

Mazhar Ul-Islam

List of Publications by Year in descending order

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105
papers

5,864
citations

61984

43
h-index

76900

74
g-index

109
all docs

109
docs citations

109
times ranked

4684
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Nigella sativa</i> L. seeds extract assisted synthesis of silver nanoparticles and their antibacterial and catalytic performance. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3185-3196.	3.1	2
2	Ex situ development and characterization of green antibacterial bacterial cellulose-based composites for potential biomedical applications. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 307-321.	21.1	62
3	Biobased materials for active food packaging: A review. <i>Food Hydrocolloids</i> , 2022, 125, 107419.	10.7	110
4	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> , 2022, 5, 973-990.	21.1	55
5	Preparation, Characterization, and Biological Features of Cactus Coated Bacterial Cellulose Hydrogels. <i>Gels</i> , 2022, 8, 88.	4.5	3
6	Multiwalled carbon nanotubes functionalized bacterial cellulose as an efficient healing material for diabetic wounds. <i>International Journal of Biological Macromolecules</i> , 2022, 203, 256-267.	7.5	27
7	Nitrogen and Sulfur Co-doped Two-Dimensional Highly Porous Carbon Nanosheets for High-Performance Lithium Sulfur Batteries. <i>Energy & Fuels</i> , 2022, 36, 2220-2227.	5.1	15
8	Production of bio-cellulose from renewable resources: Properties and applications. , 2022, , 307-339.		1
9	Traditional and recently advanced synthetic routes of the metal oxide materials. , 2022, , 79-99.		0
10	Synthetic Methodologies and Energy Storage/Conversion Applications of Porous Carbon Nanosheets: A Systematic Review. <i>Energy & Fuels</i> , 2022, 36, 3420-3442.	5.1	12
11	Nickel oxide and carboxymethyl cellulose composite beads as catalyst for the pollutant degradation. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3585-3595.	3.1	6
12	Microwave-assisted synthesis of a magnetic core-shell material composed of Fe ₃ O ₄ @SiO ₂ @poly(methacrylamide-co-acrylic acid) for an anticancer drug loading. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3547-3554.	3.1	3
13	Efficient fabrication, antibacterial and catalytic performance of Ag-NiO loaded bacterial cellulose paper. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 917-926.	7.5	5
14	Silver impregnated bacterial cellulose-chitosan composite hydrogels for antibacterial and catalytic applications. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2037-2047.	5.8	11
15	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.	7.5	42
16	Editorial: Nanocellulose: A Multipurpose Advanced Functional Material, Volume II. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	4.1	6
17	Bacterial cellulose: Molecular regulation of biosynthesis, supramolecular assembly, and tailored structural and functional properties. <i>Progress in Materials Science</i> , 2022, 129, 100972.	32.8	71
18	Potential applications of bacterial cellulose and its composites for cancer treatment. <i>International Journal of Biological Macromolecules</i> , 2021, 168, 301-309.	7.5	45

