

# Zuratul Ain Abdul Hamid

## List of Publications by Year in descending order

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84  
papers

1,483  
citations

430843

18  
h-index

361001

35  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1757  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of physical and mechanical properties of PLA, ABS and nylon 6 fabricated using fused deposition modeling and injection molding. <i>Composites Part B: Engineering</i> , 2019, 176, 107341.	12.0	195
2	Fabrication of alginate microspheres for drug delivery: A review. <i>International Journal of Biological Macromolecules</i> , 2020, 153, 1035-1046.	7.5	181
3	Characterization of chicken bone waste-derived hydroxyapatite and its functionality on chitosan membrane for guided bone regeneration. <i>Composites Part B: Engineering</i> , 2019, 163, 562-573.	12.0	68
4	Hydroxyapatite derived from food industry bio-wastes: Syntheses, properties and its potential multifunctional applications. <i>Ceramics International</i> , 2020, 46, 17149-17175.	4.8	68
5	Approaches to Improve Therapeutic Efficacy of Biodegradable PLA/PLGA Microspheres: A Review. <i>Polymer Reviews</i> , 2018, 58, 495-536.	10.9	62
6	Synthesis and evaluation on pH- and temperature-responsive chitosan-p(MAA-co-NIPAM) hydrogels. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 367-375.	7.5	58
7	Epoxy-amine synthesised hydrogel scaffolds for soft-tissue engineering. <i>Biomaterials</i> , 2010, 31, 6454-6467.	11.4	57
8	Synthesis of silver nanoparticle-decorated hydroxyapatite nanocomposite with combined bioactivity and antibacterial properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 106.	3.6	47
9	Converting dead leaf biomass into activated carbon as a potential replacement for carbon black filler in rubber composites. <i>Composites Part B: Engineering</i> , 2020, 201, 108366.	12.0	44
10	The Versatility of Polymeric Materials as Self-Healing Agents for Various Types of Applications: A Review. <i>Polymers</i> , 2021, 13, 1194.	4.5	38
11	Synthesis and characterization of curcumin loaded alginate microspheres for drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 58, 101796.	3.0	31
12	A Review on the Synthesis, Properties, and Utilities of Functionalized Carbon Nanoparticles for Polymer Nanocomposites. <i>Polymers</i> , 2021, 13, 3547.	4.5	28
13	Surface Modification of Poly(lactic acid) (PLA) via Alkaline Hydrolysis Degradation. <i>Advanced Materials Research</i> , 0, 970, 324-327.	0.3	27
14	Preparation and optimization of surface-engineered poly(lactic acid) microspheres as a drug delivery device. <i>Journal of Materials Science</i> , 2018, 53, 4745-4758.	3.7	27
15	Evaluation of UV-crosslinked Poly(ethylene glycol) Diacrylate/Poly(dimethylsiloxane) Dimethacrylate Hydrogel: Properties for Tissue Engineering Application. <i>Procedia Chemistry</i> , 2016, 19, 410-418.	0.7	25
16	Controlled release studies through chitosan-based hydrogel synthesized at different polymerization stages. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 531-536.	7.5	24
17	Physico-chemical properties of solvent based etherification of sago starch. <i>Industrial Crops and Products</i> , 2015, 65, 397-405.	5.2	21
18	Flame Retardant Coatings: Additives, Binders, and Fillers. <i>Polymers</i> , 2022, 14, 2911.	4.5	20

