Zuratul Ain Abdul Hamid

List of Publications by Year
in descending order

84 papers	1,483 citations	489802 18 h-index	406436 35 g-index
84 all docs	84 docs citations	84 times ranked	1919 citing authors

#	Article	IF	Citations
1	Green biosynthesis of hydroxyapatite-silver nanoparticle nanocomposite using aqueous Indian curry leaf (Murraya koengii) extract and its biological properties. Materials Chemistry and Physics, 2022, 277, 125455.	2.0	14
2	Preparation and Characterisation of Cellulose Nanocrystal/Alginate/Polyethylene Glycol Diacrylate (CNC/Alg/PEGDA) Hydrogel Using Double Network Crosslinking Technique for Bioprinting Application. Applied Sciences (Switzerland), 2022, 12, 771.	1.3	6
3	Tissue Engineering for Tracheal Replacement: Strategies and Challenges. Advances in Experimental Medicine and Biology, 2022, , 137-163.	0.8	3
4	Shape memory poly (glycerol sebacate)â€based electrospun fiber scaffolds for tissue engineering applications: A review. Journal of Applied Polymer Science, 2022, 139, .	1.3	7
5	Asymmetric resorbableâ€based dental barrier membrane for periodontal guided tissue regeneration and guided bone regeneration: A review. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 2157-2182.	1.6	18
6	Flame Retardant Coatings: Additives, Binders, and Fillers. Polymers, 2022, 14, 2911.	2.0	20
7	Thermal and rheological properties of self-fabricated polyethylene glycol-plasticized poly(lactic acid) filaments for fused deposition modeling. Progress in Rubber, Plastics and Recycling Technology, 2021, 37, 19-31.	0.8	6
8	Halochromic poly (lactic acid) film for acid base sensor. Journal of Applied Polymer Science, 2021, 138, 50093.	1.3	9
9	Potential Antioxidant and Anti-Inflammatory Effects of Spilanthes acmella and Its Health Beneficial Effects: A Review. International Journal of Environmental Research and Public Health, 2021, 18, 3532.	1.2	18
10	The Versatility of Polymeric Materials as Self-Healing Agents for Various Types of Applications: A Review. Polymers, 2021, 13, 1194.	2.0	38
11	Thermoâ€responsive shape memory properties based on polylactic acid and styreneâ€butadieneâ€styrene block copolymer. Journal of Applied Polymer Science, 2021, 138, 51000.	1.3	8
12	Synthesis of silver nanoparticle-decorated hydroxyapatite nanocomposite with combined bioactivity and antibacterial properties. Journal of Materials Science: Materials in Medicine, 2021, 32, 106.	1.7	47
13	Mechanical Properties and In Vitro Evaluation of Thermoplastic Polyurethane and Polylactic Acid Blend for Fabrication of 3D Filaments for Tracheal Tissue Engineering. Polymers, 2021, 13, 3087.	2.0	19
14	A Review on the Synthesis, Properties, and Utilities of Functionalized Carbon Nanoparticles for Polymer Nanocomposites. Polymers, 2021, 13, 3547.	2.0	28
15	Polysaccharide-Based Hydrogels for Microencapsulation of Stem Cells in Regenerative Medicine. Frontiers in Bioengineering and Biotechnology, 2021, 9, 735090.	2.0	19
16	Past and Current Progress in the Development of Antiviral/Antimicrobial Polymer Coating towards COVID-19 Prevention: A Review. Polymers, 2021, 13, 4234.	2.0	13
17	Phytochemical Analysis, Antioxidant and Bone Anabolic Effects of Blainvillea acmella (L.) Philipson. Frontiers in Pharmacology, 2021, 12, 796509.	1.6	7
18	Eco-friendly denture adhesives (EFDAs) filled with different types of natural starches: mechanical and biological performance evaluation. Journal of Adhesion Science and Technology, 2020, 34, 76-90.	1.4	3

