

# Sakil Mahmud

## List of Publications by Year in descending order

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56  
papers

1,882  
citations

218677

26  
h-index

276875

41  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1108  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performing and Fire-Resistant Biobased Epoxy Resin from Renewable Sources. ACS Sustainable Chemistry and Engineering, 2018, 6, 7589-7599.	6.7	154
2	Comprehensive review on plant fiber-reinforced polymeric biocomposites. Journal of Materials Science, 2021, 56, 7231-7264.	3.7	122
3	New insight into the mechanism for the excellent gas properties of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 642-650.	5.4	76
4	A Novel Coloration of Polyester Fabric through Green Silver Nanoparticles (G-AgNPs@PET). Nanomaterials, 2019, 9, 569.	4.1	74
5	Bio-synthesized palladium nanoparticles using alginate for catalytic degradation of azo-dyes. Chinese Journal of Chemical Engineering, 2020, 28, 1334-1343.	3.5	73
6	Graphene oxide modified membrane for highly efficient wastewater treatment by dynamic combination of nanofiltration and catalysis. Journal of Hazardous Materials, 2020, 397, 122774.	12.4	67
7	Multifunctional organic cotton fabric based on silver nanoparticles green synthesized from sodium alginate. Textile Research Journal, 2020, 90, 1224-1236.	2.2	60
8	Polyvinylidene fluoride membrane functionalized with zero valent iron for highly efficient degradation of organic contaminants. Separation and Purification Technology, 2020, 250, 117266.	7.9	60
9	Hierarchically superhydrophilic poly(vinylidene fluoride) membrane with self-cleaning fabricated by surface mineralization for stable separation of oily wastewater. Journal of Membrane Science, 2021, 640, 119864.	8.2	60
10	Surface Functionalization of Rajshahi Silk Using Green Silver Nanoparticles. Fibers, 2017, 5, 35.	4.0	53
11	Biobased Amorphous Polyesters with High $T_g$ : Trade-Off between Rigid and Flexible Cyclic Diols. ACS Sustainable Chemistry and Engineering, 2019, 7, 6401-6411.	6.7	53
12	Coloration of aramid fabric via in-situ biosynthesis of silver nanoparticles with enhanced antibacterial effect. Inorganic Chemistry Communication, 2020, 119, 108115.	3.9	53
13	Wool functionalization through AgNPs: coloration, antibacterial and wastewater treatment. Surface Innovations, 2021, 9, 25-36.	2.3	53
14	Colorful and antibacterial nylon fabric via in-situ biosynthesis of chitosan mediated nanosilver. Journal of Materials Research and Technology, 2020, 9, 16135-16145.	5.8	53
15	Simple Amphoteric Charge Strategy to Reinforce Superhydrophilic Polyvinylidene Fluoride Membrane for Highly Efficient Separation of Various Surfactant-Stabilized Oil-in-Water Emulsions. ACS Applied Materials & Interfaces, 2020, 12, 47018-47028.	8.0	52
16	Hierarchically Active Poly(vinylidene fluoride) Membrane Fabricated by In Situ Generated Zero-Valent Iron for Fouling Reduction. ACS Applied Materials & Interfaces, 2020, 12, 10993-11004.	8.0	49
17	In situ synthesis of green AgNPs on ramie fabric with functional and catalytic properties. Emerging Materials Research, 2019, 8, 623-633.	0.7	45
18	Biological and Environmental Applications of Silver Nanoparticles Synthesized Using the Aqueous Extract of Ginkgo biloba Leaf. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 1653-1668.	3.7	42