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19	Enhanced impact-resistance of aeronautical quasi-isotropic composite plates through diffused water molecules in epoxy. <i>Scientific Reports</i> , 2021, 11, 1775.	3.3	6
20	Bacterial cellulose: Trends in synthesis, characterization, and applications. , 2021, , 923-974.		6
21	Recent developments in the synthesis, properties, and applications of various microbial polysaccharides. , 2021, , 975-1015.		2
22	Development of bactericidal spinel ferrite nanoparticles with effective biocompatibility for potential wound healing applications. <i>RSC Advances</i> , 2021, 11, 1773-1782.	3.6	21
23	Synthesis of silver nanoparticles-decorated poly(<i>m</i> -aminophenol) nanofibers and their application in a non-enzymatic glucose biosensor. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2021, 58, 461-471.	2.2	18
24	Synthesis and applications of fungal mycelium-based advanced functional materials. <i>Journal of Bioresources and Bioproducts</i> , 2021, 6, 1-10.	20.5	95
25	Ex situ Synthesis and Characterization of High Strength Multipurpose Bacterial Cellulose-Aloe vera Hydrogels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 601988.	4.1	28
26	Plant extract-loaded bacterial cellulose composite membrane for potential biomedical applications. <i>Journal of Bioresources and Bioproducts</i> , 2021, 6, 26-32.	20.5	118
27	Antibacterial and Catalytic Performance of Green Synthesized Silver Nanoparticles Embedded in Crosslinked PVA Sheet. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3252-3262.	5.0	15
28	Bacterial Cellulose: A Versatile Material for Fabrication of Conducting Nanomaterials. <i>Current Nanoscience</i> , 2021, 17, 393-405.	1.2	10
29	Bio-nanocomposite for Medical and Environmental Applications. <i>Current Nanoscience</i> , 2021, 17, 349-350.	1.2	0
30	Development and Characterization of Yeast-Incorporated Antimicrobial Cellulose Biofilms for Edible Food Packaging Application. <i>Polymers</i> , 2021, 13, 2310.	4.5	46
31	Adopting a green method for the synthesis of gold nanoparticles on cotton cloth for antimicrobial and environmental applications. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103327.	4.9	29
32	MnMoO ₄ nanorods-encapsulated carbon nanofibers hybrid mat as binder-free electrode for flexible asymmetric supercapacitors. <i>Materials Science in Semiconductor Processing</i> , 2021, 136, 106176.	4.0	30
33	Photocatalytic degradation of organic dyes by U ₃ MnO ₁₀ nanoparticles under UV and sunlight. <i>Inorganic Chemistry Communication</i> , 2021, 134, 109075.	3.9	7
34	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.	2.7	98
35	Biotemplate-Mediated Green Synthesis and Applications of Nanomaterials. <i>Current Pharmaceutical Design</i> , 2020, 26, 5819-5836.	1.9	14
36	Potential Applications of Bacterial Cellulose in Environmental and Pharmaceutical Sectors. <i>Current Pharmaceutical Design</i> , 2020, 26, 5793-5806.	1.9	13

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37	Emerging Materials for Environmental and Pharmaceutical Sectors. <i>Current Pharmaceutical Design</i> , 2020, 26, 5765-5766.	1.9	0
38	Nanocurcumin: A Double-Edged Sword for Microcancers. <i>Current Pharmaceutical Design</i> , 2020, 26, 5783-5792.	1.9	3
39	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.	7.5	76
40	Comparative study of plant and bacterial cellulose pellicles regenerated from dissolved states. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 247-252.	7.5	76
41	Microwave Assisted Synthesis and Carboxymethyl Cellulose Stabilized Copper Nanoparticles on Bacterial Cellulose Nanofibers Support for Pollutants Degradation. <i>Journal of Polymers and the Environment</i> , 2019, 27, 2867-2877.	5.0	55
42	Fabrication of magnetic core shell particles coated with phenylalanine imprinted polymer. <i>Polymer Testing</i> , 2019, 75, 262-269.	4.8	16
43	Self-assembly of bio-cellulose nanofibrils through intermediate phase in a cell-free enzyme system. <i>Biochemical Engineering Journal</i> , 2019, 142, 135-144.	3.6	80
44	Development of modified montmorillonite-bacterial cellulose nanocomposites as a novel substitute for burn skin and tissue regeneration. <i>Carbohydrate Polymers</i> , 2019, 206, 548-556.	10.2	102
45	A Novel Solar Water Sterilization Design: Targeted to Provide Potable Water for a Community of 50 People. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.8	1
46	Synthesis, MR Relaxivities, and In Vitro Cytotoxicity of 3,5-Diiodo-L-tyrosine-Coated Gd ₂ O ₃ Nanoparticles. <i>BioNanoScience</i> , 2019, 9, 179-185.	3.5	0
47	Core-Shell Molecularly Imprinted Polymer Nanocomposites for Biomedical and Environmental Applications. <i>Current Pharmaceutical Design</i> , 2019, 25, 3633-3644.	1.9	6
48	Switching from Conventional to Nano-natural Phytochemicals to Prevent and Treat Cancers: Special Emphasis on Resveratrol. <i>Current Pharmaceutical Design</i> , 2019, 25, 3620-3632.	1.9	8
49	Comparative Synthesis and Characterization of Bio-Cellulose from Local Waste and Cheap Resources. <i>Current Pharmaceutical Design</i> , 2019, 25, 3664-3671.	1.9	8
50	Preparation and Characterization of Agar Based Magnetic Nanocomposite for Potential Biomedical Applications. <i>Current Pharmaceutical Design</i> , 2019, 25, 3672-3680.	1.9	5
51	Chitosan-coated cotton cloth supported copper nanoparticles for toxic dye reduction. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 832-838.	7.5	167
52	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.	7.5	53
53	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.	7.5	96
54	Failure of Chemotherapy in Hepatocellular Carcinoma Due to Impaired and Dysregulated Primary Liver Drug Metabolizing Enzymes and Drug Transport Proteins: What to Do?. <i>Current Drug Metabolism</i> , 2018, 19, 819-829.	1.2	7

