

Muhammad Wajid Ullah

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

3,432
citations

35
h-index

55
g-index

132
ext. papers

4,700
ext. citations

7
avg, IF

6.02
L-index

#	Paper	IF	Citations
114	Methods for Predicting Ethylene/Cyclic Olefin Copolymerization Rates Promoted by Single-Site Metallocene: Kinetics Is the Key.. <i>Polymers</i> , 2022 , 14,	4.5	1
113	Interlayered modified hydroxides for removal of graphene oxide from water: Mechanism and secondary applications. <i>Separation and Purification Technology</i> , 2022 , 284, 120305	8.3	0
112	Production of bio-cellulose from renewable resources: Properties and applications 2022 , 307-339		0
111	Fabrication strategies and biomedical applications of three-dimensional bacterial cellulose-based scaffolds: A review.. <i>International Journal of Biological Macromolecules</i> , 2022 , 209, 9-30	7.9	6
110	Injectable immunomodulation-based porous chitosan microspheres/HPCH hydrogel composites as a controlled drug delivery system for osteochondral regeneration.. <i>Biomaterials</i> , 2022 , 285, 121530	15.6	5
109	Biological delignification of rice straw using laccase from <i>Bacillus ligniniphilus</i> L1 for bioethanol production: A clean approach for agro-biomass utilization. <i>Journal of Cleaner Production</i> , 2022 , 360, 132171	10.3	1
108	Microbiome as Cancer Biomarkers 2022 , 101-148		0
107	Bacterial cellulose: Molecular regulation of biosynthesis, supramolecular assembly, and tailored structural and functional properties. <i>Progress in Materials Science</i> , 2022 , 100972	42.2	4
106	Applications of Fungal Mycelium-Based Functional Biomaterials 2022 , 147-168		
105	Biobased materials for active food packaging: A review. <i>Food Hydrocolloids</i> , 2021 , 125, 107419	10.6	13
104	Silver Decorated Bacterial Cellulose Nanocomposites as Antimicrobial Food Packaging Materials. <i>ES Food & Agroforestry</i> , 2021 ,	3	9
103	A comparison of hepatotoxicity induced by different lengths of tungsten trioxide nanorods and the protective effects of melatonin in BALB/c mice. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 40793-40807	5.1	2
102	Bacteriophage-based advanced bacterial detection: Concept, mechanisms, and applications. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 112973	11.8	20
101	Perspective Applications and Associated Challenges of Using Nanocellulose in Treating Bone-Related Diseases. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 616555	5.8	11
100	Bacterial cellulose/glycolic acid/glycerol composite membrane as a system to deliver glycolic acid for anti-aging treatment. <i>Journal of Bioresources and Bioproducts</i> , 2021 , 6, 129-141	18.7	15
99	In Situ Synthesized Selenium Nanoparticles-Decorated Bacterial Cellulose/Gelatin Hydrogel with Enhanced Antibacterial, Antioxidant, and Anti-Inflammatory Capabilities for Facilitating Skin Wound Healing. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100402	10.1	29
98	Arsenic Trioxide-based Nanomedicines as a Therapeutic Combination Approach for Treating Gliomas: A Review. <i>Current Nanoscience</i> , 2021 , 17, 406-417	1.4	1

