastics, Rubber and Composites</i> , 2016, 45, 229-237.	0.9	6
60	Dynamically vulcanized polypropylene/ethylene- ϵ -propylene diene monomer/organoclay nanocomposites: Effect of mixing sequence on structural, rheological, and mechanical properties. <i>Journal of Vinyl and Additive Technology</i> , 2016, 22, 320-325.	1.8	6
61	Multiscale modeling of polymer systems comprising nanotube-like inclusions by considering interfacial debonding under plastic deformations. <i>Composite Structures</i> , 2018, 194, 302-315.	3.1	6
62	Nonlinear stress relaxation of filled rubber compounds: A new theoretical model and experimental investigation. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49884.	1.3	6
63	Finite Element Analysis of Mixing in Partially Filled Twin Blade Internal Mixers. <i>International Polymer Processing</i> , 1998, 13, 231-238.	0.3	6
64	Hyperelastic model analysis of stress-strain behavior in polybutadiene/ethylene-propylene diene terpolymer nanocomposites. <i>Journal of Vinyl and Additive Technology</i> , 2017, 23, 21-27.	1.8	5
65	Naturally occurring halloysite nanotubes for enhanced durability of natural rubber/ethylene propylene diene monomer rubber vulcanizate. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 855-867.	1.8	5
66	Microstructural Evolution of PP/EPDM/Organoclay Nanocomposites in a Twin Screw Extruder. <i>International Polymer Processing</i> , 2011, 26, 212-218.	0.3	4
67	A multi-scale three-dimensional finite element analysis of polymeric rubber foam reinforced by carbon nanotubes under tensile loads. <i>Iranian Polymer Journal (English Edition)</i> , 2019, 28, 135-144.	1.3	4
68	Development of a bubble growth model for natural rubber-based foams. <i>Polymer Engineering and Science</i> , 2021, 61, 477-488.	1.5	4
69	Investigation of rheological, mechanical, and thermal properties of nanocomposites based on nitrile rubber-phenolic resin reinforced with nanographene. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50906.	1.3	4
70	Comparative Study on the Kinetic Modeling of the Oxidative Coupling of Methane in Laboratory and Bench Scales. <i>Chemical Product and Process Modeling</i> , 2008, 3, .	0.5	3
71	Investigation of combination of finite element formulation and element type on the accuracy of 3D modeling of polymeric fluid flow in an extrusion die. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1607-1615.	1.3	2
72	An experimental investigation on the degradation effect of ozone on hyperelastic behavior of an NR/BR blend. <i>Iranian Polymer Journal (English Edition)</i> , 2015, 24, 1015-1024.	1.3	2

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73	Numerical Analysis of Rubber Moulding Using Finite Element Modelling. International Polymer Processing, 2005, 20, 238-244.	0.3	2
74	Modeling the Flow in the Metering Zone of Single Screw Extruders Using a Helical Geometry Model. International Polymer Processing, 2004, 19, 95-100.	0.3	1
75	Finite element modeling of the flow of a rubber compound through an axisymmetric die using the CEF viscoelastic constitutive equation. Journal of Applied Polymer Science, 2012, 125, 3648-3657.	1.3	1
76	Modeling the hyperviscoelastic and stress-softening behaviors of S-SBR/CB-filled rubber compound using a multicomponent model. Mechanics of Time-Dependent Materials, 2023, 27, 805-828.	2.3	1
77	Effect of Organoclay Addition on Rheological, Thermal, and Mechanical Properties of Nitrile Rubber/Phenolic Resin Blend. Polymers, 2022, 14, 1463.	2.0	1