#	Article	IF	Citations
19	Development and mechanical characterization of bilayer tubular scaffolds for vascular tissue engineering applications. Journal of Materials Science, 2020, 55, 2516-2529.	1.7	7
20	Fabrication of alginate microspheres for drug delivery: A review. International Journal of Biological Macromolecules, 2020, 153, 1035-1046.	3.6	181
21	Artificial Synaptic Behavior of Aloe Polysaccharides-Based Device with Au as Top Electrode. MRS Advances, 2020, 5, 693-698.	0.5	4
22	Converting dead leaf biomass into activated carbon as a potential replacement for carbon black filler in rubber composites. Composites Part B: Engineering, 2020, 201, 108366.	5.9	44
23	Influence of bed temperature on warpage, shrinkage and density of various acrylonitrile butadiene styrene (ABS) parts from fused deposition modelling (FDM). AIP Conference Proceedings, 2020, , .	0.3	16
24	Injectable hydrogel scaffold from natural biomaterials - An overview of recent studies. AIP Conference Proceedings, 2020, , .	0.3	3
25	The effect of amylose content and starch concentration on mechanical properties of eco-friendly denture adhesives (EFDAs). AIP Conference Proceedings, 2020, , .	0.3	0
26	Preliminary study on reactive compatibilisation of poly-lactic acid with maleic anhydride and dicumyl peroxide for fabrication of 3D printed filaments. AIP Conference Proceedings, 2020, , .	0.3	2
27	Evaluation of cell viability of porous scaffold fabricated via freeze-drying technique for vascular tissue engineering. , 2020, , .		1
28	Gentamicin loaded PLA microspheres susceptibility against Staphylococcus aureus and Escherichia coli by Kirby-Bauer and micro-dilution methods. AIP Conference Proceedings, 2020, , .	0.3	10
29	Osteoblasts migration, attachment and human bone marrow-mesenchymal stem cells osteogenic differentiation towards surface engineered and growth factors conjugated poly(lactic acid) microspheres. Journal of Materials Science: Materials in Medicine, 2020, 31, 45.	1.7	1
30	Effect of Formulation Variables on the Performance of Doxycycline-Loaded PLA Microsphere. Arabian Journal for Science and Engineering, 2020, 45, 7419-7428.	1.7	4
31	Enhanced mechanical properties of plasticized polylactic acid filament for fused deposition modelling: Effect of in situ heat treatment. Progress in Rubber, Plastics and Recycling Technology, 2020, 36, 131-142.	0.8	9
32	Hydroxyapatite derived from food industry bio-wastes: Syntheses, properties and its potential multifunctional applications. Ceramics International, 2020, 46, 17149-17175.	2.3	68
33	Synthesis and characterization of curcumin loaded alginate microspheres for drug delivery. Journal of Drug Delivery Science and Technology, 2020, 58, 101796.	1.4	31
34	Comparison of physical and mechanical properties of PLA, ABS and nylon 6 fabricated using fused deposition modeling and injection molding. Composites Part B: Engineering, 2019, 176, 107341.	5.9	195
35	Effect of the calcination temperature on the properties of natural hydroxyapatite derived from chicken bone wastes. Materials Today: Proceedings, 2019, 16, 1876-1885.	0.9	15
36	Antimicrobial activity evaluation for gentamicin loaded PLA microspheres. Materials Today: Proceedings, 2019, 16, 2060-2066.	0.9	2

