

Javad Seyfi

List of Publications by Year in descending order

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62
papers

1,840
citations

201385

27
h-index

288905

40
g-index

63
all docs

63
docs citations

63
times ranked

1796
citing authors

#	ARTICLE	IF	CITATIONS
1	On the role of processing parameters in producing Cu/SiC metal matrix composites via friction stir processing: Investigating microstructure, microhardness, wear and tensile behavior. <i>Materials Characterization</i> , 2011, 62, 108-117.	1.9	271
2	Role of nanoparticles in phase separation and final morphology of superhydrophobic polypropylene/zinc oxide nanocomposite surfaces. <i>Applied Surface Science</i> , 2014, 293, 116-123.	3.1	67
3	Interface modified polylactic acid/starch/poly ϵ -caprolactone antibacterial nanocomposite blends for medical applications. <i>Carbohydrate Polymers</i> , 2017, 155, 336-344.	5.1	63
4	A novel approach for producing polymer nanocomposites by in-situ dispersion of clay particles via friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3003-3006.	2.6	60
5	Superhydrophobic cotton fabrics coated by chitosan and titanium dioxide nanoparticles with enhanced antibacterial and UV-protecting properties. <i>International Journal of Biological Macromolecules</i> , 2021, 171, 158-165.	3.6	57
6	Simulation of mechanical behavior and optimization of simulated injection molding process for PLA based antibacterial composite and nanocomposite bone screws using central composite design. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 160-176.	1.5	54
7	Preparation and characterization of polyvinyl alcohol/chitosan blends plasticized and compatibilized by glycerol/polyethylene glycol. <i>Carbohydrate Polymers</i> , 2020, 232, 115784.	5.1	54
8	Transforming an intrinsically hydrophilic polymer to a robust self-cleaning superhydrophobic coating via carbon nanotube surface embedding. <i>Materials and Design</i> , 2015, 86, 338-346.	3.3	51
9	Fabrication of robust and thermally stable superhydrophobic nanocomposite coatings based on thermoplastic polyurethane and silica nanoparticles. <i>Applied Surface Science</i> , 2015, 347, 224-230.	3.1	47
10	Preparation and characterization of interface-modified PLA/starch/PCL ternary blends using PLLA/triclosan antibacterial nanoparticles for medical applications. <i>RSC Advances</i> , 2016, 6, 39870-39882.	1.7	47
11	Investigating thermal, mechanical and rheological properties of novel antibacterial hybrid nanocomposites based on PLLA/triclosan/nano-hydroxyapatite. <i>Polymer</i> , 2016, 90, 232-241.	1.8	45
12	On the combined use of nanoparticles and a proper solvent/non-solvent system in preparation of superhydrophobic polymer coatings. <i>Polymer</i> , 2015, 56, 358-367.	1.8	44
13	Preparation and Characterization of Composite Blends Based on Polylactic Acid/Polycaprolactone and Silk. <i>Biomacromolecules</i> , 2018, 19, 4358-4369.	2.6	42
14	Towards an efficient and durable superhydrophobic mesh coated by PDMS/TiO ₂ nanocomposites for oil/water separation. <i>Applied Surface Science</i> , 2019, 492, 862-870.	3.1	42
15	Morphology, rheology and dynamic mechanical properties of PP/EVA/clay nanocomposites. <i>Journal of Polymer Research</i> , 2011, 18, 1829-1839.	1.2	41
16	Superhydrophobic filter paper via an improved phase separation process for oil/water separation: study on surface morphology, composition and wettability. <i>Cellulose</i> , 2016, 23, 3913-3924.	2.4	41
17	Investigating the role of surface micro/nano structure in cell adhesion behavior of superhydrophobic polypropylene/nanosilica surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 127, 233-240.	2.5	39
18	Enhanced hydrophobicity of polyurethane via non-solvent induced surface aggregation of silica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 117-126.	5.0	39