97	Bacterial Cellulose: A Versatile Material for Fabrication of Conducting Nanomaterials. <i>Current Nanoscience</i> , 2021 , 17, 393-405	1.4	5
96	Prevention and treatment of COVID-19: Focus on interferons, chloroquine/hydroxychloroquine, azithromycin, and vaccine. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 133, 111008	7.5	14
95	Bacterial cellulose: Trends in synthesis, characterization, and applications 2021 , 923-974		3
94	Recent developments in the synthesis, properties, and applications of various microbial polysaccharides 2021 , 975-1015		1
93	Preparation and evaluation of ion-exchange porous polyvinyl alcohol microspheres as a potential drug delivery embolization system. <i>Materials Science and Engineering C</i> , 2021 , 121, 111889	8.3	2
92	Synthesis and applications of fungal mycelium-based advanced functional materials. <i>Journal of Bioresources and Bioproducts</i> , 2021 , 6, 1-10	18.7	28
91	Synthesis and Characterization of High Strength Multipurpose Bacterial Cellulose- Hydrogels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 601988	5.8	9
90	Plant extract-loaded bacterial cellulose composite membrane for potential biomedical applications. <i>Journal of Bioresources and Bioproducts</i> , 2021 , 6, 26-32	18.7	31
89	Development and Characterization of Yeast-Incorporated Antimicrobial Cellulose Biofilms for Edible Food Packaging Application. <i>Polymers</i> , 2021 , 13,	4.5	17
88	Immobilized thrombin on X-ray radiopaque polyvinyl alcohol/chitosan embolic microspheres for precise localization and topical blood coagulation. <i>Bioactive Materials</i> , 2021 , 6, 2105-2119	16.7	8
87	Synergistic effect of highly aligned bacterial cellulose/gelatin membranes and electrical stimulation on directional cell migration for accelerated wound healing. <i>Chemical Engineering Journal</i> , 2021 , 424, 130563	14.7	23
86	Preparation and functionalization of zinc oxide nanoparticles with polymer microgels for potential catalytic applications. <i>Journal of Dispersion Science and Technology</i> , 2020 , 1-14	1.5	1
85	Fabrication of Bacterial Cellulose-Curcumin Nanocomposite as a Novel Dressing for Partial Thickness Skin Burn. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 553037	5.8	26
84	Water-stable and finasteride-loaded polyvinyl alcohol nanofibrous particles with sustained drug release for improved prostatic artery embolization - In vitro and in vivo evaluation. <i>Materials Science and Engineering C</i> , 2020 , 115, 111107	8.3	5
83	Production of bacterial cellulose from alternative cheap and waste resources: A step for cost reduction with positive environmental aspects. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 925-937	2.8	36
82	Fungi from the extremes of life: an untapped treasure for bioactive compounds. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 2777-2801	5.7	17
81	Development of finasteride/PHBV@polyvinyl alcohol/chitosan reservoir-type microspheres as a potential embolic agent: from in vitro evaluation to animal study. <i>Biomaterials Science</i> , 2020 , 8, 2797-2813	7.4	6
80	High-density phage particles immobilization in surface-modified bacterial cellulose for ultra-sensitive and selective electrochemical detection of <i>Staphylococcus aureus</i> . <i>Biosensors and Bioelectronics</i> , 2020 , 157, 112163	11.8	55

