Sumit Mishra

List of Publications by Citations

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	Guar gum as a promising starting material for diverse applications: A review. *International Journal of Biological Macromolecules*, **2016**, 88, 361-72	7.9	229
51	Microwave assisted synthesis of polyacrylamide grafted starch (St-g-PAM) and its applicability as flocculant for water treatment. *International Journal of Biological Macromolecules*, **2011**, 48, 106-11	7.9	129
50	Study of algal biomass harvesting using cationic guar gum from the natural plant source as flocculant. *Carbohydrate Polymers*, **2013**, 92, 675-81	10.3	114
49	Design and development of guar gum based novel, superabsorbent and moisture retaining hydrogels for agricultural applications. *Carbohydrate Polymers*, **2018**, 185, 169-178	10.3	110
48	Microwave assisted synthesis of polyacrylamide grafted gum ghatti and its application as flocculant. *Carbohydrate Polymers*, **2012**, 89, 275-81	10.3	110
47	Microwave initiated synthesis of polyacrylamide grafted guar gum (GG-g-PAM)-Characterizations and application as matrix for controlled release of 5-amino salicylic acid. *International Journal of Biological Macromolecules*, **2010**, 47, 164-70	7.9	106
46	Microwave initiated synthesis and application of polyacrylic acid grafted carboxymethyl cellulose. *Carbohydrate Polymers*, **2012**, 87, 2255-2262	10.3	95
45	Microwave based synthesis of polymethyl methacrylate grafted sodium alginate: its application as flocculant. *Carbohydrate Polymers*, **2013**, 91, 686-92	10.3	88
44	Borax cross-linked guar gum hydrogels as potential adsorbents for water purification. *Carbohydrate Polymers*, **2017**, 168, 274-281	10.3	67
43	Microwave initiated synthesis of polymethylmethacrylate grafted guar (GG-g-PMMA), characterizations and applications. *International Journal of Biological Macromolecules*, **2011**, 48, 688-94	7.9	62
42	Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment. *International Journal of Biological Macromolecules*, **2011**, 49, 591-8	7.9	56
41	Polyacrylamide grafted Agar: synthesis and applications of conventional and microwave assisted technique. *Carbohydrate Polymers*, **2012**, 90, 784-91	10.3	54
40	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. *International Journal of Biological Macromolecules*, **2020**, 151, 677-690	7.9	52
39	Study of polyacrylamide grafted starch based algal flocculation towards applications in algal biomass harvesting. *International Journal of Biological Macromolecules*, **2012**, 51, 456-61	7.9	51
38	Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. *Bioresource Technology*, **2014**, 151, 6-11	11	50
37	Microwave initiated synthesis of polyacrylamide grafted Psyllium and its application as a flocculant. *International Journal of Biological Macromolecules*, **2012**, 50, 369-75	7.9	49
36	Synthesis, characterization and applications of polymethylmethacrylate grafted psyllium as flocculant. *Carbohydrate Polymers*, **2014**, 99, 462-8	10.3	48

35	Ceric ion initiated synthesis of polyacrylamide grafted oatmeal: Its application as flocculant for wastewater treatment. *Carbohydrate Polymers*, **2013**, 93, 528-36	10.3	44
34	A novel polymeric flocculant based on polyacrylamide grafted inulin: aqueous microwave assisted synthesis. *Carbohydrate Polymers*, **2014**, 99, 11-21	10.3	41
33	Carboxymethyl inulin: a novel flocculant for wastewater treatment. *International Journal of Biological Macromolecules*, **2014**, 63, 1-7	7.9	35
32	Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA. *International Journal of Biological Macromolecules*, **2014**, 65, 375-82	7.9	33
31	Microwave initiated synthesis of polyacrylamide grafted casein (CAS-g-PAM)--its application as a flocculant. *International Journal of Biological Macromolecules*, **2013**, 60, 141-7	7.9	33
30	Design, development and validation of guar gum based pH sensitive drug delivery carrier via graft copolymerization reaction using microwave irradiations. *International Journal of Biological Macromolecules*, **2019**, 138, 278-291	7.9	23
29	Novel hybrid biosorbents of agar: Swelling behaviour, heavy metal ions and dye removal efficacies. *International Journal of Biological Macromolecules*, **2018**, 117, 902-910	7.9	22
28	Controlled drug release of 5-amino salicylic acid by poly(2-hydroxyethylmethacrylate) grafted agar. *Frontiers of Chemical Science and Engineering*, **2014**, 8, 465-470	4.5	19
27	Gum ghatti based hydrogel: Microwave synthesis, characterization, 5-Fluorouracil encapsulation and Vin vitroVdrug release evaluation. *Carbohydrate Polymers*, **2019**, 222, 114979	10.3	18
26	Microwave assisted synthesis of poly(2-hydroxyethylmethacrylate) grafted agar (Ag-g-P(HEMA)) and its application as a flocculant for wastewater treatment. *Frontiers of Chemical Science and Engineering*, **2013**, 7, 312-321	4.5	18
25	Synthesis and applications of poly(2-hydroxyethylmethacrylate) grafted agar: a microwave based approach. *International Journal of Biological Macromolecules*, **2013**, 61, 276-84	7.9	16
24	Synthesis, characterization and application of novel polyacrylamide-grafted barley. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	15
23	Synthesis and characterization of polymethylmethacrylate grafted barley for treatment of industrial and municipal wastewater. *Journal of Water Process Engineering*, **2017**, 18, 113-125	6.7	13
22	Fluoride sorption by zirconium (IV) loaded carboxylated orange peel. *Desalination and Water Treatment*, **2015**, 53, 2144-2157		12
21	Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive. *Industrial Crops and Products*, **2014**, 58, 251-258	5.9	10
20	Synthesis, characterization and applications of polyacrylamide grafted fenugreek gum (FG-g-PAM) as flocculant: Microwave vs thermal synthesis approach. *International Journal of Biological Macromolecules*, **2019**, 141, 792-808	7.9	9
19	In vitro release kinetics of graft matrices from Lannea coromandelica (Houtt) gum for treatment of colonic diseases by 5-ASA. *International Journal of Biological Macromolecules*, **2020**, 149, 908-920	7.9	8
18	Comparative Studies on the High Performance Flocculating Agent of Novel Polyacrylamide grafted Oatmeal. *Advances in Polymer Technology*, **2016**, 35, 162-179	1.9	7

