

Azam Jalali-Arani

List of Publications by Year in descending order

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394286

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#	ARTICLE	IF	CITATIONS
1	Nanocomposites based on natural rubber, organoclay and nano-calcium carbonate: Study on the structure, cure behavior, static and dynamic-mechanical properties. <i>Applied Clay Science</i> , 2016, 119, 348-357.	2.6	52
2	Double percolated MWCNTs loaded PC/SAN nanocomposites as an absorbing electromagnetic shield. <i>European Polymer Journal</i> , 2018, 100, 209-218.	2.6	42
3	Morphology and rheology of (styrene-butadiene rubber/acrylonitrile-butadiene rubber) blends filled with organoclay: The effect of nanoparticle localization. <i>Applied Clay Science</i> , 2015, 108, 1-11.	2.6	39
4	Biodegradable Nanocomposites Developed from PLA/PCL Blends and Silk Fibroin Nanoparticles: Study on the Microstructure, Thermal Behavior, Crystallinity and Performance. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1252-1264.	2.4	37
5	Poly(vinylidene fluoride)-acrylic rubber partially miscible blends: Crystallization within conjugated phases induce dual lamellar crystalline structure. <i>Polymer</i> , 2013, 54, 4686-4701.	1.8	36
6	Statistical investigation on physical-mechanical properties of base and polymer modified bitumen using Artificial Neural Network. <i>Construction and Building Materials</i> , 2012, 37, 822-831.	3.2	31
7	Organoclay maleated natural rubber nanocomposite. Prediction of abrasion and mechanical properties by artificial neural network and adaptive neuro-fuzzy inference. <i>Applied Clay Science</i> , 2014, 97-98, 187-199.	2.6	31
8	Partial replacement of NR by GTR in thermoplastic elastomer based on LLDPE/NR through using reactive blending: Its effects on morphology, rheological, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2010, 115, 2416-2422.	1.3	28
9	CRYSTALLINE STRUCTURES AND α , β AND γ POLYMORPHS TRANSFORMATION INDUCED BY NANOCLAY IN PVDF-BASED NANOCOMPOSITE. <i>Nano</i> , 2014, 09, 1450065.	0.5	28
10	A comparison between the effects of gamma radiation and sulfur cure system on the microstructure and crosslink network of (styrene butadiene rubber/ethylene propylene diene monomer) blends in presence of nanoclay. <i>Radiation Physics and Chemistry</i> , 2015, 115, 68-74.	1.4	28
11	Preparation of thermoplastic elastomers based on silicone rubber and polyethylene by thermomechanical reactive blending: Effects of polyethylene structural parameters. <i>Journal of Applied Polymer Science</i> , 2003, 90, 3402-3408.	1.3	27
12	Poly(vinylidene fluoride)-acrylic rubber partially miscible blends: Phase behavior and its effects on the mechanical properties. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1247-1258.	1.3	26
13	High-performance bio-based poly(lactic acid)/natural rubber/epoxidized natural rubber blends: effect of epoxidized natural rubber on microstructure, toughness and static and dynamic mechanical properties. <i>Polymer International</i> , 2019, 68, 439-446.	1.6	26
14	Influence of addition of organic fillers on the properties of mechanically recycled PLA. <i>Environmental Science and Pollution Research</i> , 2021, 28, 24291-24304.	2.7	25
15	Influence of Miscibility Phenomenon on Crystalline Polymorph Transition in Poly(Vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.1	24
16	Crystallization and melting behavior of polypropylene (PP) in (vulcanized nanoscale polybutadiene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	23
17	In situ synthesis of silica/polyacrylate nanocomposite particles simultaneously bearing carboxylate and sulfonate functionalities via soap-free seeded emulsion polymerization. <i>Materials Chemistry and Physics</i> , 2018, 207, 470-478.	2.0	23
18	Effect of pre-devulcanization and temperature on physical and chemical properties of waste tire pyrolytic oil residue. <i>Fuel</i> , 2013, 112, 319-325.	3.4	22