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55	Bacterial cellulose-zinc oxide nanocomposites as a novel dressing system for burn wounds. Carbohydrate Polymers, 2017, 164, 214-221.	10.2	265
56	Thermal decomposition of metal complex precursor as route to the synthesis of Co ₃ O ₄ nanoparticles: Antibacterial activity and mechanism. Journal of Alloys and Compounds, 2017, 704, 296-302.	5.5	77
57	Strategies for cost-effective and enhanced production of bacterial cellulose. International Journal of Biological Macromolecules, 2017, 102, 1166-1173.	7.5	192
58	Recent advancements in bioreactions of cellular and cell-free systems: A study of bacterial cellulose as a model. Korean Journal of Chemical Engineering, 2017, 34, 1591-1599.	2.7	52
59	Current advancements of magnetic nanoparticles in adsorption and degradation of organic pollutants. Environmental Science and Pollution Research, 2017, 24, 12713-12722.	5.3	42
60	Bacterial cellulose-TiO ₂ nanocomposites promote healing and tissue regeneration in burn mice model. RSC Advances, 2017, 7, 47662-47668.	3.6	131
61	Facile synthesis of hair-extract-capped gold and silver nanoparticles and their biological applications. RSC Advances, 2016, 6, 113452-113456.	3.6	8
62	Three-dimensionally microporous and highly biocompatible bacterial cellulose-gelatin composite scaffolds for tissue engineering applications. RSC Advances, 2016, 6, 110840-110849.	3.6	67
63	In situ synthesis of a bio-cellulose/titanium dioxide nanocomposite by using a cell-free system. RSC Advances, 2016, 6, 22424-22435.	3.6	62
64	Metabolic engineering of synthetic cell-free systems: Strategies and applications. Biochemical Engineering Journal, 2016, 105, 391-405.	3.6	56
65	Structural and physico-mechanical characterization of bio-cellulose produced by a cell-free system. Carbohydrate Polymers, 2016, 136, 908-916.	10.2	124
66	Recent Advancement in Cellulose based Nanocomposite for Addressing Environmental Challenges. Recent Patents on Nanotechnology, 2016, 10, 169-180.	1.3	63
67	Effective Role of Magnetic Core-Shell Nanocomposites in Removing Organic and Inorganic Wastes from Water. Recent Patents on Nanotechnology, 2016, 10, 202-212.	1.3	15
68	Effective Role of Magnetic Core-Shell Nanocomposites in Removing Organic Wastes from Water. Recent Patents on Nanotechnology, 2016, , .	1.3	0
69	Bacterial cellulose composites: Synthetic strategies and multiple applications in bio-medical and electro-conductive fields. Biotechnology Journal, 2015, 10, 1847-1861.	3.5	124
70	Enhanced bio-ethanol production via simultaneous saccharification and fermentation through a cell free enzyme system prepared by disintegration of waste of beer fermentation broth. Korean Journal of Chemical Engineering, 2015, 32, 694-701.	2.7	17
71	Production, Characterization and Physico-mechanical Properties of Bacterial Cellulose from Industrial Wastes. Journal of Polymers and the Environment, 2015, 23, 45-53.	5.0	46
72	Bacterial cellulose-titanium dioxide nanocomposites: nanostructural characteristics, antibacterial mechanism, and biocompatibility. Cellulose, 2015, 22, 565-579.	4.9	143