17	Guar gum based hydrogel as controlled micronutrient delivery system: Mechanism and kinetics of boron release for agricultural applications. *Biopolymers*, **2021**, 112, e23418	2.2	7
16	Design of pH sensitive low-cost adsorbent from the exudate of Lannea coromandelica (Houtt) for remediation of Malachite Green dye from aqueous solution. *Polymer Bulletin*, **2021**, 78, 3459-3487	2.4	6
15	Colon targeted drug release studies of 5-ASA using a novel pH sensitive polyacrylic acid grafted barley. *Polymer Bulletin*, **2017**, 74, 3431-3453	2.4	5
14	Design of low-cost Jhingan gum-based flocculant for remediation of wastewater: flocculation and biodegradation studies. *International Journal of Environmental Science and Technology*, **2020**, 17, 2545-2562	3.3	5
13	Alginic Acid Derivatives: Synthesis, Characterization and Application in Wastewater Treatment. *Journal of Polymers and the Environment*, **2019**, 27, 2769-2783	4.5	4
12	Guar Gum Grafted Itaconic Acid: A Solution for Different Waste Water Treatment. *Journal of Polymers and the Environment*, **2021**, 29, 3525-3538	4.5	4
11	Exploring the Potential of Moi Gum for Diverse Applications: A Review. *Journal of Polymers and the Environment*, **2020**, 28, 1579-1591	4.5	4
10	Applications of Biopolymeric Gels in Agricultural Sector. *Gels Horizons: From Science To Smart Materials*, **2018**, 185-228		3
9	Controlled drug release behavior of 5-aminosalicylic acid using polyacrylamide grafted oatmeal (OAT-g-PAM): a pH-sensitive drug carrier. *Polymer Bulletin*, **2019**, 76, 813-824	2.4	3
8	Ceric ion-induced synthesis of polymethyl methacrylate-grafted oatmeal: its characterizations and applications. *Desalination and Water Treatment*, **2016**, 57, 12777-12792		2
7	Synthesis and Characterization of Novel OAT-g-PMMA Matrices: Its Application in Controlled and Colonic Drug Delivery. *Advances in Polymer Technology*, **2017**, 36, 466-476	1.9	1
6	Synthesis, characterization and flocculation efficiency of grafted Moringa gum based derivatives.. *Carbohydrate Polymers*, **2022**, 281, 119079	10.3	1
5	Eco-Friendly Grafted Polysaccharides for Pharmaceutical Formulation: Structure and Chemistry457-475		1
4	The removal of textile industrial Dye-RB-19 using Guar gum-based adsorbent with thermodynamic and kinetic evaluation parameters. *Polymer Bulletin*,1	2.4	0
3	Microwave-Irradiated Synthesis of Agar-Based Graft Copolymers **2015**, 45-83		
2	Development of oatmeal-based novel superabsorbent and moisture-retaining hydrogels: metal ion and dye removal applications. *Polymer Bulletin*,1	2.4	
1	Chemistry, Biological Activities, and Uses of Moi Gum. *Reference Series in Phytochemistry*, **2022**, 1-32	0.7	