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19	Antibacterial superhydrophobic polyvinyl chloride surfaces via the improved phase separation process using silver phosphate nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110438.	2.5	39
20	Tuning cell adhesion on polymeric and nanocomposite surfaces: Role of topography versus superhydrophobicity. <i>Materials Science and Engineering C</i> , 2016, 63, 609-615.	3.8	37
21	Imparting superhydrophobic and antibacterial properties onto the cotton fabrics: synergistic effect of zinc oxide nanoparticles and octadecanethiol. <i>Cellulose</i> , 2018, 25, 4211-4222.	2.4	37
22	A novel method to control hydrolytic degradation of nanocomposite biocompatible materials via imparting superhydrophobicity. <i>Applied Surface Science</i> , 2015, 357, 880-886.	3.1	31
23	Self-cleaning behavior in polyurethane/silica coatings via formation of a hierarchical packed morphology of nanoparticles. <i>Applied Surface Science</i> , 2016, 368, 216-223.	3.1	31
24	Nanosilica-decorated sponges for efficient oil/water separation: role of nanoparticle's type and concentration. <i>Journal of Materials Science</i> , 2017, 52, 7017-7027.	1.7	30
25	Optimization simulated injection molding process for ultrahigh molecular weight polyethylene nanocomposite hip liner using response surface methodology and simulation of mechanical behavior. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 81, 95-105.	1.5	30
26	Enhanced compatibility of starch with poly(lactic acid) and poly(ϵ -caprolactone) by incorporation of POSS nanoparticles: Study on thermal properties. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 578-584.	3.6	29
27	Assessment of rheological and mechanical properties of nanostructured materials based on thermoplastic olefin blend and organoclay. <i>Materials & Design</i> , 2011, 32, 649-655.	5.1	28
28	Thermal degradation and crystallization behavior of blend-based nanocomposites: Role of clay network formation. <i>Journal of Applied Polymer Science</i> , 2012, 123, 2492-2499.	1.3	28
29	Studying the roles of nanoclay and blend composition on the improved properties of natural rubber/chloroprene composites. <i>Polymer Composites</i> , 2018, 39, 1562-1574.	2.3	27
30	Emphasizing the role of surface chemistry on hydrophobicity and cell adhesion behavior of polydimethylsiloxane/TiO ₂ nanocomposite films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 492-498.	2.5	26
31	Investigating the interrelationship of superhydrophobicity with surface morphology, topography and chemical composition in spray-coated polyurethane/silica nanocomposites. <i>Polymer</i> , 2017, 128, 108-118.	1.8	23
32	Influence of Graphene Oxide on Crystallization Behavior and Chain Folding Surface Free Energy of Poly(vinylidene fluoride-co-hexafluoropropylene). <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700103.	1.1	21
33	Developing antibacterial superhydrophobic coatings based on polydimethylsiloxane/silver phosphate nanocomposites: Assessment of surface morphology, roughness and chemistry. <i>Progress in Organic Coatings</i> , 2020, 149, 105944.	1.9	19
34	Study on the effects of non-solvent and nanoparticle concentrations on surface properties of water-repellent biocompatible l-lactide/glycolide/trimethylene carbonate terpolymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 502, 168-175.	2.3	17
35	Enhanced chemical and mechanical durability of superhydrophobic and superoleophilic nanocomposite coatings on cotton fabric for reusable oil/water separation applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125204.	2.3	17
36	Investigating the role of transreactions on degradation behavior of phenoxy/poly(trimethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 59-66.	1.2	16