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19	The Characteristics of the Smart Polymer as Temperature or pH-responsive Hydrogel. <i>Procedia Chemistry</i> , 2016, 19, 406-409.	0.7	19
20	Mechanical Properties and In Vitro Evaluation of Thermoplastic Polyurethane and Polylactic Acid Blend for Fabrication of 3D Filaments for Tracheal Tissue Engineering. <i>Polymers</i> , 2021, 13, 3087.	4.5	19
21	Polysaccharide-Based Hydrogels for Microencapsulation of Stem Cells in Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 735090.	4.1	19
22	Surface Engineered Poly(lactic acid) (PLA) Microspheres by Chemical Treatment for Drug Delivery System. <i>Key Engineering Materials</i> , 0, 594-595, 214-218.	0.4	18
23	Potential Antioxidant and Anti-Inflammatory Effects of <i>Spilanthes acmella</i> and Its Health Beneficial Effects: A Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3532.	2.6	18
24	Asymmetric resorbable chitosan-based dental barrier membrane for periodontal guided tissue regeneration and guided bone regeneration: A review. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 2157-2182.	3.4	18
25	Addition of Biological Functionality to Poly( $\epsilon$ -caprolactone) Films. <i>Biomacromolecules</i> , 2007, 8, 2416-2421.	5.4	17
26	The physical and degradation properties of starch-graft-acrylonitrile/carboxylated nitrile butadiene rubber latex films. <i>Carbohydrate Polymers</i> , 2015, 128, 1-10.	10.2	17
27	Influence of bed temperature on warpage, shrinkage and density of various acrylonitrile butadiene styrene (ABS) parts from fused deposition modelling (FDM). <i>AIP Conference Proceedings</i> , 2020, , .	0.4	16
28	Effect of the calcination temperature on the properties of natural hydroxyapatite derived from chicken bone wastes. <i>Materials Today: Proceedings</i> , 2019, 16, 1876-1885.	1.8	15
29	Immobilization of Heavy Metals for Building Materials in the Construction Industry – an Overview. <i>Materials Today: Proceedings</i> , 2019, 17, 787-791.	1.8	15
30	Comparison Effect of Mica and Talc as Filler in EPDM Composites on Curing, Tensile and Thermal Properties. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2013, 29, 109-122.	1.8	14
31	Switching Dynamics and Conductance Quantization of <i>Aloe</i> Polysaccharides-Based Device. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 3110-3117.	3.0	14
32	Green biosynthesis of hydroxyapatite-silver nanoparticle nanocomposite using aqueous Indian curry leaf ( <i>Murraya koengii</i> ) extract and its biological properties. <i>Materials Chemistry and Physics</i> , 2022, 277, 125455.	4.0	14
33	Effect of blend ratio on cure characteristics, tensile properties, thermal and swelling properties of mica-filled (ethylene-propylene diene monomer)/(recycled ethylene-propylene diene monomer) (EPDM/rEPDM) blends. <i>Journal of Vinyl and Additive Technology</i> , 2015, 21, 1-6.	3.4	13
34	Past and Current Progress in the Development of Antiviral/Antimicrobial Polymer Coating towards COVID-19 Prevention: A Review. <i>Polymers</i> , 2021, 13, 4234.	4.5	13
35	Preparation and Properties of Polyvinyl Alcohol/Banana Frond Flour Biodegradable Film. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2014, 30, 103-114.	1.8	10
36	Dielectric Breakdown Strength and Flammability Properties of Flame Retardant Filler/PLLA-PLA Microsphere/Kenaf Fiber Composites. <i>Procedia Chemistry</i> , 2016, 19, 290-296.	0.7	10

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37	Gentamicin loaded PLA microspheres susceptibility against Staphylococcus aureus and Escherichia coli by Kirby-Bauer and micro-dilution methods. AIP Conference Proceedings, 2020, , .	0.4	10
38	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.	1.8	9
39	Halochromic poly (lactic acid) film for acid base sensor. Journal of Applied Polymer Science, 2021, 138, 50093.	2.6	9
40	Tensile Properties of Poly(L-Lactic) Acid(PLLA) Blends. Advanced Materials Research, 0, 1024, 179-183.	0.3	8
41	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.	4.8	8
42	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
43	Fabrication and characterization of alginate microspheres. Materials Today: Proceedings, 2019, 17, 792-797.	1.8	8
44	Thermo-responsive shape memory properties based on polylactic acid and styrene-butadiene-styrene block copolymer. Journal of Applied Polymer Science, 2021, 138, 51000.	2.6	8
45	Effect of silane coupling agent on the curing, tensile, thermal, and swelling properties of ethylene-propylene-diene monomer rubber (EPDM)/mica composites. Journal of Vinyl and Additive Technology, 2014, 20, 116-121.	3.4	7
46	Extraction of Metal Oxides from Coal Bottom Ash by Carbon Reduction and Chemical Leaching. Materials Today: Proceedings, 2019, 17, 727-735.	1.8	7
47	Development and mechanical characterization of bilayer tubular scaffolds for vascular tissue engineering applications. Journal of Materials Science, 2020, 55, 2516-2529.	3.7	7
48	Phytochemical Analysis, Antioxidant and Bone Anabolic Effects of Blainvillea acmella (L.) Philipson. Frontiers in Pharmacology, 2021, 12, 796509.	3.5	7
49	Shape memory poly (glycerol sebacate)-based electrospun fiber scaffolds for tissue engineering applications: A review. Journal of Applied Polymer Science, 2022, 139, .	2.6	7
50	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
51	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.	1.8	6
52	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.	0.9	6
53	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.	2.5	6
54	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.	3.4	5

