

# Sumit Mishra

## List of Publications by Year in descending order

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49  
papers

2,638  
citations

218592

26  
h-index

206029

48  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guar gum as a promising starting material for diverse applications: A review. <i>International Journal of Biological Macromolecules</i> , 2016, 88, 361-372.	3.6	369
2	Design and development of guar gum based novel, superabsorbent and moisture retaining hydrogels for agricultural applications. <i>Carbohydrate Polymers</i> , 2018, 185, 169-178.	5.1	207
3	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, 106-111.	3.6	150
4	Study of algal biomass harvesting using cationic guar gum from the natural plant source as flocculant. <i>Carbohydrate Polymers</i> , 2013, 92, 675-681.	5.1	131
5	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, 164-170.	3.6	126
6	Microwave assisted synthesis of polyacrylamide grafted gum ghatti and its application as flocculant. <i>Carbohydrate Polymers</i> , 2012, 89, 275-281.	5.1	126
7	Borax cross-linked guar gum hydrogels as potential adsorbents for water purification. <i>Carbohydrate Polymers</i> , 2017, 168, 274-281.	5.1	114
8	Microwave initiated synthesis and application of polyacrylic acid grafted carboxymethyl cellulose. <i>Carbohydrate Polymers</i> , 2012, 87, 2255-2262.	5.1	112
9	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.	3.6	108
10	Microwave based synthesis of polymethyl methacrylate grafted sodium alginate: its application as flocculant. <i>Carbohydrate Polymers</i> , 2013, 91, 686-692.	5.1	99
11	Microwave initiated synthesis of polymethylmethacrylate grafted guar (GG-g-PMMA), characterizations and applications. <i>International Journal of Biological Macromolecules</i> , 2011, 48, 688-694.	3.6	80
12	Polyacrylamide grafted Agar: Synthesis and applications of conventional and microwave assisted technique. <i>Carbohydrate Polymers</i> , 2012, 90, 784-791.	5.1	65
13	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, 591-598.	3.6	64
14	Synthesis, characterization and applications of polymethylmethacrylate grafted psyllium as flocculant. <i>Carbohydrate Polymers</i> , 2014, 99, 462-468.	5.1	62
15	Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. <i>Bioresource Technology</i> , 2014, 151, 6-11.	4.8	62
16	Study of polyacrylamide grafted starch based algal flocculation towards applications in algal biomass harvesting. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 456-461.	3.6	59
17	Microwave initiated synthesis of polyacrylamide grafted Psyllium and its application as a flocculant. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 369-375.	3.6	56
18	A novel polymeric flocculant based on polyacrylamide grafted inulin: Aqueous microwave assisted synthesis. <i>Carbohydrate Polymers</i> , 2014, 99, 11-21.	5.1	52

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19	Ceric ion initiated synthesis of polyacrylamide grafted oatmeal: Its application as flocculant for wastewater treatment. <i>Carbohydrate Polymers</i> , 2013, 93, 528-536.	5.1	48
20	Carboxymethyl inulin: A novel flocculant for wastewater treatment. <i>International Journal of Biological Macromolecules</i> , 2014, 63, 1-7.	3.6	46
21	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, 375-382.	3.6	43
22	Gum ghatti based hydrogel: Microwave synthesis, characterization, 5-Fluorouracil encapsulation and <i>in vitro</i> drug release evaluation. <i>Carbohydrate Polymers</i> , 2019, 222, 114979.	5.1	41
23	Microwave initiated synthesis of polyacrylamide grafted Casein (CAS-g-PAM) <i>Its application as a flocculant</i> . <i>International Journal of Biological Macromolecules</i> , 2013, 60, 141-147.	3.6	39
24	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.	3.6	37
25	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.	3.6	36
26	Guar gum based hydrogel as controlled micronutrient delivery system: Mechanism and kinetics of boron release for agricultural applications. <i>Biopolymers</i> , 2021, 112, e23418.	1.2	29
27	Synthesis and applications of poly(2-hydroxyethylmethacrylate) grafted agar: A microwave based approach. <i>International Journal of Biological Macromolecules</i> , 2013, 61, 276-284.	3.6	26
28	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.	2.3	25
29	Guar Gum Grafted Itaconic Acid: A Solution for Different Waste Water Treatment. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3525-3538.	2.4	23
30	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.	2.3	22
31	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.	3.6	20
32	Fluoride sorption by zirconium (IV) loaded carboxylated orange peel. <i>Desalination and Water Treatment</i> , 2015, 53, 2144-2157.	1.0	18
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.	2.6	18
34	Synthesis, characterization and application of novel polyacrylamide grafted barley. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	17
35	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.	2.5	13
36	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.	1.7	13

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37	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.	1.7	11
38	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.	3.6	10
39	Exploring the Potential of Moi Gum for Diverse Applications: A Review. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1579-1591.	2.4	10
40	The removal of textile industrial Dye-RB-19 using Guar gum-based adsorbent with thermodynamic and kinetic evaluation parameters. <i>Polymer Bulletin</i> , 2022, 79, 3353-3378.	1.7	9
41	Alginate Acid Derivatives: Synthesis, Characterization and Application in Wastewater Treatment. <i>Journal of Polymers and the Environment</i> , 2019, 27, 2769-2783.	2.4	8
42	Comparative Studies on the High Performance Flocculating Agent of Novel Polyacrylamide grafted Oatmeal. <i>Advances in Polymer Technology</i> , 2016, 35, 162-179.	0.8	7
43	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.	1.8	7
44	Synthesis, characterization and flocculation efficiency of grafted Moringa gum based derivatives. <i>Carbohydrate Polymers</i> , 2022, 281, 119079.	5.1	7
45	Applications of Biopolymeric Gels in Agricultural Sector. <i>Gels Horizons: From Science To Smart Materials</i> , 2018, , 185-228.	0.3	4
46	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.	1.7	3
47	Ceric ion-induced synthesis of polymethyl methacrylate-grafted oatmeal: its characterizations and applications. <i>Desalination and Water Treatment</i> , 2016, 57, 12777-12792.	1.0	2
48	Synthesis and Characterization of Novel OAT-g-PAM Matrices: Its Application in Controlled and Colonic Drug Delivery. <i>Advances in Polymer Technology</i> , 2017, 36, 466-476.	0.8	1
49	Development of oatmeal-based novel superabsorbent and moisture-retaining hydrogels: metal ion and dye removal applications. <i>Polymer Bulletin</i> , 0, , 1.	1.7	0