

Rahmat Ar

List of Publications by Year in descending order

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40
papers

1,377
citations

430442

18
h-index

344852

36
g-index

41
all docs

41
docs citations

41
times ranked

1799
citing authors

#	ARTICLE	IF	CITATIONS
1	Antimicrobial agents for food packaging applications. Trends in Food Science and Technology, 2013, 33, 110-123.	7.8	385
2	Thermal behaviour and interactions of cassava starch filled with glycerol plasticized polyvinyl alcohol blends. Carbohydrate Polymers, 2010, 81, 805-810.	5.1	97
3	Approaches to improve compatibility of starch filled polymer system: A review. Materials Science and Engineering C, 2009, 29, 2370-2377.	3.8	94
4	Determination of thermal stability and activation energy of polyvinyl alcohol-cassava starch blends. Carbohydrate Polymers, 2011, 83, 303-305.	5.1	79
5	Morphology, thermal and mechanical behavior of polypropylene nanocomposites toughened with poly(ethylene-co-octene). Polymer International, 2006, 55, 204-215.	1.6	73
6	Computational modeling and experimental infrared spectroscopy of hydrogen bonding interactions in polyvinyl alcohol-starch blends. Polymer, 2010, 51, 1206-1211.	1.8	72
7	Investigation of nano-size montmorillonite on enhancing polyvinyl alcohol-starch blends prepared via solution cast approach. Composites Part B: Engineering, 2013, 47, 238-247.	5.9	66
8	A review of antimicrobial fabric containing nanostructures metal-based compound. Journal of Vinyl and Additive Technology, 2019, 25, E3.	1.8	59
9	Vegetable oil-based epoxy resins and their composites with bio-based hardener: a short review. Polymer-Plastics Technology and Materials, 2019, 58, 1311-1326.	0.6	52
10	Injection moulding simulation analysis of natural fiber composite window frame. Journal of Materials Processing Technology, 2008, 197, 22-30.	3.1	48
11	Morphology, Thermal, and Mechanical Behavior of Ethylene Octene Copolymer Toughened Polyamide 6/Polypropylene Nanocomposites. Journal of Thermoplastic Composite Materials, 2006, 19, 545-567.	2.6	27
12	Rheology and thermal transition state of polyvinyl alcohol-cassava starch blends. Carbohydrate Polymers, 2010, 81, 737-739.	5.1	26
13	Characterization of Î±-tocopherol as interacting agent in polyvinyl alcohol-starch blends. Carbohydrate Polymers, 2013, 98, 1281-1287.	5.1	25
14	Maleic Anhydride Polyethylene Octene Elastomer Toughened Polyamide 6/Polypropylene Nanocomposites: Mechanical and Morphological Properties. Macromolecular Symposia, 2006, 239, 182-191.	0.4	22
15	Mechanical and Rheological Properties of PA6/ABS Blends - With and Without Short Glass Fiber. Journal of Reinforced Plastics and Composites, 2010, 29, 2808-2820.	1.6	20
16	Bio-based thermoset nanocomposite derived from vegetable oil: a short review. Reviews in Chemical Engineering, 2014, 30, .	2.3	20
17	Phase Morphology and Mechanical Properties of Rubber-Toughened Polypropylene Nanocomposites: Effect of Elastomer Polarity. Polymer-Plastics Technology and Engineering, 2008, 47, 411-419.	1.9	18
18	The Effect of Rubber Type and Rubber Functionality on the Morphological and Mechanical Properties of Rubber-toughened Polyamide 6/Polypropylene Nanocomposites. Polymer Journal, 2006, 38, 767-780.	1.3	16