79	Biotemplate-Mediated Green Synthesis and Applications of Nanomaterials. <i>Current Pharmaceutical Design</i> , 2020 , 26, 5819-5836	3.3	5
78	Microencapsulation of Poorly Water-soluble Finasteride in Polyvinyl Alcohol/chitosan Microspheres as a Long-term Sustained Release System for Potential Embolization Applications. <i>Engineered Science</i> , 2020 ,	3.8	5
77	Fast 4-nitrophenol Reduction Using Gelatin Hydrogel Containing Silver Nanoparticles. <i>Engineered Science</i> , 2020 ,	3.8	8
76	Therapeutic Options for Treating COVID-19. <i>Engineered Science</i> , 2020 ,	3.8	2
75	Impact of COVID-19 on Environment Sustainability. <i>ES Energy & Environments</i> , 2020 ,	2.9	3
74	Potential Applications of Bacterial Cellulose in Environmental and Pharmaceutical Sectors. <i>Current Pharmaceutical Design</i> , 2020 , 26, 5793-5806	3.3	8
73	Impact of structural features of Sr/Fe co-doped HAp on the osteoblast proliferation and osteogenic differentiation for its application as a bone substitute. <i>Materials Science and Engineering C</i> , 2020 , 110, 110633	8.3	24
72	Synthesis and Characterization of Sintered Sr/Fe-Modified Hydroxyapatite Bioceramics for Bone Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 375-388	5.5	24
71	Silver Nanoparticles Embedded in Gelatin Biopolymer Hydrogel as Catalyst for Reductive Degradation of Pollutants. <i>Journal of Polymers and the Environment</i> , 2020 , 28, 399-410	4.5	19
70	Enhanced cell proliferation by electrical stimulation based on electroactive regenerated bacterial cellulose hydrogels. <i>Carbohydrate Polymers</i> , 2020 , 249, 116829	10.3	36
69	The use of bacterial polysaccharides in bioprinting. <i>Biotechnology Advances</i> , 2019 , 37, 107448	17.8	52
68	Fabrication and characterization of porous polycaprolactone scaffold via extrusion-based cryogenic 3D printing for tissue engineering. <i>Materials and Design</i> , 2019 , 180, 107946	8.1	55
67	Antimicrobial Inks: The Anti-Infective Applications of Bioprinted Bacterial Polysaccharides. <i>Trends in Biotechnology</i> , 2019 , 37, 1155-1159	15.1	21
66	Cryogenic free-form extrusion bioprinting of decellularized small intestinal submucosa for potential applications in skin tissue engineering. <i>Biofabrication</i> , 2019 , 11, 035023	10.5	35
65	Synthesis, Structure, and Properties of Bacterial Cellulose 2019 , 81-113		16
64	Fabrication of magnetic core shell particles coated with phenylalanine imprinted polymer. <i>Polymer Testing</i> , 2019 , 75, 262-269	4.5	9
63	Titanium oxide-bacterial cellulose bioadsorbent for the removal of lead ions from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 965-971	7.9	38
62	Development of three-dimensional bacterial cellulose/chitosan scaffolds: Analysis of cell-scaffold interaction for potential application in the diagnosis of ovarian cancer. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 1050-1059	7.9	45

61	Comparative study of plant and bacterial cellulose pellicles regenerated from dissolved states. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 247-252	7.9	37
60	Catechins-Modified Selenium-Doped Hydroxyapatite Nanomaterials for Improved Osteosarcoma Therapy Through Generation of Reactive Oxygen Species. <i>Frontiers in Oncology</i> , 2019 , 9, 499	5.3	22
59	Current trends and biomedical applications of resorbable polymers 2019 , 41-86		1
58	Fabrication of Thermally Stable Graphite-Based Poly(acrylonitrile-co-acrylic acid) Composite with Impressive Antimicrobial Properties. <i>Engineered Science</i> , 2019 ,	3.8	9
57	Fluorimetric Detection of Single Pathogenic Bacterium in Milk and Sewage Water Using pH-Sensitive Fluorescent Carbon Dots and MALDI-TOF MS. <i>Microorganisms</i> , 2019 , 8,	4.9	6
56	Applications of Phage-Based Biosensors in the Diagnosis of Infectious Diseases, Food Safety, and Environmental Monitoring 2019 ,		1
55	Principle and Development of Phage-Based Biosensors 2019 ,		3
54	Self-assembly of bio-cellulose nanofibrils through intermediate phase in a cell-free enzyme system. <i>Biochemical Engineering Journal</i> , 2019 , 142, 135-144	4.2	45
53	Three-dimensional printing of alginate-gelatin-agar scaffolds using free-form motor assisted microsyringe extrusion system. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	25
52	Fabrication of nanocomposites and hybrid materials using microbial biotemplates. <i>Advanced Composites and Hybrid Materials</i> , 2018 , 1, 79-93	8.7	19
51	Bioprinting and its applications in tissue engineering and regenerative medicine. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 261-275	7.9	172
50	Nano-gold assisted highly conducting and biocompatible bacterial cellulose-PEDOT:PSS films for biology-device interface applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 865-873	7.9	38
49	Bacterial biosensing: Recent advances in phage-based bioassays and biosensors. <i>Biosensors and Bioelectronics</i> , 2018 , 118, 204-216	11.8	64
48	Current Trends and Potential Applications of Microbial Interactions for Human Welfare. <i>Frontiers in Microbiology</i> , 2018 , 9, 1156	5.7	53
47	Introduction to Science and Engineering Principles for the Development of Bioinspired Materials 2018 , 1-16		
46	Electroconductive Bioscaffolds for 2D and 3D Cell Culture 2018 , 131-147		
45	Simultaneous co-substitution of Sr ²⁺ /Fe ³⁺ in hydroxyapatite nanoparticles for potential biomedical applications. <i>Ceramics International</i> , 2018 , 44, 21338-21348	5.1	28
44	Current Challenges of Cancer Anti-angiogenic Therapy and the Promise of Nanotherapeutics. <i>Theranostics</i> , 2018 , 8, 533-548	12.1	119

