Aman Ullah

List of Publications by Year
in descending order

74 papers	2,317 citations	236833 25 h-index	223716 46 g-index
75 all docs	75 docs citations	75 times ranked	2701 citing authors

#	Article	IF	Citations
1	Liquid Intake of Organic Shales. Energy & Fuels, 2012, 26, 5750-5758.	2.5	273
2	Overview of wastewater treatment methods with special focus on biopolymer chitin-chitosan. International Journal of Biological Macromolecules, 2019, 121, 1086-1100.	3.6	183
3	Recent advances in protein derived bionanocomposites for food packaging applications. Critical Reviews in Food Science and Nutrition, 2020, 60, 406-434.	5.4	143
4	Chemical modification, characterization, and application of chicken feathers as novel biosorbents. RSC Advances, 2013, 3, 20800-20810.	1.7	113
5	Bioplastics from Feather Quill. Biomacromolecules, 2011, 12, 3826-3832.	2.6	107
6	Preparation, Characterization, and Properties of Novel PSMAâˆ’POSS Systems by Reactive Blending. Macromolecules, 2009, 42, 6614-6623.	2.2	85
7	Preparation and characterization of thermally crosslinked poly(vinyl alcohol)/feather keratin nanofiber scaffolds. Materials and Design, 2017, 133, 1-9.	3.3	83
8	Rapid Block Copolymer Synthesis by Microwave-Assisted RAFT Polymerization. Macromolecules, 2009, 42, 7701-7708.	2.2	69
9	In-Situ Nanoreinforced Green Bionanomaterials from Natural Keratin and Montmorillonite (MMT)/Cellulose Nanocrystals (CNC). ACS Sustainable Chemistry and Engineering, 2018, 6, 1977-1987.	3.2	61
10	Feather Fiberâ€Based Thermoplastics: Effects of Different Plasticizers on Material Properties. Macromolecular Materials and Engineering, 2013, 298, 153-162.	1.7	59
11	Hydrogels from feather keratin show higher viscoelastic properties and cell proliferation than those from hair and wool keratins. Materials Science and Engineering C, 2018, 90, 446-453.	3.8	56
12	In-situ modification, regeneration, and application of keratin biopolymer for arsenic removal. Journal of Hazardous Materials, 2014, 278, 360-371.	6.5	55
13	Unravelled keratin-derived biopolymers as novel biosorbents for the simultaneous removal of multiple trace metals from industrial wastewater. Science of the Total Environment, 2019, 647, 1539-1546.	3.9	54
14	Applications of Light-Emitting Diodes (LEDs) in Food Processing and Water Treatment. Food Engineering Reviews, 2020, 12, 268-289.	3.1	54
15	Keratin and Chitosan Biosorbents for Wastewater Treatment: A Review. Journal of Polymers and the Environment, 2019, 27, 1389-1403.	2.4	52
16	Methods of keratin extraction from poultry feathers and their effects on antioxidant activity of extracted keratin. International Journal of Biological Macromolecules, 2020, 148, 449-456.	3.6	52
17	Effect of high pressure treatment on ovotransferrin. Food Chemistry, 2012, 135, 2245-2252.	4.2	45
18	Fabrication of a Self-Healing, 3D Printable, and Reprocessable Biobased Elastomer. ACS Applied Materials & Interfaces, 2020, 12, 51927-51939.	4.0	41

