

Sumit Mishra

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.

52
papers

1,892
citations

23
h-index

43
g-index

52
ext. papers

2,236
ext. citations

6.7
avg, IF

5.4
L-index

#	Paper	IF	Citations
52	Synthesis, characterization and flocculation efficiency of grafted Moringa gum based derivatives.. <i>Carbohydrate Polymers</i> , 2022 , 281, 119079	10.3	1
51	Chemistry, Biological Activities, and Uses of Moi Gum. <i>Reference Series in Phytochemistry</i> , 2022 , 1-32	0.7	
50	Guar Gum Grafted Itaconic Acid: A Solution for Different Waste Water Treatment. <i>Journal of Polymers and the Environment</i> , 2021 , 29, 3525-3538	4.5	4
49	Design of pH sensitive low-cost adsorbent from the exudate of <i>Lannea coromandelica</i> (Houtt) for remediation of Malachite Green dye from aqueous solution. <i>Polymer Bulletin</i> , 2021 , 78, 3459-3487	2.4	6
48	Guar gum based hydrogel as controlled micronutrient delivery system: Mechanism and kinetics of boron release for agricultural applications. <i>Biopolymers</i> , 2021 , 112, e23418	2.2	7
47	Synthesis of borax cross-linked Jhingan gum hydrogel for remediation of Remazol Brilliant Blue R (RBBR) dye from water: Adsorption isotherm, kinetic, thermodynamic and biodegradation studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 677-690	7.9	52
46	In vitro release kinetics of graft matrices from <i>Lannea coromandelica</i> (Houtt) gum for treatment of colonic diseases by 5-ASA. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 908-920	7.9	8
45	Design of low-cost Jhingan gum-based flocculant for remediation of wastewater: flocculation and biodegradation studies. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 2545-2562	3.3	5
44	Exploring the Potential of Moi Gum for Diverse Applications: A Review. <i>Journal of Polymers and the Environment</i> , 2020 , 28, 1579-1591	4.5	4
43	Alginate Acid Derivatives: Synthesis, Characterization and Application in Wastewater Treatment. <i>Journal of Polymers and the Environment</i> , 2019 , 27, 2769-2783	4.5	4
42	Gum ghatti based hydrogel: Microwave synthesis, characterization, 5-Fluorouracil encapsulation and in vitro drug release evaluation. <i>Carbohydrate Polymers</i> , 2019 , 222, 114979	10.3	18
41	Controlled drug release behavior of 5-aminosalicylic acid using polyacrylamide grafted oatmeal (OAT-g-PAM): a pH-sensitive drug carrier. <i>Polymer Bulletin</i> , 2019 , 76, 813-824	2.4	3
40	Design, development and validation of guar gum based pH sensitive drug delivery carrier via graft copolymerization reaction using microwave irradiations. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 278-291	7.9	23
39	Synthesis, characterization and applications of polyacrylamide grafted fenugreek gum (FG-g-PAM) as flocculant: Microwave vs thermal synthesis approach. <i>International Journal of Biological Macromolecules</i> , 2019 , 141, 792-808	7.9	9
38	Applications of Biopolymeric Gels in Agricultural Sector. <i>Gels Horizons: From Science To Smart Materials</i> , 2018 , 185-228		3
37	Design and development of guar gum based novel, superabsorbent and moisture retaining hydrogels for agricultural applications. <i>Carbohydrate Polymers</i> , 2018 , 185, 169-178	10.3	110
36	Novel hybrid biosorbents of agar: Swelling behaviour, heavy metal ions and dye removal efficacies. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 902-910	7.9	22