#	ARTICLE	IF	CITATIONS
19	Effect of Compatibilizer Type on Properties of 70:30 Polyamide 6/Polypropylene/MMT Nanocomposites. International Journal of Polymeric Materials and Polymeric Biomaterials, 2007, 56, 893-909.	1.8	13
20	Green composites based on recycled polyamide-6/recycled polypropylene kenaf composites: mechanical, thermal and morphological properties. Journal of Polymer Engineering, 2012, 32, 291-299.	0.6	13
21	A novel recycled polyethylene terephthalate/polyamide 11 (rPET/PA11) thermoplastic blend. Progress in Rubber, Plastics and Recycling Technology, 2021, 37, 233-244.	0.8	13
22	Rice Husk/High Density Polyethylene Bio-Composite: Effect of Rice Husk Filler Size and Composition on Injection Molding Processability with Respect to Impact Property. Advanced Materials Research, 0, 83-86, 367-374.	0.3	12
23	Interactive effect of ammonium polyphosphate and montmorillonite on enhancing flame retardancy of polycarbonate/acrylonitrile butadiene styrene composites. Iranian Polymer Journal (English) Tj ETQq1 1 0.784314.igBT /Overlock 10T	0.7	12
24	The influence of kenaf fiber as reinforcement on recycled polypropylene/recycled polyamide-6 composites. International Journal of Plastics Technology, 2013, 17, 149-162.	2.9	9
25	Optimization of rotor speed based on stretching, efficiency, and viscous heating in nonintermeshing internal batch mixer: Simulation and experimental verification. Journal of Applied Polymer Science, 2013, 127, 2739-2748.	1.3	8
26	Flow Characteristics and Dynamic Behavior of Polyamide 6/Acrylonitrile Butadiene Styrene (PA6/ABS) Blends. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 209-214.	1.8	8
27	Hydroxyapatite For Poly(±-Hydroxy Esters) Biocomposites Applications. Polymer Reviews, 2019, 59, 187-239.	5.3	8
28	Preparation and Characterisation of Polyethylene-Octene Grafted Maleic Anhydride-Toughened 70:30 PA6/PP/MMT Nanocomposites. Polymers and Polymer Composites, 2007, 15, 217-227.	1.0	7
29	Influence of MMT as reinforcement on rheological behavior, mechanical and morphological properties of recycled PET/ABS thermoplastic nanocomposites. Journal of Polymer Engineering, 2012, 32, .	0.6	6
30	Interactive effect of calcined eggshell and montmorillonite on the characteristics of polyvinyl alcohol blends. Journal of Vinyl and Additive Technology, 2018, 24, 324-338.	1.8	6
31	A Study of Specific Heat Capacity Functions of Polyvinyl Alcoholâ€Cassava Starch Blends. International Journal of Thermophysics, 2010, 31, 525-534.	1.0	5
32	Comparison of injection molding processability of polylactic acid and high density polyethylene via computational approach. Journal of Polymer Engineering, 2013, 33, 121-132.	0.6	5
33	Enhancement of mechanical and thermal properties of (Poly[vinyl alcohol])â€Dialdehyde starch composites via the incorporation of montmorillonite nanofillers. Journal of Vinyl and Additive Technology, 2017, 23, E128.	1.8	5
34	Measurement and simple equation models of the specific heats of neat and glycerolâ€Plasticized poly(vinyl alcohol). Journal of Vinyl and Additive Technology, 2012, 18, 198-203.	1.8	4
35	Thermal Properties of Poly(lactic Acid). , 2013, , 109-141.		4
36	Mechanical, thermal and water absorption properties of epoxy / acrylated epoxidized palm oil / montmorillonite nanocomposite. AIP Conference Proceedings, 2018, , .	0.3	3

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37	Interactive effect of electron beam irradiation and montmorillonite (MMT) on properties of polycarbonate (PC)/acrylonitrile butadiene styrene (ABS) nanocomposites. <i>Polymer Bulletin</i> , 2019, 76, 4627-4658.	1.7	2
38	Interactions and performance analysis of epoxidized palm oil/unsaturated polyester resin: Mechanical, thermal, and thermo-mechanical properties. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112210957.	1.0	2
39	Factorial design investigation on two-way quaternary factors of thermal aging of chlorinated nitrile latex tensile properties. <i>Journal of Elastomers and Plastics</i> , 2015, 47, 232-247.	0.7	1
40	Microwave effects on montmorillonite reinforced polyvinyl alcohol-starch nanocomposite. <i>Journal of Vinyl and Additive Technology</i> , 2017, 23, E142.	1.8	1