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73	Synthesis and characterization of a novel bacterial celluloseâ€“poly(3,4-ethylenedioxythiophene)â€“poly(styrene sulfonate) composite for use in biomedical applications. <i>Cellulose</i> , 2015, 22, 2141-2148.	4.9	40
74	Innovative production of bio-cellulose using a cell-free system derived from a single cell line. <i>Carbohydrate Polymers</i> , 2015, 132, 286-294.	10.2	136
75	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, 8343-8349.	2.8	48
76	Bacterial celluloseâ€“poly(3,4-ethylenedioxythiophene)â€“poly(styrenesulfonate) composites for optoelectronic applications. <i>Carbohydrate Polymers</i> , 2015, 127, 86-93.	10.2	89
77	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.	2.6	29
78	Engineered regenerated bacterial cellulose scaffolds for application in in vitro tissue regeneration. <i>RSC Advances</i> , 2015, 5, 84565-84573.	3.6	45
79	Endogenous Hydrolyzing Enzymes: Isolation, Characterization, and Applications in Biological Processes. , 2015, , 535-579.		2
80	Adsorption and photocatalyst assisted dye removal and bactericidal performance of ZnO/chitosan coating layer. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 584-590.	7.5	137
81	Synthesis, Chemistry, and Medical Application of Bacterial Cellulose Nanocomposites. <i>Advanced Structured Materials</i> , 2015, , 399-437.	0.5	13
82	Multifunctional Polymeric Nanocurcumin for Cancer Therapy. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 803-814.	0.9	26
83	Interaction of Nanomaterials with Cells and Their Medical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 744-754.	0.9	16
84	Antimicrobial and Biocompatible Properties of Nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 780-791.	0.9	23
85	Synthesis of regenerated bacterial cellulose-zinc oxide nanocomposite films for biomedical applications. <i>Cellulose</i> , 2014, 21, 433-447.	4.9	187
86	Developmental strategies and regulation of cell-free enzyme system for ethanol production: a molecular prospective. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9561-9578.	3.6	34
87	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.	3.6	43
88	Yeast cell-free enzyme system for bio-ethanol production at elevated temperatures. <i>Process Biochemistry</i> , 2014, 49, 357-364.	3.7	41
89	Endogenous Hydrolyzing : Isolation, Characterization, and Applications in Biological Processes. , 2014, , 1-38.		0
90	Challenges in the development of drugs for the treatment of tuberculosis. <i>Brazilian Journal of Infectious Diseases</i> , 2013, 17, 74-81.	0.6	36

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91	Partial purification of saccharifying and cell wall-hydrolyzing enzymes from malt in waste from beer fermentation broth. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 737-747.	3.4	10
92	Enhanced production of bioethanol from waste of beer fermentation broth at high temperature through consecutive batch strategy by simultaneous saccharification and fermentation. <i>Enzyme and Microbial Technology</i> , 2013, 53, 322-330.	3.2	26
93	Overview of bacterial cellulose composites: A multipurpose advanced material. <i>Carbohydrate Polymers</i> , 2013, 98, 1585-1598.	10.2	538
94	Effects of glucuronic acid oligomers on the production, structure and properties of bacterial cellulose. <i>Carbohydrate Polymers</i> , 2013, 92, 360-366.	10.2	60
95	Bacterial cellulose-MMTs nanoreinforced composite films: novel wound dressing material with antibacterial properties. <i>Cellulose</i> , 2013, 20, 589-596.	4.9	149
96	Effect of post-synthetic processing conditions on structural variations and applications of bacterial cellulose. <i>Cellulose</i> , 2013, 20, 253-263.	4.9	61
97	Stimulatory Effects of Zinc Oxide Nanoparticles on Visual Sensitivity and Electroretinography <i><i>b</i>-Waves in the Bullfrog Eye. <i>Journal of Biomedical Nanotechnology</i>, 2013, 9, 1408-1415.</i>	1.1	5
98	Nanoreinforced bacterial celluloseâ€montmorillonite composites for biomedical applications. <i>Carbohydrate Polymers</i> , 2012, 89, 1189-1197.	10.2	178
99	Prospects of reusable endogenous hydrolyzing enzymes in bioethanol production by simultaneous saccharification and fermentation. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1467-1482.	2.7	17
100	Water holding and release properties of bacterial cellulose obtained by in situ and ex situ modification. <i>Carbohydrate Polymers</i> , 2012, 88, 596-603.	10.2	326
101	Bacterial cellulose production from a single sugar $\hat{\pm}$ -linked glucuronic acid-based oligosaccharide. <i>Process Biochemistry</i> , 2011, 46, 1717-1723.	3.7	57
102	Effect of chitosan penetration on physico-chemical and mechanical properties of bacterial cellulose. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1736-1743.	2.7	126
103	Highly improved adsorption selectivity of L-phenylalanine imprinted polymeric submicron/nanoscale beads prepared by modified suspension polymerization. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1936-1944.	2.7	10
104	Potential of the waste from beer fermentation broth for bio-ethanol production without any additional enzyme, microbial cells and carbohydrates. <i>Enzyme and Microbial Technology</i> , 2011, 49, 298-304.	3.2	18
105	NiO powder synthesized through nickel metal complex degradation for water treatment. , 0, 155, 216-224.		23