35	Synthesis and Characterization of Novel OAT-g-PMMA Matrices: Its Application in Controlled and Colonic Drug Delivery. <i>Advances in Polymer Technology</i> , 2017 , 36, 466-476	1.9	1
34	Colon targeted drug release studies of 5-ASA using a novel pH sensitive polyacrylic acid grafted barley. <i>Polymer Bulletin</i> , 2017 , 74, 3431-3453	2.4	5
33	Synthesis and characterization of polymethylmethacrylate grafted barley for treatment of industrial and municipal wastewater. <i>Journal of Water Process Engineering</i> , 2017 , 18, 113-125	6.7	13
32	Borax cross-linked guar gum hydrogels as potential adsorbents for water purification. <i>Carbohydrate Polymers</i> , 2017 , 168, 274-281	10.3	67
31	Ceric ion-induced synthesis of polymethyl methacrylate-grafted oatmeal: its characterizations and applications. <i>Desalination and Water Treatment</i> , 2016 , 57, 12777-12792		2
30	Comparative Studies on the High Performance Flocculating Agent of Novel Polyacrylamide grafted Oatmeal. <i>Advances in Polymer Technology</i> , 2016 , 35, 162-179	1.9	7
29	Guar gum as a promising starting material for diverse applications: A review. <i>International Journal of Biological Macromolecules</i> , 2016 , 88, 361-72	7.9	229
28	Fluoride sorption by zirconium (IV) loaded carboxylated orange peel. <i>Desalination and Water Treatment</i> , 2015 , 53, 2144-2157		12
27	Microwave-Irradiated Synthesis of Agar-Based Graft Copolymers 2015 , 45-83		
26	Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. <i>Bioresource Technology</i> , 2014 , 151, 6-11	11	50
25	Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA. <i>International Journal of Biological Macromolecules</i> , 2014 , 65, 375-82	7.9	33
24	Carboxymethyl inulin: a novel flocculant for wastewater treatment. <i>International Journal of Biological Macromolecules</i> , 2014 , 63, 1-7	7.9	35
23	A novel polymeric flocculant based on polyacrylamide grafted inulin: aqueous microwave assisted synthesis. <i>Carbohydrate Polymers</i> , 2014 , 99, 11-21	10.3	41
22	Synthesis, characterization and application of novel polyacrylamide-grafted barley. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	15
21	Controlled drug release of 5-amino salicylic acid by poly(2-hydroxyethylmethacrylate) grafted agar. <i>Frontiers of Chemical Science and Engineering</i> , 2014 , 8, 465-470	4.5	19
20	Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive. <i>Industrial Crops and Products</i> , 2014 , 58, 251-258	5.9	10
19	Synthesis, characterization and applications of polymethylmethacrylate grafted psyllium as flocculant. <i>Carbohydrate Polymers</i> , 2014 , 99, 462-8	10.3	48
18	Microwave initiated synthesis of polyacrylamide grafted casein (CAS-g-PAM)--its application as a flocculant. <i>International Journal of Biological Macromolecules</i> , 2013 , 60, 141-7	7.9	33

17	Synthesis and applications of poly(2-hydroxyethylmethacrylate) grafted agar: a microwave based approach. <i>International Journal of Biological Macromolecules</i> , 2013 , 61, 276-84	7.9	16
16	Microwave assisted synthesis of poly(2-hydroxyethylmethacrylate) grafted agar (Ag-g-P(HEMA)) and its application as a flocculant for wastewater treatment. <i>Frontiers of Chemical Science and Engineering</i> , 2013 , 7, 312-321	4.5	18
15	Study of algal biomass harvesting using cationic guar gum from the natural plant source as flocculant. <i>Carbohydrate Polymers</i> , 2013 , 92, 675-81	10.3	114
14	Ceric ion initiated synthesis of polyacrylamide grafted oatmeal: Its application as flocculant for wastewater treatment. <i>Carbohydrate Polymers</i> , 2013 , 93, 528-36	10.3	44
13	Microwave based synthesis of polymethyl methacrylate grafted sodium alginate: its application as flocculant. <i>Carbohydrate Polymers</i> , 2013 , 91, 686-92	10.3	88
12	Study of polyacrylamide grafted starch based algal flocculation towards applications in algal biomass harvesting. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 456-61	7.9	51
11	Microwave initiated synthesis of polyacrylamide grafted Psyllium and its application as a flocculant. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 369-75	7.9	49
10	Polyacrylamide grafted Agar: synthesis and applications of conventional and microwave assisted technique. <i>Carbohydrate Polymers</i> , 2012 , 90, 784-91	10.3	54
9	Microwave initiated synthesis and application of polyacrylic acid grafted carboxymethyl cellulose. <i>Carbohydrate Polymers</i> , 2012 , 87, 2255-2262	10.3	95
8	Microwave assisted synthesis of polyacrylamide grafted gum ghatti and its application as flocculant. <i>Carbohydrate Polymers</i> , 2012 , 89, 275-81	10.3	110
7	Microwave assisted synthesis of polyacrylamide grafted starch (St-g-PAM) and its applicability as flocculant for water treatment. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 106-11	7.9	129
6	Microwave initiated synthesis of polymethylmethacrylate grafted guar (GG-g-PMMA), characterizations and applications. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 688-94	7.9	62
5	Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 591-8	7.9	56
4	Microwave initiated synthesis of polyacrylamide grafted guar gum (GG-g-PAM)-Characterizations and application as matrix for controlled release of 5-amino salicylic acid. <i>International Journal of Biological Macromolecules</i> , 2010 , 47, 164-70	7.9	106
3	Development of oatmeal-based novel superabsorbent and moisture-retaining hydrogels: metal ion and dye removal applications. <i>Polymer Bulletin</i> , 1	2.4	
2	The removal of textile industrial Dye-RB-19 using Guar gum-based adsorbent with thermodynamic and kinetic evaluation parameters. <i>Polymer Bulletin</i> , 1	2.4	0
1	Eco-Friendly Grafted Polysaccharides for Pharmaceutical Formulation: Structure and Chemistry	457-475	1