Ishak Ahmad

List of Publications by Year
in descending order

71 papers	5,852 citations	136950 32 h-index	110387 64 g-index
79 all docs	79 docs citations	79 times ranked	6519 citing authors

#	Article	IF	Citations
1	Development of grafted rubber/polyaniline/carboxymethyl cellulose film as green conductive polymer film. Polymer Bulletin, 2022, 79, 3829-3846.	3.3	6
2	Preparation and Characterization of Cellulose Nanocrystals from Typha sp. as a Reinforcing Agent. Journal of Natural Fibers, 2022, 19, 6182-6195.	3.1	12
3	Starch/Polyaniline Biopolymer Film as Potential Intelligent Food Packaging with Colourimetric Ammonia Sensor. Polymers, 2022, 14, 1122.	4.5	11
4	Cetyltrimethylammonium bromide-nanocrystalline cellulose (CTAB-NCC) based microemulsions for enhancement of topical delivery of curcumin. Carbohydrate Polymers, 2021, 254, 117401.	10.2	36
5	Eco-friendly high-density polyethylene/amorphous cellulose composites: Environmental and functional value. Journal of Cleaner Production, 2021, 290, 125886.	9.3	17
6	Functional Hydrophilic Membrane for Oilâ€“Water Separation Based on Modified Bio-Based Chitosanâ€“Gelatin. Polymers, 2021, 13, 1176.	4.5	12
7	Chemical treatment of grafted rubberâ€based conductive polymer film for homogeneity improvement. Journal of Applied Polymer Science, 2021, 138, 51455.	2.6	1
8	Aminosilanes grafted nanocrystalline cellulose from oil palm empty fruit bunch aerogel for carbon dioxide capture. Journal of Materials Research and Technology, 2021, 13, 2287-2296.	5.8	18
9	Comprehensive exploration of natural degradation of poly(lactic acid) blends in various degradation media: A review. International Journal of Biological Macromolecules, 2021, 187, 732-741.	7.5	74
10	Mechanical Properties of Recycled Plastics. Composites Science and Technology, 2021, , 239-258.	0.6	4
11	Drug delivery and inÂvitro biocompatibility studies of gelatin-nanocellulose smart hydrogels cross-linked with gamma radiation. Journal of Materials Research and Technology, 2021, 15, 7145-7157.	5.8	29
12	Influence of amorphous cellulose on mechanical, thermal, and hydrolytic degradation of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.3	33
13	Physicochemical Characterization of Bilayer Hybrid Nanocellulose-Collagen as a Potential Wound Dressing. Materials, 2020, 13, 4352.	2.9	14
14	pH-Responsive Gamma-Irradiated Poly(Acrylic Acid)-Cellulose-Nanocrystal-Reinforced Hydrogels. Polymers, 2020, 12, 1932.	4.5	22
15	Cauliflowerâ€like poly(3,4â€ethylenedioxythipohene)/nanocrystalline cellulose/manganese oxide ternary nanocomposite for supercapacitor. Journal of Applied Polymer Science, 2020, 137, 49162.	2.6	12
16	Effects of Hybridized Organically Modified Montmorillonite and Cellulose Nanocrystals on Rheological Properties and Thermal Stability of K-Carrageenan Bio-Nanocomposite. Nanomaterials, 2019, 9, 1547.	4.1	13
17	Effectiveness of cellulosic Agave angustifolia fibres on the performance of compatibilised poly(lactic) Tj ETQq1 1 0.784314 rgBT /Over	4.9	20
18	Nanocrystalline cellulose decorated quantum dots based tyrosinase biosensor for phenol determination. Materials Science and Engineering C, 2019, 99, 37-46.	7.3	78