#	Article	IF	Citations
37	Extraction of Metal Oxides from Coal Bottom Ash by Carbon Reduction and Chemical Leaching. Materials Today: Proceedings, 2019, 17, 727-735.	0.9	7
38	Fabrication and characterization of alginate microspheres. Materials Today: Proceedings, 2019, 17, 792-797.	0.9	8
39	Simulation of Alkali-Silica Reaction Model in a Concrete Gravity Dam at the Macroscale and Mesoscale. Materials Today: Proceedings, 2019, 17, 717-726.	0.9	3
40	Immobilization of Heavy Metals for Building Materials in the Construction Industry â€“ an Overview. Materials Today: Proceedings, 2019, 17, 787-791.	0.9	15
41	Controlled release studies through chitosan-based hydrogel synthesized at different polymerization stages. International Journal of Biological Macromolecules, 2019, 128, 531-536.	3.6	24
42	Switching Dynamics and Conductance Quantization of $Aloe$ Polysaccharides-Based Device. IEEE Transactions on Electron Devices, 2019, 66, 3110-3117.	1.6	14
43	Silane treatment of coated carbonate apatite scaffold affects bioactivity and cell viability. Journal of Physics: Conference Series, 2019, 1372, 012054.	0.3	4
44	Characterization of chicken bone waste-derived hydroxyapatite and its functionality on chitosan membrane for guided bone regeneration. Composites Part B: Engineering, 2019, 163, 562-573.	5.9	68
45	Surface Modification of Gentamicin-loaded Polylactic Acid (PLA) Microsphere Using Double Emulsion and Solvent Evaporation: Effect on Protein Adsorption and Drug Release Behaviour. Journal of Physical Science, 2019, 30, 109-124.	0.5	6
46	The Effect of Natural Antimicrobial Agents on Staphylococcus aureus and Escherichia coli Growth. Journal of Physical Science, 2019, 30, 55-63.	0.5	2
47	Approaches to Improve Therapeutic Efficacy of Biodegradable PLA/PLGA Microspheres: A Review. Polymer Reviews, 2018, 58, 495-536.	5.3	62
48	Preparation and optimization of surface-engineered poly(lactic acid) microspheres as a drug delivery device. Journal of Materials Science, 2018, 53, 4745-4758.	1.7	27
49	The effects of glutamine palmitic acid content on properties of high density polyethylene/silica composites. Journal of Vinyl and Additive Technology, 2018, 24, 217-223.	1.8	5
50	Synthesis and evaluation on pH- and temperature-responsive chitosan-p(MAA-co-NIPAM) hydrogels. International Journal of Biological Macromolecules, 2018, 108, 367-375.	3.6	58
51	Extraction of ferum from coal bottom ash using acid soluble and ion exchange leaching method. AIP Conference Proceedings, 2018, , .	0.3	0
52	Extraction of iron from coal bottom ash by carbon reduction method. AIP Conference Proceedings, 2018, , .	0.3	4
53	Surface Roughness, Hydrophilicity and Encapsulation Efficiency of Gentamicin Loaded Surface Engineered PLA Microspheres. Journal of Physics: Conference Series, 2018, 1082, 012068.	0.3	1
54	Thermal properties of silica-filled high density polyethylene composites compatibilized with glut palmitate. AIP Conference Proceedings, 2017, , .	0.3	0