43	Amphiphilic core-shell nanoparticles: Synthesis, biophysical properties, and applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 172, 68-81	6	26
42	Surface engineering of microbial cells: Strategies and applications. <i>Engineered Science</i> , 2018 ,	3.8	9
41	Fabrication of pH-electroactive Bacterial Cellulose/Polyaniline Hydrogel for the Development of a Controlled Drug Release System. <i>ES Materials & Manufacturing</i> , 2018 ,	3.7	35
40	Encapsulation of E. coli in biomimetic and FeO-doped hydrogel: structural and viability analyses. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 933-944	5.7	14
39	Preparation and structural characterization of surface modified microporous bacterial cellulose scaffolds: A potential material for skin regeneration applications in vitro and in vivo. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 1200-1210	7.9	72
38	Fabrication of bacterial cellulose/polyaniline/single-walled carbon nanotubes membrane for potential application as biosensor. <i>Carbohydrate Polymers</i> , 2017 , 163, 62-69	10.3	91
37	Strategies for cost-effective and enhanced production of bacterial cellulose. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 1166-1173	7.9	119
36	Recent advancements in bioreactions of cellular and cell-free systems: A study of bacterial cellulose as a model. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 1591-1599	2.8	35
35	Current advancements of magnetic nanoparticles in adsorption and degradation of organic pollutants. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 12713-12722	5.1	30
34	A transparent wound dressing based on bacterial cellulose whisker and poly(2-hydroxyethyl methacrylate). <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 638-644	7.9	85
33	Microbes as Structural Templates in Biofabrication: Study of Surface Chemistry and Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11163-11175	8.3	32
32	Application of Sodium Alginate Hydrogel. <i>IOSR Journal of Biotechnology and Biochemistry</i> , 2017 , 03, 19-31		10
31	Microbial Cells with a Fe O Doped Hydrogel Extracellular Matrix: Manipulation of Living Cells by Magnetic Stimulus. <i>Macromolecular Bioscience</i> , 2016 , 16, 1506-1514	5.5	18
30	Three-dimensionally microporous and highly biocompatible bacterial cellulose/gelatin composite scaffolds for tissue engineering applications. <i>RSC Advances</i> , 2016 , 6, 110840-110849	3.7	53
29	In situ synthesis of a bio-cellulose/titanium dioxide nanocomposite by using a cell-free system. <i>RSC Advances</i> , 2016 , 6, 22424-22435	3.7	48
28	Metabolic engineering of synthetic cell-free systems: Strategies and applications. <i>Biochemical Engineering Journal</i> , 2016 , 105, 391-405	4.2	39
27	Structural and physico-mechanical characterization of bio-cellulose produced by a cell-free system. <i>Carbohydrate Polymers</i> , 2016 , 136, 908-16	10.3	94
26	Recent Advancement in Cellulose based Nanocomposite for Addressing Environmental Challenges. <i>Recent Patents on Nanotechnology</i> , 2016 , 10, 169-180	1.2	47