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19	The remarkable three-dimensional network structure of bacterial cellulose for tissue engineering applications. International Journal of Pharmaceutics, 2019, 566, 631-640.	5.2	59
20	Application of polymethylmethacrylate-grafted cellulose as reinforcement for compatibilised polylactic acid/natural rubber blends. Carbohydrate Polymers, 2019, 213, 50-58.	10.2	35
21	Electrochemical performance of poly(3, 4-ethylenedioxythipohene)/nanocrystalline cellulose (PEDOT/NCC) film for supercapacitor. Carbohydrate Polymers, 2019, 203, 128-138.	10.2	51
22	Advances in cellulose nanomaterials. Cellulose, 2018, 25, 2151-2189.	4.9	329
23	Mechanical properties of chemically modified Sansevieria trifasciata/natural rubber/high density polyethylene (STF/NR/HDPE) composites: Effect of silane coupling agent. AIP Conference Proceedings, 2018, , .	0.4	0
24	Synergistic Effect of Hybridized Cellulose Nanocrystals and Organically Modified Montmorillonite on Î¹-Carrageenan Bionanocomposites. Nanomaterials, 2018, 8, 874.	4.1	22
25	Gamma Irradiation-Assisted Synthesis of Cellulose Nanocrystal-Reinforced Gelatin Hydrogels. Nanomaterials, 2018, 8, 749.	4.1	76
26	Synthesis and characterization of poly (benzyl trimethyl ammonium chloride) ionic polymer. AIP Conference Proceedings, 2018, , .	0.4	3
27	The contribution of eco-friendly bio-based blends on enhancing the thermal stability and biodegradability of Poly(lactic acid). Journal of Cleaner Production, 2018, 198, 987-995.	9.3	38
28	Rubber toughened polyester cellulose nanocomposites. AIP Conference Proceedings, 2018, , .	0.4	0
29	Hydrophobic kenaf nanocrystalline cellulose for the binding of curcumin. Carbohydrate Polymers, 2017, 163, 261-269.	10.2	93
30	Recent developments on nanocellulose reinforced polymer nanocomposites: A review. Polymer, 2017, 132, 368-393.	3.8	475
31	Starch biocomposite film reinforced by multiscale rice husk fiber. Composites Science and Technology, 2017, 151, 147-155.	7.8	100
32	Synthesis and Swelling Behavior of pH-Sensitive Semi-IPN Superabsorbent Hydrogels Based on Poly(acrylic acid) Reinforced with Cellulose Nanocrystals. Nanomaterials, 2017, 7, 399.	4.1	69
33	Effect of Aminosilane Modification on Nanocrystalline Cellulose Properties. Journal of Nanomaterials, 2016, 2016, 1-8.	2.7	47
34	Mechanical and thermal properties of natural rubber-modified poly(lactic acid) compatibilized with telechelic liquid natural rubber. Polymer Testing, 2016, 54, 196-202.	4.8	50
35	Cellulose nanocrystals extracted from rice husks as a reinforcing material in gelatin hydrogels for use in controlled drug delivery systems. Industrial Crops and Products, 2016, 93, 227-234.	5.2	207
36	Toughened polyester cellulose nanocomposites: Effects of cellulose nanocrystals and liquid epoxidized natural rubber on morphology and mechanical properties. Industrial Crops and Products, 2015, 72, 125-132.	5.2	17

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37	Cellulose nanocrystal reinforced liquid natural rubber toughened unsaturated polyester: Effects of filler content and surface treatment on its morphological, thermal, mechanical, and viscoelastic properties. Polymer, 2015, 71, 51-59.	3.8	54
38	Hydrophobic modification of cellulose isolated from Agave angustifolia fibre by graft copolymerisation using methyl methacrylate. Carbohydrate Polymers, 2015, 125, 69-75.	10.2	24
39	Cellulose nanocrystal: A promising toughening agent for unsaturated polyester nanocomposite. Polymer, 2015, 56, 346-357.	3.8	167
40	Functionalized liquid natural rubber and liquid epoxidized natural rubber: A promising green toughening agent for polyester. Journal of Applied Polymer Science, 2015, 132, .	2.6	40
41	Synthesis and Thermal Properties of Acrylonitrile/Butyl Acrylate/Fumaronitrile and Acrylonitrile/Ethyl Hexyl Acrylate/Fumaronitrile Terpolymers as a Potential Precursor for Carbon Fiber. Materials, 2014, 7, 6207-6223.	2.9	17
42	Potential of using multiscale kenaf fibers as reinforcing filler in cassava starch-kenaf biocomposites. Carbohydrate Polymers, 2013, 92, 2299-2305.	10.2	126
43	Potential of using polyester reinforced coconut fiber composites derived from recycling polyethylene terephthalate (PET) waste. Fibers and Polymers, 2013, 14, 584-590.	2.1	39
44	Composite polymer electrolytes based on MG49 and carboxymethyl cellulose from kenaf. AIP Conference Proceedings, 2013, , .	0.4	4
45	Physicochemical properties of phosphate ester from palm kernel oil. , 2013, , .		1
46	Cellulose nanocrystal from pomelo (C. Grandis osbeck) albedo: Chemical, morphology and crystallinity evaluation. AIP Conference Proceedings, 2013, , .	0.4	7
47	Physical properties of agave cellulose graft polymethyl methacrylate. , 2013, , .		1
48	Preparation of hybrid nano biocomposite Î¹-carrageenan/cellulose nanocrystal/nanoclay. , 2013, , .		3
49	Potential Use of Cellulose from Kenaf in Polymer Electrolytes Based on MG49 Rubber Composites. BioResources, 2013, 8, .	1.0	15
50	Isolation and Characterization of Cellulose Nanocrystals from Agave angustifolia Fibre. BioResources, 2013, 8, .	1.0	126
51	Effect of Fiber Content, Fiber Length and Alkali Treatment on Properties of Kenaf Fiber/UPR Composites Based on Recycled PET Wastes. Polymer-Plastics Technology and Engineering, 2012, 51, 634-639.	1.9	49
52	Effect of Chemical Treatment on Mechanical and Water-Sorption Properties Coconut Fiber-Unsaturated Polyester from Recycled PET. ISRN Materials Science, 2012, 2012, 1-8.	1.0	40
53	MORPHOLOGICAL, THERMAL, AND MECHANICAL PROPERTIES OF STARCH BIOCOMPOSITE FILMS REINFORCED BY CELLULOSE NANOCRYSTALS FROM RICE HUSKS. BioResources, 2012, 7, .	1.0	40
54	Effects of hydrolysis conditions on the morphology, crystallinity, and thermal stability of cellulose nanocrystals extracted from kenaf bast fibers. Cellulose, 2012, 19, 855-866.	4.9	674