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37	POSS fernlike structure as a support for TiO ₂ nanoparticles in fabrication of superhydrophobic polymer-based nanocomposite surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 514-521.	2.3	16
38	Nanoperlite effect on thermal, rheological, surface and cellular properties of poly lactic acid/nanoperlite nanocomposites for multipurpose applications. <i>Polymer Testing</i> , 2020, 91, 106779.	2.3	16
39	Investigating the effect of nanolayered silicates on blend segmental dynamics and minor component relaxation behavior in poly(ethylene oxide)/poly(methyl methacrylate) miscible blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 318-326.	2.4	15
40	Evaluating the effect of hydroxyapatite nanoparticles on morphology, thermal stability and dynamic mechanical properties of multicomponent blend systems based on polylactic acid/Starch/Polycaprolactone. <i>Journal of Vinyl and Additive Technology</i> , 2019, 25, E83.	1.8	15
41	Investigating the effects of polymer molecular weight and non-solvent content on the phase separation, surface morphology and hydrophobicity of polyvinyl chloride films. <i>Applied Surface Science</i> , 2018, 428, 933-940.	3.1	14
42	Spin-coated polyvinylidene fluoride/graphene nanocomposite thin films with improved β -phase content and electrical conductivity. <i>Journal of Materials Science</i> , 2020, 55, 6696-6707.	1.7	14
43	An investigation of TiO ₂ nanoparticles effect on morphology, thermal, and mechanical properties of epoxy/silica composites. <i>Journal of Vinyl and Additive Technology</i> , 2017, 23, E216.	1.8	13
44	Assessment of morphology, topography and chemical composition of water-repellent films based on polystyrene/titanium dioxide nanocomposites. <i>Applied Surface Science</i> , 2017, 396, 616-624.	3.1	13
45	Developing multicomponent edible films based on chitosan, hybrid of essential oils, and nanofibers: Study on physicochemical and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4065-4072.	3.6	12
46	Hopes Beyond PET Recycling: Environmentally Clean and Engineeringly Applicable. <i>Journal of Polymers and the Environment</i> , 2019, 27, 2490-2508.	2.4	11
47	Investigation on surface properties of superhydrophobic nanocomposites based on polyvinyl chloride and correlation with cell adhesion behavior. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1027-1035.	1.6	11
48	Investigating Thermal and Surface Properties of Low-Density Polyethylene/Nanoperlite Nanocomposites for Packaging Applications. <i>Polymer Composites</i> , 2019, 40, 2929-2937.	2.3	11
49	Study on the effects of polyhedral oligomeric silsesquioxane on compatibility, crystallization behavior and thermal stability of polylactic acid/polycaprolactone blends. <i>Polymer Bulletin</i> , 2020, 77, 585-598.	1.7	11
50	Effect of nanoparticle type and content on morphology, rheology, and crystallinity of poly(lactic acid) Composites, 2020, 41, 1551-1560.	2.3	11
51	Opposing effects of nanoclay on viscoelastic response of reactive phenoxy/poly (trimethylene) Composites, 2011, 32, 114-124.	2.3	10
52	Improving nanoparticle dispersion and polymer crystallinity in polyvinylidene fluoride/POSS coatings using tetrahydrofuran as co-solvent. <i>Progress in Organic Coatings</i> , 2020, 140, 105534.	1.9	9
53	Preparation and characterization of polylactic-co-glycolic acid/insulin nanoparticles encapsulated in methacrylate coated gelatin with sustained release for specific medical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 910-937.	1.9	8
54	Vinyl ester/silica aerogel nanocomposite coatings with enhanced hydrophobicity and corrosion protection properties. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2176-2184.	1.6	8

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55	Tuning crystallization and hydrolytic degradation behaviors of poly(lactic acid) by using silver phosphate, zinc oxide and their nano-hybrids. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 72-82.	0.6	7
56	Enhanced properties of poly(lactic acid) by concurrent addition of organo-modified Mg-Al layered double hydroxide (LDH) and triethyl citrate. <i>Journal of Thermoplastic Composite Materials</i> , 2019, , 089270571986827.	2.6	5
57	Investigating the effect of surface composition and morphology on oil/water separation efficiency of sponges coated with polymer nanocomposites. <i>Polymer Composites</i> , 2019, 40, E431.	2.3	5
58	Investigating the Effects of Graphene Content and Application Method on Surface Properties of Vinyl Ester/Silica Aerogel Coatings. <i>Macromolecular Research</i> , 2022, 30, 334-341.	1.0	5
59	Study on the surface morphology and wettability of nanocomposite films based on poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock Composites, 2019, 40, E127.	2.3	2
60	Probing the effect of graphene surface chemistry on compatibility, crystallinity, and viscoelastic response of polylactic acid/polyvinylidene fluoride blends. <i>Materials Today Communications</i> , 2022, 30, 103188.	0.9	2
61	Preparation and characterization of antibacterial chitosan nanocomposites loaded with cellulose/chitosan nanofibers and essential oils. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112210987.	1.0	2
62	Assessment of Surface, Structural, and Viscoelastic Properties of Immiscible Polylactic Acid/Polyvinylidene Fluoride Blends. <i>Macromolecular Research</i> , 0, , .	1.0	1