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55	Effect of Synthesis Parameters on Size of the Biodegradable Poly (L-Lactide) (PLLA) Microspheres. <i>Advanced Materials Research</i> , 0, 858, 60-66.	0.3	4
56	Extraction of iron from coal bottom ash by carbon reduction method. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
57	Silane treatment of coated carbonate apatite scaffold affects bioactivity and cell viability. <i>Journal of Physics: Conference Series</i> , 2019, 1372, 012054.	0.4	4
58	Artificial Synaptic Behavior of Aloe Polysaccharides-Based Device with Au as Top Electrode. <i>MRS Advances</i> , 2020, 5, 693-698.	0.9	4
59	Effect of Formulation Variables on the Performance of Doxycycline-Loaded PLA Microsphere. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7419-7428.	3.0	4
60	Simulation of Alkali-Silica Reaction Model in a Concrete Gravity Dam at the Macroscale and Mesoscale. <i>Materials Today: Proceedings</i> , 2019, 17, 717-726.	1.8	3
61	Eco-friendly denture adhesives (EFDAs) filled with different types of natural starches: mechanical and biological performance evaluation. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 76-90.	2.6	3
62	Injectable hydrogel scaffold from natural biomaterials - An overview of recent studies. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
63	Tissue Engineering for Tracheal Replacement: Strategies and Challenges. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 137-163.	1.6	3
64	Development and Evaluation of Surface Modified Poly (lactic acid) Microsphere via Irradiation Techniques for Drug Delivery System. <i>Procedia Chemistry</i> , 2016, 19, 373-380.	0.7	2
65	Surface Modification of Poly(Lactic Acid) Microspheres via Gamma Irradiation. <i>Solid State Phenomena</i> , 0, 264, 128-131.	0.3	2
66	Fabrication of Carbonate Apatite Based on Hydrothermal Reaction Using Freeze-Casted $\beta$ -TCP Precursor. <i>Solid State Phenomena</i> , 0, 264, 50-53.	0.3	2
67	Antimicrobial activity evaluation for gentamicin loaded PLA microspheres. <i>Materials Today: Proceedings</i> , 2019, 16, 2060-2066.	1.8	2
68	Preliminary study on reactive compatibilisation of poly-lactic acid with maleic anhydride and dicumyl peroxide for fabrication of 3D printed filaments. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2
69	The Effect of Natural Antimicrobial Agents on Staphylococcus aureus and Escherichia coli Growth. <i>Journal of Physical Science</i> , 2019, 30, 55-63.	0.9	2
70	Effect of Silane Coupling Agent on the Curing, Tensile, Thermal, and Swelling Properties of EPDM/Mica Composites. <i>Advanced Materials Research</i> , 2012, 626, 641-651.	0.3	1
71	Effect of EDA/PEGDGE Mole Ratios on PEG-Based Hydrogel Scaffolds Properties. <i>Advanced Materials Research</i> , 0, 626, 681-685.	0.3	1
72	Surface Morphology and Hydrophilicity Evaluation of PLA Microspheres Treated with Boronhydride ( $\text{NaBH}_4$ ) at Different Concentrations. <i>Solid State Phenomena</i> , 2017, 264, 140-143.	0.3	1

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73	Surface Roughness, Hydrophilicity and Encapsulation Efficiency of Gentamicin Loaded Surface Engineered PLA Microspheres. Journal of Physics: Conference Series, 2018, 1082, 012068.	0.4	1
74	Evaluation of cell viability of porous scaffold fabricated via freeze-drying technique for vascular tissue engineering. , 2020, , .		1
75	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.	3.6	1
76	Hydrogel Scaffolds: Advanced Materials for Soft Tissue Re-growth. IFMBE Proceedings, 2011, , 831-835.	0.3	1
77	Effect of Soya Bean Flour Content on Mechanical Properties and Biodegradability of Poly(vinyl Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	0.3	0
78	In vivo studies of biocompatible PEG-based hydrogel scaffolds with biofactors. , 2014, , .		0
79	The Development of Macroporous PEG-Based Hydrogel Scaffolds for Tissue Engineering Applications. Materials Science Forum, 2015, 819, 361-366.	0.3	0
80	Synthesis and Functionalization of Silicone Hydride Copolymer with Allyl Methacrylate via Hydrosilylation Method. Advanced Materials Research, 0, 1133, 216-220.	0.3	0
81	Thermal properties of silica-filled high density polyethylene composites compatibilized with glut palmitate. AIP Conference Proceedings, 2017, , .	0.4	0
82	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, , .	0.4	0
83	Extraction of ferum from coal bottom ash using acid soluble and ion exchange leaching method. AIP Conference Proceedings, 2018, , .	0.4	0
84	The effect of amylose content and starch concentration on mechanical properties of eco-friendly denture adhesives (EFDAs). AIP Conference Proceedings, 2020, , .	0.4	0