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55	Synthesis and characterization of thermo- and pH-responsive bacterial cellulose/acrylic acid hydrogels for drug delivery. Carbohydrate Polymers, 2012, 88, 465-473.	10.2	341
56	Extraction of cellulose nanocrystals from mengkuang leaves (Pandanus tectorius). Carbohydrate Polymers, 2012, 88, 772-779.	10.2	402
57	Extraction, preparation and characterization of cellulose fibres and nanocrystals from rice husk. Industrial Crops and Products, 2012, 37, 93-99.	5.2	1,045
58	Effect of Fiber Loading and Compatibilizer on Rheological, Mechanical and Morphological Behaviors. Open Journal of Polymer Chemistry, 2012, 02, 31-41.	3.3	11
59	Effects of PBO fiber and clay on the mechanical, morphological, and dynamic mechanical properties of NR/HDPE blends. Polymer Engineering and Science, 2011, 51, 419-425.	3.1	9
60	Characterization of polyester composites from recycled polyethylene terephthalate reinforced with empty fruit bunch fibers. Materials & Design, 2011, 32, 4493-4501.	5.1	64
61	Reinforcement of natural rubber/high density polyethylene blends with electron beam irradiated liquid natural rubber-coated rice husk. Radiation Physics and Chemistry, 2010, 79, 906-911.	2.8	36
62	Preparation of Unsaturated Polyester Liquid Natural Rubber Reinforced by Montmorillonite. Journal of Reinforced Plastics and Composites, 2010, 29, 2834-2841.	3.1	10
63	Nylon-6/liquid natural rubber blends prepared via emulsion dispersion. Journal of Polymer Research, 2009, 16, 381-387.	2.4	25
64	Redox copolymerization of acrylonitrile with fumaronitrile as a precursor for carbon fibre. Journal of Polymer Research, 2007, 14, 379-385.	2.4	17
65	Effect of PE-g-MA-Compatibilizer on the Morphology and Mechanical Properties of 70/30 HDPE/ENR Blends. Polymer-Plastics Technology and Engineering, 2006, 45, 735-739.	1.9	18
66	Effects of fiber composition andgraft-copoly(ethylene/maleic anhydride) on thermoplastic natural rubber composites reinforced by aramid fiber. Polymer Composites, 2006, 27, 395-401.	4.6	27
67	Effects of Rice Husk Filler on the Mechanical and Thermal Properties of Liquid Natural Rubber Compatibilized High-Density Polyethylene/Natural Rubber Blends. Journal of Polymer Research, 2006, 13, 315-321.	2.4	132
68	Effect of Extrusion Rate and Fiber Loading on Mechanical Properties of Twaron Fiber-thermoplastic Natural Rubber (TPNR) Composites. Journal of Reinforced Plastics and Composites, 2006, 25, 957-965.	3.1	72
69	Effects of Clay and LNR on Mechanical Properties and Morphology of NR/HDPE-Aramid Composites. Polymer Journal, 2005, 37, 866-869.	2.7	2
70	Structural Characterisation of Cellulose and Nanocellulose Extracted from Mengkuang Leaves. Advanced Materials Research, 0, 545, 119-123.	0.3	7
71	Properties of Aminosilane Modified Nanocrytalline Cellulose (NCC) from Oil Palm Empty Fruit Bunch (OPEFB) Fibers. Materials Science Forum, 0, 888, 284-289.	0.3	8