

Mohamed Rehan

List of Publications by Year in descending order

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38
papers

2,226
citations

186209

28
h-index

315616

38
g-index

38
all docs

38
docs citations

38
times ranked

2139
citing authors

#	ARTICLE	IF	CITATIONS
1	Textile dyeing industry: environmental impacts and remediation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 3803-3818.	2.7	152
2	Effect of Cationic and Anionic Surfactants on the Application of Calcium Carbonate Nanoparticles in Paper Coating. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2734-2744.	4.0	134
3	Multi-functional textile design using in-situ Ag NPs incorporation into natural fabric matrix. <i>Dyes and Pigments</i> , 2015, 118, 9-17.	2.0	124
4	Nanocomposites based on chitosan/silver/clay for durable multi-functional properties of cotton fabrics. <i>Carbohydrate Polymers</i> , 2018, 182, 29-41.	5.1	116
5	Production of antibacterial colored viscose fibers using in situ prepared spherical Ag nanoparticles. <i>Carbohydrate Polymers</i> , 2014, 110, 148-155.	5.1	114
6	Figuration of Zr-based MOF@cotton fabric composite for potential kidney application. <i>Carbohydrate Polymers</i> , 2018, 195, 460-467.	5.1	108
7	pH-Thermosensitive hydrogel based on polyvinyl alcohol/sodium alginate/N-isopropyl acrylamide composite for treating re-infected wounds. <i>International Journal of Biological Macromolecules</i> , 2019, 124, 1016-1024.	3.6	100
8	Smart textile framework: Photochromic and fluorescent cellulosic fabric printed by strontium aluminate pigment. <i>Carbohydrate Polymers</i> , 2018, 195, 143-152.	5.1	96
9	Towards multifunctional cellulosic fabric: UV photo-reduction and in-situ synthesis of silver nanoparticles into cellulose fabrics. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 877-886.	3.6	85
10	Nanosilver leverage on reactive dyeing of cellulose fibers: Color shading, color fastness and biocidal potentials. <i>Carbohydrate Polymers</i> , 2018, 186, 310-320.	5.1	77
11	Large scaled strategy for natural/synthetic fabrics functionalization via immediate assembly of AgNPs. <i>Dyes and Pigments</i> , 2016, 133, 173-183.	2.0	73
12	Repellency of controlled-release treated cotton fabrics based on cypermethrin and prallethrin. <i>Carbohydrate Polymers</i> , 2008, 73, 92-97.	5.1	70
13	Facile Development of Photoluminescent Textile Fabric via Spray Coating of Eu(II)-Doped Strontium Aluminate. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11483-11492.	1.8	62
14	Colored, photocatalytic, antimicrobial and UV-protected viscose fibers decorated with Ag/Ag ₂ CO ₃ and Ag/Ag ₃ PO ₄ nanoparticles. <i>Cellulose</i> , 2019, 26, 5437-5453.	2.4	59
15	Extraction of Valuable Compounds from Orange Peel Waste for Advanced Functionalization of Cellulosic Surfaces. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5911-5928.	3.2	58
16	Development of Ag/AgX (X = Cl, I) nanoparticles toward antimicrobial, UV-protected and self-cleanable viscose fibers. <i>Carbohydrate Polymers</i> , 2018, 197, 227-236.	5.1	58
17	Green and Sustainable Encapsulation of Guava Leaf Extracts (<i>Psidium guajava</i> L.) into Alginate/Starch Microcapsules for Multifunctional Finish over Cotton Gauze. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18612-18623.	3.2	58
18	Development of multifunctional polyacrylonitrile/silver nanocomposite films: Antimicrobial activity, catalytic activity, electrical conductivity, UV protection and SERS-active sensor. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9380-9394.	2.6	55

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19	Designing strategy for coating cotton gauze fabrics and its application in wound healing. Carbohydrate Polymers, 2020, 244, 116479.	5.1	53
20	Plasma activation toward multi-stimuli responsive cotton fabric via in situ development of polyaniline derivatives and silver nanoparticles. Cellulose, 2020, 27, 2913-2926.	2.4	51
21	Design of multi-functional cotton gauze with antimicrobial and drug delivery properties. Materials Science and Engineering C, 2017, 80, 29-37.	3.8	46
22	Novel halochromic cellulose nanowhiskers from rice straw: Visual detection of urea. Carbohydrate Polymers, 2020, 231, 115740.	5.1	45
23	Fabrication of PAN-TCF-hydrazone nanofibers by solution blowing spinning technique: Naked-eye colorimetric sensor. Journal of Environmental Chemical Engineering, 2017, 5, 2515-2523.	3.3	44
24	Multifunctional Hydroxyapatite/Silver Nanoparticles/Cotton Gauze for Antimicrobial and Biomedical Applications. Nanomaterials, 2021, 11, 429.	1.9	44
25	Seed-Mediated Hot-Injection Synthesis of Tiny Ag Nanocrystals on Nanoscale Solid Supports and Reaction Mechanism. ACS Applied Materials & Interfaces, 2016, 8, 10551-10561.	4.0	42
26	Enhancement of photocatalytic self-cleaning activity and antimicrobial properties of poly(ethylene Terephthalate) fibers. Journal of Environmental Chemical Engineering, 2017, 5, 2515-2523.	2.2	36
27	Enhancement of multifunctional properties of leather surface decorated with silver nanoparticles (Ag NPs). Journal of Molecular Structure, 2021, 1234, 130130.	1.8	35
28	Microwave-heating for in-situ Ag NPs preparation into viscose fibers. European Polymer Journal, 2017, 86, 68-84.	2.6	33
29	Influence of silver nanoparticles on the fabrics functions prepared by in-situ technique. Journal of the Textile Institute, 2017, 108, 1828-1839.	1.0	28
30	Facile and environmental benign in situ synthesis of silver nanoparticles for multifunctionalization of wool fibers. Environmental Science and Pollution Research, 2018, 25, 29054-29069.	2.7	28
31	Phytochemicals and volatile compounds of peanut red skin extract: simultaneous coloration and in situ synthesis of silver nanoparticles for multifunctional viscose fibers. Cellulose, 2020, 27, 9893-9912.	2.4	27
32	Grafting of acrylic acid onto flax fibers using Mn(IV)-citric acid redox system. Journal of Applied Polymer Science, 2006, 102, 3028-3036.	1.3	23
33	Selective Colorimetric Detection of Fe (III) Using Metallochromic Tannin-impregnated Silica Strips. ChemistrySelect, 2018, 3, 12065-12071.	0.7	22
34	Repellency of controlled-release treated-cotton fabrics based on permethrin and bioallethrin against mosquitoes. Journal of the Textile Institute, 2009, 100, 695-701.	1.0	20
35	Functionalization of Unbleached Flax Fibers by Direct Integration of Nano-silver through Internal and External Reduction. Fibers and Polymers, 2021, 22, 3014-3024.	1.1	17
36	Single Bath Full Bleaching of Flax Fibers Using an Activated Sodium Chlorite/Hexamethylene Tetramine System. Journal of Natural Fibers, 2005, 2, 49-67.	1.7	16

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37	β-Cyclodextrin assisted simultaneous preparation and dyeing acid dyes onto cotton fabric. Reactive and Functional Polymers, 2020, 151, 104573.	2.0	9
38	Development of silk fibers decorated with the in situ synthesized silver and gold nanoparticles: antimicrobial activity and creatinine adsorption capacity. Journal of Industrial and Engineering Chemistry, 2021, 97, 584-596.	2.9	8