Azam Jalali-Arani

List of Publications by Year
in descending order

42 papers	798 citations	394421 19 h-index	552781 26 g-index
43 all docs	43 docs citations	43 times ranked	890 citing authors

#	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. Applied Clay Science, 2016, 119, 348-357.	5.2	52
2	Double percolated MWCNTs loaded PC/SAN nanocomposites as an absorbing electromagnetic shield. European Polymer Journal, 2018, 100, 209-218.	5.4	42
3	Morphology and rheology of (styrene-butadiene rubber/acrylonitrile-butadiene rubber) blends filled with organoclay: The effect of nanoparticle localization. Applied Clay Science, 2015, 108, 1-11.	5.2	39
4	Biodegradable Nanocomposites Developed from PLA/PCL Blends and Silk Fibroin Nanoparticles: Study on the Microstructure, Thermal Behavior, Crystallinity and Performance. Journal of Polymers and the Environment, 2020, 28, 1252-1264.	5.0	37
5	Poly(vinylidene fluoride)-acrylic rubber partially miscible blends: Crystallization within conjugated phases induce dual lamellar crystalline structure. Polymer, 2013, 54, 4686-4701.	3.8	36
6	Statistical investigation on physicalâ€“mechanical properties of base and polymer modified bitumen using Artificial Neural Network. Construction and Building Materials, 2012, 37, 822-831.	7.2	31
7	Organoclay maleated natural rubber nanocomposite. Prediction of abrasion and mechanical properties by artificial neural network and adaptive neuro-fuzzy inference. Applied Clay Science, 2014, 97-98, 187-199.	5.2	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. Journal of Applied Polymer Science, 2010, 115, 2416-2422.	2.6	28
9	CRYSTALLINE STRUCTURES AND Î± â†' Î² AND Î³ POLYMORPHS TRANSFORMATION INDUCED BY NANOCLAY IN PVDF-BASED NANOCOMPOSITE. Nano, 2014, 09, 1450065.	1.0	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. Radiation Physics and Chemistry, 2015, 115, 68-74.	2.8	28
11	Preparation of thermoplastic elastomers based on silicone rubber and polyethylene by thermomechanical reactive blending: Effects of polyethylene structural parameters. Journal of Applied Polymer Science, 2003, 90, 3402-3408.	2.6	27
12	Poly(vinylidene fluoride)â€“acrylic rubber partially miscible blends: Phase behavior and its effects on the mechanical properties. Journal of Applied Polymer Science, 2013, 130, 1247-1258.	2.6	26
13	Highâ€performance bioâ€based poly(lactic acid)/natural rubber/epoxidized natural rubber blends: effect of epoxidized natural rubber on microstructure, toughness and static and dynamic mechanical properties. Polymer International, 2019, 68, 439-446.	3.1	26
14	Influence of addition of organic fillers on the properties of mechanically recycled PLA. Environmental Science and Pollution Research, 2021, 28, 24291-24304.	5.3	25
15	Influence of Miscibility Phenomenon on Crystalline Polymorph Transition in Poly(Vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.5	24
16	Crystallization and melting behavior of polypropylene (PP) in (vulcanized nanoscale polybutadiene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.7	23
17	In situ synthesis of silica/polyacrylate nanocomposite particles simultaneously bearing carboxylate and sulfonate functionalities via soap-free seeded emulsion polymerization. Materials Chemistry and Physics, 2018, 207, 470-478.	4.0	23
18	Effect of pre-devulcanization and temperature on physical and chemical properties of waste tire pyrolytic oil residue. Fuel, 2013, 112, 319-325.	6.4	22