25	Overview on the Role of Advance Genomics in Conservation Biology of Endangered Species. <i>International Journal of Genomics</i> , 2016 , 2016, 3460416	2.5	15
24	Role of Recombinant DNA Technology to Improve Life. <i>International Journal of Genomics</i> , 2016 , 2016, 2405954	2.5	76
23	Electroconductive natural polymer-based hydrogels. <i>Biomaterials</i> , 2016 , 111, 40-54	15.6	230
22	Synthesis and characterization of a novel bacterial cellulose/poly(3,4-ethylenedioxythiophene)/poly(styrene sulfonate) composite for use in biomedical applications. <i>Cellulose</i> , 2015 , 22, 2141-2148	5.5	30
21	Innovative production of bio-cellulose using a cell-free system derived from a single cell line. <i>Carbohydrate Polymers</i> , 2015 , 132, 286-94	10.3	88
20	Production, characterization and biological features of bacterial cellulose from scum obtained during preparation of sugarcane jaggery (gur). <i>Journal of Food Science and Technology</i> , 2015 , 52, 8343-9	3.3	33
19	Bacterial cellulose-poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) composites for optoelectronic applications. <i>Carbohydrate Polymers</i> , 2015 , 127, 86-93	10.3	61
18	Encapsulated yeast cell-free system: A strategy for cost-effective and sustainable production of bio-ethanol in consecutive batches. <i>Biotechnology and Bioprocess Engineering</i> , 2015 , 20, 561-575	3.1	20
17	Engineered regenerated bacterial cellulose scaffolds for application in in vitro tissue regeneration. <i>RSC Advances</i> , 2015 , 5, 84565-84573	3.7	31
16	Endogenous Hydrolyzing Enzymes: Isolation, Characterization, and Applications in Biological Processes 2015 , 535-579		1
15	Synthesis, Chemistry, and Medical Application of Bacterial Cellulose Nanocomposites. <i>Advanced Structured Materials</i> , 2015 , 399-437	0.6	12
14	Structure, Chemistry and Pharmaceutical Applications of Biodegradable Polymers 2015 , 517-540		3
13	Bacterial cellulose composites: Synthetic strategies and multiple applications in bio-medical and electro-conductive fields. <i>Biotechnology Journal</i> , 2015 , 10, 1847-61	5.6	93
12	Enhanced bio-ethanol production via simultaneous saccharification and fermentation through a cell free enzyme system prepared by disintegration of waste of beer fermentation broth. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 694-701	2.8	15
11	Bacterial cellulose-titanium dioxide nanocomposites: nanostructural characteristics, antibacterial mechanism, and biocompatibility. <i>Cellulose</i> , 2015 , 22, 565-579	5.5	118
10	Antimicrobial and biocompatible properties of nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 780-91	1.3	21
9	Synthesis of regenerated bacterial cellulose-zinc oxide nanocomposite films for biomedical applications. <i>Cellulose</i> , 2014 , 21, 433-447	5.5	158
8	Developmental strategies and regulation of cell-free enzyme system for ethanol production: a molecular prospective. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 9561-78	5.7	24

7	Bio-ethanol production through simultaneous saccharification and fermentation using an encapsulated reconstituted cell-free enzyme system. <i>Biochemical Engineering Journal</i> , 2014 , 91, 110-119 ^{4.2}	35
6	Yeast cell-free enzyme system for bio-ethanol production at elevated temperatures. <i>Process Biochemistry</i> , 2014 , 49, 357-364	4.8 37
5	Endogenous Hydrolyzing Enzymes: Isolation, Characterization, and Applications in Biological Processes 2014 , 1-38	
4	Ex situ development and characterization of green antibacterial bacterial cellulose-based composites for potential biomedical applications. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7 8
3	Development and characterization of plant oil-incorporated carboxymethyl cellulose/bacterial cellulose/glycerol-based antimicrobial edible films for food packaging applications. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7 4
2	Recent Advances in Biopolymer Composites for Environmental Issues673-691	1
1	Biotransformation of nylon-6,6 hydrolysate to bacterial cellulose. <i>Green Chemistry</i> ,	10 4