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19	Rheological behavior and properties of bitumen modified with polymeric coated precipitated calcium carbonate. <i>Construction and Building Materials</i> , 2011, 25, 2875-2882.	3.2	21
20	A morphological study on the migration and selective localization of graphene in the PLA/PMMA blends. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	20
21	The use of gamma irradiation in preparation of polybutadiene rubber nanopowder; Its effect on particle size, morphology and crosslink structure of the powder. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 320, 1-5.	0.6	18
22	Cold crystallization behavior of poly(lactic acid) in its blend with acrylic rubber; the effect of acrylic rubber content. <i>Polymer International</i> , 2017, 66, 1564-1571.	1.6	17
23	A Comparison of the Effect of Silk Fibroin Nanoparticles and Microfibers on the Reprocessing and Biodegradability of PLA/PCL Blends. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2585-2597.	2.4	16
24	The effect of silk fibroin nanoparticles on the morphology, rheology, dynamic mechanical properties, and toughness of poly(lactic acid)/poly(ϵ -caprolactone) nanocomposite. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49232.	1.3	15
25	Thermomechanical reactive blending of silicone rubber and LLDPE: Effects of processing parameters. <i>Journal of Applied Polymer Science</i> , 2005, 96, 155-161.	1.3	14
26	The Effect of Epoxidized Natural Rubber and Two Kinds of Organoclay upon Molecular Interaction, Structure and Mechanical Properties of (Styrene-Butadiene Rubber/Acrylonitrile-Butadiene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td	1.3	14
27	Electrical conductivity of graphene filled PLA/PMMA blends: Experimental investigation and modeling. <i>Polymer Composites</i> , 2019, 40, 704-715.	2.3	14
28	Morphology Development via Static Crosslinking of (Polylactic Acid/Acrylic Rubber) as an Immiscible Polymer Blend. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700446.	1.7	13
29	MIXING SEQUENCE IN NATURAL RUBBER CONTAINING ORGANOCLAY AND NANO“CALCIUM CARBONATE TERNARY HYBRID NANOCOMPOSITES. <i>Rubber Chemistry and Technology</i> , 2013, 86, 330-341.	0.6	12
30	Effect of nanoparticle localization on the rheology, morphology and toughness of nanocomposites based on poly(lactic acid)/natural rubber/nanosilica. <i>Polymer International</i> , 2019, 68, 779-787.	1.6	12
31	Synergistic effects of nano-scale polybutadiene rubber powder (PBRP) and nanoclay on the structure, dynamic mechanical and thermal properties of polypropylene (PP). <i>Iranian Polymer Journal (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 457 Td</i>	1.3	12
32	Investigation of nanoparticle“polymer interaction in bio-based nanosilica-filled PLA/NR nanocomposites: molecular dynamics simulation. <i>Journal of Molecular Modeling</i> , 2020, 26, 230.	0.8	9
33	High performance graphene oxide/epoxy nanocomposites fabricated through the solvent exchange method. <i>Polymer Composites</i> , 2018, 39, E2497.	2.3	8
34	Using of leather fibers as an additive in elastomeric compounds: Its effect on curing behavior and physico-mechanical properties. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1670-1675.	1.3	7
35	Preparation of binary and hybrid epoxy nanocomposites containing graphene oxide and rubber nanoparticles: Fracture toughness and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46988.	1.3	7
36	Study on the morphology, static and dynamic mechanical properties of (styrene butadiene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td radiation. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6

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37	Preparation of Silicon Carbide Nanoparticle/Butadiene Rubber/Silane Nanocomposites; Structural, Mechanical, Tribological and Thermal Properties. <i>Journal of Macromolecular Science - Physics</i> , 2017, 56, 749-761.	0.4	5
38	A Change of Phase Morphology in Poly Lactic Acid/Poly Methyl Methacrylate Blends Induced by Graphene Nano Sheets. <i>Journal of Macromolecular Science - Physics</i> , 2015, 54, 1466-1478.	0.4	4
39	The use of waste rubber in natural rubber in the presence of maleic anhydride-grafted natural rubber (MA-g-NR): study on curing, rheology, morphology, and properties of the blend. <i>Journal of Polymer Engineering</i> , 2014, 34, 33-40.	0.6	3
40	Investigation of miscibility and phase structure of a novel blend of poly(lactic acid) (<sc>PLA</sc>)/acrylic rubber (<sc>ACM</sc>) and its nanocomposite with nanosilica. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45499.	1.3	3
41	The relationship of vulcanization and structural characteristics of dispersion of organoclay in (butadiene rubber/natural rubber) based nanocomposite. <i>Advances in Polymer Technology</i> , 2018, 37, 1469-1477.	0.8	1
42	Effect of Nanoclay Concentration on the Curing and Mechanical Behavior of Chlorobutyl Rubber Nanocomposites. , 2020, , 313-315.		0