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19	Green Biocomposites from Nanoengineered Hybrid Natural Fiber and Biopolymer. ACS Sustainable Chemistry and Engineering, 2016, 4, 1785-1793.	3.2	38
20	Modified biopolymers as sorbents for the removal of naphthenic acids from oil sands process affected water (OSPW). Chemosphere, 2016, 163, 334-341.	4.2	37
21	Molecular mechanism and characterization of self-assembly of feather keratin gelation. International Journal of Biological Macromolecules, 2018, 107, 290-296.	3.6	30
22	Recent Advances in Lipid Derived Bioâ€Based Materials for Food Packaging Applications. Macromolecular Materials and Engineering, 2021, 306, 2000799.	1.7	29
23	Potential Antiviral Action of Alkaloids. Molecules, 2022, 27, 903.	1.7	29
24	Potassium-doped mesoporous bioactive glass: Synthesis, characterization and evaluation of biomedical properties. Materials Science and Engineering C, 2017, 75, 836-844.	3.8	27
25	PEGâ€"lipid telechelics incorporating fatty acids from canola oil: synthesis, characterization and solution self-assembly. RSC Advances, 2014, 4, 26439.	1.7	25
26	Preparation and characterization of graphite oxide nanoâ€reinforced biocomposites from chicken feather keratin. Journal of Chemical Technology and Biotechnology, 2017, 92, 2023-2031.	1.6	25
27	Current progress in lipid-based biofuels: Feedstocks and production technologies. Bioresource Technology, 2022, 351, 127020.	4.8	23
28	Hybrid Bionanocomposites from Spent Hen Proteins. ACS Omega, 2019, 4, 3772-3781.	1.6	22
29	Feather keratin derived sorbents for the treatment of wastewater produced during energy generation processes. Chemosphere, 2021, 273, 128545.	4.2	22
30	Design and Synthesis of Arylthiophene-2-Carbaldehydes via Suzuki-Miyaura Reactions and Their Biological Evaluation. Molecules, 2013, 18, 14711-14725.	1.7	21
31	Remarkably Efficient Microwaveâ€Assisted Crossâ€Metathesis of Lipids under Solventâ€Free Conditions. ChemSusChem, 2017, 10, 2167-2174.	3.6	20
32	Mechanistic insight into protein supported biosorption complemented by kinetic and thermodynamics perspectives. Advances in Colloid and Interface Science, 2018, 261, 28-40.	7.0	20
33	Current Trends in the Utilization of Essential Oils for Polysaccharide- and Protein-Derived Food Packaging Materials. Polymers, 2022, 14, 1146.	2.0	19
34	Synthesis of lipid-based amphiphilic block copolymer and its evaluation as nano drug carrier. Materials Science and Engineering C, 2017, 76, 217-223.	3.8	18
35	Additive manufacturing ferromagnetic polymers using stereolithography â€" Materials and process development. Manufacturing Letters, 2019, 21, 12-16.	1.1	18
36	Recent findings in (Ti)POSS-based polymer systems. Polymer Bulletin, 2011, 67, 1169-1183.	1.7	16

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37	Degradation of Deoxynivalenol by Atmospheric-Pressure Cold Plasma and Sequential Treatments with Heat and UV Light. Food Engineering Reviews, 2021, 13, 696-705.	3.1	16
38	Concurrent Modelling and Experimental Investigation of Material Properties and Geometries Produced by Projection Microstereolithography. Polymers, 2020, 12, 506.	2.0	16
39	Chitosan-based materials for water and wastewater treatment. , 2020, , 773-809.		15
40	Influence of End-Capped Modifications in the Nonlinear Optical Amplitude of Nonfullerene-Based Chromophores with a Dâ^'Ï€â€"A Architecture: A DFT/TDDFT Study. ACS Omega, 2022, 7, 23532-23548.	1.6	15
41	Synthesis of Fully Biobased Polyesters from Plant Oil. ACS Sustainable Chemistry and Engineering, 2017, 5, 9793-9801.	3.2	14
42	Keratin as a Biopolymer. Springer Series on Polymer and Composite Materials, 2019, , 163-185.	0.5	14
43	Biopolymers in environmental applications. , 2021, , 331-349.		14
44	Extraction, optimization, and characterization of lipids from spent hens: An unexploited sustainable bioresource. Journal of Cleaner Production, 2019, 206, 622-630.	4.6	13
45	Synthesis and Characterization of Unsaturated Biobased-Polyamides from Plant Oil. ACS Sustainable Chemistry and Engineering, 2020, 8, 8049-8058.	3.2	13
46	Solvent-free rapid ethenolysis of fatty esters from spent hen and other lipidic feedstock with high turnover numbers. Journal of Industrial and Engineering Chemistry, 2020, 84, 42-45.	2.9	12
47	Biopolymers. , 2021, , 281-303.		11
48	Lipidâ€derived monomer and corresponding bioâ€based nanocomposites. Polymer International, 2016, 65, 653-660.	1.6	10
49	Effects of Ultrasoundâ€Assisted Alkaline Extraction on Antioxidant Activity and Functional Characteristics of Chicken Feather Keratin Peptides. ChemistrySelect, 2020, 5, 13788-13794.	0.7	10
50	Rapid, Metal-Free, Catalytic Conversion of Glycerol to Allyl Monomers and Polymers. ACS Sustainable Chemistry and Engineering, 2021, 9, 9474-9485.	3.2	10
51	Palladium (0) catalyzed Suzuki cross-coupling reactions of 2,4-dibromothiophene: selectivity, characterization and biological applications. Journal of Sulfur Chemistry, 2015, 36, 240-250.	1.0	9
52	Synthesis, crystal structure, experimental and theoretical investigations of 3-(4-ethoxy-3-methoxyphenyl)-1-phenylprop-2-en-1-one. Journal of Molecular Structure, 2017, 1127, 742-750.	1.8	8
53	Chitosan/chitin-based composites for food packaging applications. , 2020, , 641-670.		8
54	Lipid-derived hybrid bionanocomposites from spent hens. Materials Today Communications, 2020, 25, 101327.	0.9	7