#	Article	IF	Citations
19	Rheological behavior and properties of bitumen modified with polymeric coated precipitated calcium carbonate. Construction and Building Materials, 2011, 25, 2875-2882.	7.2	21
20	A morphological study on the migration and selective localization of graphene in the PLA/PMMA blends. Journal of Applied Polymer Science, 2016, 133, .	2.6	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. Nuclear Instruments & Methods in Physics Research B, 2014, 320, 1-5.	1.4	18
22	Cold crystallization behavior of poly(lactic acid) in its blend with acrylic rubber; the effect of acrylic rubber content. Polymer International, 2017, 66, 1564-1571.	3.1	17
23	A Comparison of the Effect of Silk Fibroin Nanoparticles and Microfibers on the Reprocessing and Biodegradability of PLA/PCL Blends. Journal of Polymers and the Environment, 2021, 29, 2585-2597.	5.0	16
24	The effect of silk fibroin nanoparticles on the morphology, rheology, dynamic mechanical properties, and toughness of poly(lactic acid)/poly(Îµâ€caprolactone) nanocomposite. Journal of Applied Polymer Science, 2020, 137, 49232.	2.6	15
25	Thermomechanical reactive blending of silicone rubber and LLDPE: Effects of processing parameters. Journal of Applied Polymer Science, 2005, 96, 155-161.	2.6	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	1.0	14
27	Electrical conductivity of graphene filled PLA/PMMA blends: Experimental investigation and modeling. Polymer Composites, 2019, 40, 704-715.	4.6	14
28	Morphology Development via Static Crosslinking of (Polylactic Acid/Acrylic Rubber) as an Immiscible Polymer Blend. Macromolecular Materials and Engineering, 2018, 303, 1700446.	3.6	13
29	MIXING SEQUENCE IN NATURAL RUBBER CONTAINING ORGANOCLAY AND NANOâ€"CALCIUM CARBONATE TERNARY HYBRID NANOCOMPOSITES. Rubber Chemistry and Technology, 2013, 86, 330-341.	1.2	12
30	Effect of nanoparticle localization on the rheology, morphology and toughness of nanocomposites based on poly(lactic acid)/natural rubber/nanosilica. Polymer International, 2019, 68, 779-787.	3.1	12
31	Synergistic effects of nano-scale polybutadiene rubber powder (PBRP) and nanoclay on the structure, dynamic mechanical and thermal properties of polypropylene (PP). Iranian Polymer Journal (English) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	11
32	Investigation of nanoparticleâ€"polymer interaction in bio-based nanosilica-filled PLA/NR nanocomposites: molecular dynamics simulation. Journal of Molecular Modeling, 2020, 26, 230.	1.8	9
33	High performance graphene oxide/epoxy nanocomposites fabricated through the solvent exchange method. Polymer Composites, 2018, 39, E2497.	4.6	8
34	Using of leather fibers as an additive in elastomeric compounds: Its effect on curing behavior and physico-mechanical properties. Journal of Applied Polymer Science, 2009, 111, 1670-1675.	2.6	7
35	Preparation of binary and hybrid epoxy nanocomposites containing graphene oxide and rubber nanoparticles: Fracture toughness and mechanical properties. Journal of Applied Polymer Science, 2019, 136, 46988.	2.6	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. Journal of Applied Polymer Science, 2016, 133, .	2.6	6

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37	Preparation of Silicon Carbide Nanoparticle/Butadiene Rubber/Silane Nanocomposites; Structural, Mechanical, Tribological and Thermal Properties. Journal of Macromolecular Science - Physics, 2017, 56, 749-761.	1.0	5
38	A Change of Phase Morphology in Poly Lactic Acid/Poly Methyl Methacrylate Blends Induced by Graphene Nano Sheets. Journal of Macromolecular Science - Physics, 2015, 54, 1466-1478.	1.0	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. Journal of Polymer Engineering, 2014, 34, 33-40.	1.4	3
40	Investigation of miscibility and phase structure of a novel blend of poly(lactic acid) (<scp>PLA</scp>)/acrylic rubber (<scp>ACM</scp>) and its nanocomposite with nanosilica. Journal of Applied Polymer Science, 2017, 134, 45499.	2.6	3
41	The relationship of vulcanization and structural characteristicsâ€dispersion of organoclayâ€mechanical properties inÂ(butadiene rubber/natural rubber) based nanocomposite. Advances in Polymer Technology, 2018, 37, 1469-1477.	1.7	1
42	Effect of Nanoclay Concentration on the Curing and Mechanical Behavior of Chlorobutyl Rubber Nanocomposites. , 2020, , 313-315.		0