#	ARTICLE	IF	CITATIONS
19	Potocatalytic antifouling membrane with dense nano-TiO <sub>2</sub> coating for efficient oil-in-water emulsion separation and self-cleaning. <i>Journal of Membrane Science</i> , 2022, 645, 120204.	8.2	41
20	Konjac glucomannan reduced-stabilized silver nanoparticles for mono-azo and di-azo contained wastewater treatment. <i>Inorganica Chimica Acta</i> , 2021, 515, 120058.	2.4	40
21	Eco-friendly dyeing and finishing of organic cotton fabric using natural dye (gardenia yellow) reduced-stabilized nanosilver: full factorial design. <i>Cellulose</i> , 2022, 29, 2663-2679.	4.9	40
22	Gold Nanoparticles Biosynthesized Using Ginkgo biloba Leaf Aqueous Extract for the Decolorization of Azo-Dyes and Fluorescent Detection of Cr(VI). <i>Journal of Cluster Science</i> , 2020, 31, 549-560.	3.3	35
23	Sodium alginate fasten cellulose nanocrystal Ag@AgCl ternary nanocomposites for the synthesis of antibacterial hydrogels. <i>Composites Communications</i> , 2021, 25, 100717.	6.3	35
24	Hierarchical poly(vinylidene fluoride)/active carbon composite membrane with self-confining functional carbon nanotube layer for intractable wastewater remediation. <i>Journal of Membrane Science</i> , 2020, 603, 118041.	8.2	32
25	Green synthesis of Konjac glucomannan templated palladium nanoparticles for catalytic reduction of azo compounds and hexavalent chromium. <i>Materials Chemistry and Physics</i> , 2021, 267, 124651.	4.0	31
26	Toughening polylactide by direct blending of cellulose nanocrystals and epoxidized soybean oil. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48221.	2.6	30
27	Ingenious synthesis of chitosan-based porous carbon supercapacitors with large specific area by a small amount of potassium hydroxide. <i>Journal of Energy Storage</i> , 2022, 51, 104341.	8.1	27
28	One-step carbonization strategy of freeze-dried chitosan to prepare Nitrogen-Oxygen co-doped porous carbon supercapacitors with ultra-large specific surface area. <i>Fuel</i> , 2022, 320, 124002.	6.4	27
29	Kappa carrageenan reduced-stabilized colloidal silver nanoparticles for the degradation of toxic azo compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126325.	4.7	24
30	Bioreduction (Ag <sup>+</sup> to Ag <sup>0</sup> ) and stabilization of silver nanocatalyst using hyaluronate biopolymer for azo-contaminated wastewater treatment. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162502.	5.5	24
31	Wool Functionalization by Using Green Synthesized Silver Nanoparticles. <i>Oriental Journal of Chemistry</i> , 2017, 33, 2198-2208.	0.3	21
32	Gold/Konjac glucomannan bionanocomposites for catalytic degradation of mono-azo and di-azo dyes. <i>Inorganic Chemistry Communication</i> , 2020, 120, 108156.	3.9	20
33	Bioreduction (Au <sup>III</sup> to Au <sup>0</sup> ) and stabilization of gold nanocatalyst using Kappa carrageenan for degradation of azo dyes. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 282-290.	7.5	20
34	One-pot green synthesis of Ag@AgCl nanoparticles with excellent photocatalytic performance. <i>Surface Innovations</i> , 2021, 9, 277-284.	2.3	20
35	Electrospun PVDF-Ag@AgCl porous fiber membrane: stable antifoul and antibacterial surface. <i>Surface Innovations</i> , 2021, 9, 156-165.	2.3	18
36	Antimicrobial performance of silver-copper-zeolite microparticle-treated organic cotton fabric using versatile methods. <i>Surface Innovations</i> , 2023, 11, 223-230.	2.3	18

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37	UV Protection and Antibacterial Treatment of Wool using Green Silver Nanoparticles. Asian Journal of Chemistry, 2018, 30, 116-122.	0.3	17
38	Hyaluronate macromolecules reduced-stabilized colloidal palladium nanocatalyst for azo contaminated wastewater treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127345.	4.7	17
39	Enhancing mechanical and antibacterial performances of organic cotton materials with greenly synthesized colored silver nanoparticles. International Journal of Clothing Science and Technology, 2022, 34, 549-565.	1.1	16
40	Nucleation and crystallization of poly(propylene 2,5-furan dicarboxylate) by direct blending of microcrystalline cellulose: improved tensile and barrier properties. Cellulose, 2020, 27, 9423-9436.	4.9	13
41	Alginate/gelatin mineralized hydrogel modified by multilayers electrospun membrane of cellulose: Preparation, properties and in-vitro degradation. Polymer Degradation and Stability, 2021, 192, 109685.	5.8	12

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#	ARTICLE	IF	CITATIONS
55	Construction of anti-counterfeiting pattern on the cellulose film by in-situ regulation strategies. Cellulose, 2022, 29, 7751-7760.	4.9	3
56	Chitosan-Mediated Salt Stress Mitigation in Rice by Enhancing Antioxidant Defense System. Fundamental and Applied Agriculture, 2021, , 1.	0.1	0