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55	An Overview of the World Current and Future Assessment of Novel COVID-19 Trajectory, Impact, and Potential Preventive Strategies at Healthcare Settings. International Journal of Environmental Research and Public Health, 2020, 17, 7016.	1.2	7
56	Bio-composites from spent hen derived lipids grafted on CNC and reinforced with nanoclay. Carbohydrate Polymers, 2022, 281, 119082.	5.1	7
57	Microwave-assisted rapid synthesis of a polyether from a plant oil derived monomer and its optimization by Boxâ€“Behnken design. RSC Advances, 2017, 7, 27946-27959.	1.7	6
58	Rapid copolymerization of canola oil derived epoxide monomers with anhydrides and carbon dioxide (CO₂). Polymer Chemistry, 2017, 8, 6431-6442.	1.9	6
59	Synthesis, solid state self-assembly driven by antiparallel Ï€â‹¯Ï€ stacking and {â‹¯Hâ€“Câ€“Câ€“F}₂dimer synthons, and<i>in vitro</i>acetyl cholinesterase inhibition activity of phenoxy pendant isatins. RSC Advances, 2022, 12, 1788-1796.	1.7	6
60	Depolymerization of lignin into high-value products. Biocatalysis and Agricultural Biotechnology, 2022, 40, 102306.	1.5	6
61	Drug encapsulation and release behavior of telechelic nanoparticles. Nanotechnology, 2015, 26, 415703.	1.3	5
62	Supercritical CO2 extraction and solvent-free rapid alternative bioepoxy production from spent hens. Journal of CO2 Utilization, 2019, 34, 335-342.	3.3	5
63	Polymers for advanced applications. , 2020, , 325-340.		5
64	Chemical Modification of Lignin by Polymerization and Depolymerization. Springer Series on Polymer and Composite Materials, 2020, , 139-180.	0.5	5
65	Lipid-derived renewable amphiphilic nanocarriers for drug delivery, biopolymer-based formulations. , 2020, , 283-310.		4
66	Metal oxide powder technologies in catalysis. , 2020, , 279-297.		4
67	Nanocellulose: A sustainable and renewable material for water and wastewater treatment. , 2021, , 93-109.		4
68	Facile fabrication of graphene oxide/poly(styrene-co-methyl methacrylate) nanocomposite with high toughness and thermal stability. Materials Today Communications, 2020, 25, 101633.	0.9	3
69	Microwave-Assisted Catalytic Synthesis of Bio-Based Copolymers from Waste Cooking Oil. Materials, 2017, 10, 315.	1.3	2
70	New entâ€“Kaurane type Diterpene Glycoside, Pulicaroside-B, from Pulicaria Undulata L. Natural Product Communications, 2008, 3, 1934578X0800300.	0.2	1
71	Miscibility, properties, and biodegradability of chitin and chitosan. , 2020, , 377-399.		1
72	Renewable Biomaterials as Nanocarriers for Drug and Gene Delivery. , 2017, , 1-32.		1

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73	Switchable solvents for bio-refinery applications. , 2022, , 1-20.		0
74	Bionanocomposites from spent hen proteins reinforced with polyhedral oligomeric silsesquioxane (POSS)/cellulose nanocrystals (CNCs). Biocatalysis and Agricultural Biotechnology, 2022, , 102434.	1.5	0