#	Article	IF	Citations
55	Effect of silane coupling agents on the chemical and physical properties of photocrosslinked poly(dimethylsiloxane) dimethacrylate/poly(ethylene glycol) diacrylate hydrogel. AIP Conference Proceedings, 2017, , .	0.3	0
56	Surface Morphology and Hydrophilicity Evaluation of PLA Microspheres Treated with Boronhydride (NaBH₄) at Different Concentrations. Solid State Phenomena, 2017, 264, 140-143.	0.3	1
57	The Characteristics of the Smart Polymeras Temperature or pH-responsive Hydrogel. Procedia Chemistry, 2016, 19, 406-409.	0.7	19
58	Evaluation of UV-crosslinked Poly(ethylene glycol) Diacrylate/Poly(dimethylsiloxane) Dimethacrylate Hydrogel: Properties for Tissue Engineering Application. Procedia Chemistry, 2016, 19, 410-418.	0.7	25
59	Comparative study of glut palmitate salt and polyethylene grafted maleic anhydride compatibilizer on the properties of silica filled high-density polyethylene composites. Polymer Testing, 2016, 52, 104-110.	2.3	8
60	Development and Evaluation of Surface Modified Poly (lactic acid) Microsphere via Irradiation Techniques for Drug Delivery System. Procedia Chemistry, 2016, 19, 373-380.	0.7	2
61	The Effect of Acrylonitrile Concentration on Starch Grafted Acrylonitrile (ANS) Stability in Carboxylated Nitrile Butadiene Rubber (XNBR) Latex. Procedia Chemistry, 2016, 19, 770-775.	0.7	8
62	Dielectric Breakdown Strength and Flammability Properties of Flame Retardant Filler/PLLA-PLA Microsphere/Kenaf Fiber Composites. Procedia Chemistry, 2016, 19, 290-296.	0.7	10
63	The Development of Macroporous PEG-Based Hydrogel Scaffolds for Tissue Engineering Applications. Materials Science Forum, 2015, 819, 361-366.	0.3	0
64	The physical and degradation properties of starch-graft-acrylonitrile/carboxylated nitrile butadiene rubber latex films. Carbohydrate Polymers, 2015, 128, 1-10.	5.1	17
65	Effect of blend ratio on cure characteristics, tensile properties, thermal and swelling properties of micaâ€filled (ethyleneâ€propyleneâ€diene monomer)/(recycled ethyleneâ€propyleneâ€diene monomer) (EPDM/râ€EPDM) blends. Journal of Vinyl and Additive Technology, 2015, 21, 1-6.	1.8	13
66	Physico-chemical properties of solvent based etherification of sago starch. Industrial Crops and Products, 2015, 65, 397-405.	2.5	21
67	Preparation and Properties of Polyvinyl Alcohol/Banana Frond Flour Biodegradable Film. Progress in Rubber, Plastics and Recycling Technology, 2014, 30, 103-114.	0.8	10
68	Effect of silane coupling agent on the curing, tensile, thermal, and swelling properties of ethyleneâ€propyleneâ€diene monomer rubber (EPDM)/mica composites. Journal of Vinyl and Additive Technology, 2014, 20, 116-121.	1.8	7
69	In vivo studies of biocompatible PEG-based hydrogel scaffolds with biofactors. , 2014, , .		0
70	Comparison Effect of Mica and Talc as Filler in EPDM Composites on Curing, Tensile and Thermal Properties. Progress in Rubber, Plastics and Recycling Technology, 2013, 29, 109-122.	0.8	14
71	Effect of Silane Coupling Agent on the Curing, Tensile, Thermal, and Swelling Properties of EPDM/Mica Composites. Advanced Materials Research, 2012, 626, 641-651.	0.3	1
72	Hydrogel Scaffolds: Advanced Materials for Soft Tissue Re-growth. IFMBE Proceedings, 2011, , 831-835.	0.2	1

#	Article	IF	Citations
73	Epoxy-amine synthesised hydrogel scaffolds for soft-tissue engineering. Biomaterials, 2010, 31, 6454-6467.	5.7	57
74	Addition of Biological Functionality to Poly(Îµ-caprolactone) Films. Biomacromolecules, 2007, 8, 2416-2421.	2.6	17
75	Effect of Soya Bean Flour Content on Mechanical Properties and Biodegradability of Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	0
76	Effect of EDA/PEGDGE Mole Ratios on PEG-Based Hydrogel Scaffolds Properties. Advanced Materials Research, 0, 626, 681-685.	0.3	1
77	Effect of Synthesis Parameters on Size of the Biodegradable Poly (L-Lactide) (PLLA) Microspheres. Advanced Materials Research, 0, 858, 60-66.	0.3	4
78	Surface Engineered Poly(lactic acid) (PLA) Microspheres by Chemical Treatment for Drug Delivery System. Key Engineering Materials, 0, 594-595, 214-218.	0.4	18
79	Surface Modification of Poly(lactic acid) (PLA) via Alkaline Hydrolysis Degradation. Advanced Materials Research, 0, 970, 324-327.	0.3	27
80	Tensile Properties of Poly(L-Lactic) Acid(PLLA) Blends. Advanced Materials Research, 0, 1024, 179-183.	0.3	8
81	Poly (Vinyl Alcohol) in Fabrication of PLA Micro- and Nanoparticles Using Emulsion and Solvent Evaporation Technique. Advanced Materials Research, 0, 1024, 296-299.	0.3	6
82	Synthesis and Functionalization of Silicone Hydride Copolymer with Allyl Methacrylate via Hydrosilylation Method. Advanced Materials Research, 0, 1133, 216-220.	0.3	0
83	Surface Modification of Poly(Lactic Acid) Microspheres via Gamma Irradiation. Solid State Phenomena, 0, 264, 128-131.	0.3	2
84	Fabrication of Carbonate Apatite Based on Hydrothermal Reaction Using Freeze-Casted Î²-TCP Precursor. Solid State Phenomena, 0, 264, 50-53.	0.3	2