

Gautam Sen

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54
papers

2,254
citations

30
h-index

47
g-index

59
ext. papers

2,476
ext. citations

6.8
avg, IF

5.22
L-index

#	Paper	IF	Citations
54	A novel polymeric flocculant based on polyacrylamide grafted carboxymethylstarch. <i>Carbohydrate Polymers</i> , 2009 , 77, 822-831	10.3	146
53	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
52	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
51	Microwave assisted synthesis of polyacrylamide grafted gum ghatti and its application as flocculant. <i>Carbohydrate Polymers</i> , 2012 , 89, 275-81	10.3	110
50	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
49	Microwave initiated synthesis and application of polyacrylic acid grafted carboxymethyl cellulose. <i>Carbohydrate Polymers</i> , 2012 , 87, 2255-2262	10.3	95
48	Novel biodegradable polymeric flocculant based on polyacrylamide-grafted tamarind kernel polysaccharide. <i>Bioresource Technology</i> , 2010 , 101, 9638-44	11	93
47	Microwave based synthesis of polymethyl methacrylate grafted sodium alginate: its application as flocculant. <i>Carbohydrate Polymers</i> , 2013 , 91, 686-92	10.3	88
46	Microwave initiated synthesis of polyacrylamide grafted carboxymethylstarch (CMS-g-PAM): application as a novel matrix for sustained drug release. <i>International Journal of Biological Macromolecules</i> , 2009 , 45, 48-55	7.9	82
45	Microwave-initiated synthesis of polyacrylamide grafted sodium alginate: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 63-71	2.9	82
44	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
43	Carboxymethyl tamarind: Synthesis, characterization and its application as novel drug-delivery agent. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 392-400	2.9	62
42	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
41	Polyacrylamide grafted Agar: synthesis and applications of conventional and microwave assisted technique. <i>Carbohydrate Polymers</i> , 2012 , 90, 784-91	10.3	54
40	Polyacrylamide Grafted Carboxymethyl Tamarind (CMT-g-PAM): Development and Application of a Novel Polymeric Flocculant. <i>Macromolecular Symposia</i> , 2009 , 277, 100-111	0.8	52
39	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
38	Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. <i>Bioresource Technology</i> , 2014 , 151, 6-11	11	50

37	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
36	Synthesis, characterization and applications of polymethylmethacrylate grafted psyllium as flocculant. <i>Carbohydrate Polymers</i> , 2014 , 99, 462-8	10.3	48
35	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
34	A novel polymeric flocculant based on polyacrylamide grafted inulin: aqueous microwave assisted synthesis. <i>Carbohydrate Polymers</i> , 2014 , 99, 11-21	10.3	41
33	High performance flocculating agents based on cationic polysaccharides in relation to coal fine suspension. <i>Carbohydrate Polymers</i> , 2008 , 74, 590-596	10.3	38
32	Cationic inulin: a plant based natural biopolymer for algal biomass harvesting. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 868-74	7.9	37
31	Sesbania gum based hydrogel as platform for sustained drug delivery: An <i>in vitro</i> study of 5-Fu release. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 1116-1124	7.9	36
30	Carboxymethyl inulin: a novel flocculant for wastewater treatment. <i>International Journal of Biological Macromolecules</i> , 2014 , 63, 1-7	7.9	35
29	Cationic tamarind kernel polysaccharide (Cat TKP): A novel polymeric flocculant for the treatment of textile industry wastewater. <i>International Journal of Biological Macromolecules</i> , 2009 , 45, 518-23	7.9	35
28	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
27	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
26	Conferring Antibacterial Properties on Sesbania Gum via Microwave-Assisted Graft Copolymerization of DADMAC. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 3272-3282	4.5	26
25	A novel polymeric biomaterial based on carboxymethylstarch and its application in controlled drug release. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 2798-2805	2.9	24
24	Synthesis, characterization and flocculation studies of a novel graft copolymer towards destabilization of carbon nano-tubes from effluent. <i>Polymer</i> , 2017 , 112, 159-168	3.9	23
23	Synthesis of polyacrylamide grafted polyvinyl pyrrolidone (PVP-g-PAM) and study of its application in algal biomass harvesting. <i>Ecological Engineering</i> , 2017 , 100, 19-27	3.9	21
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	10.3	18
21	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
20	Polymethacrylic acid grafted psyllium (Psy-g-PMA): a novel material for waste water treatment. <i>Applied Water Science</i> , 2013 , 3, 285-291	5	16

19	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
18	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
17	Grafted sesbania gum: A novel derivative for sugarcane juice clarification. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 349-356	7.9	14
16	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
15	In vitro evaluations of free radical assisted microwave irradiated polyacrylamide grafted cashew gum (CG) biocompatible graft copolymer (CG-g-PAM) as effective polymeric scaffold. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 56, 101572	4.5	12
14	Synthesis and study of hydrolyzed polyacrylamide grafted polyvinyl pyrrolidone (Hyd.PVP-g-PAM) as flocculant for removal of nanoparticles from aqueous system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018 , 236-237, 32-42	3.1	11
13	Modified PVP based hydrogel: Synthesis, characterization and application in selective abstraction of metal ions from water. <i>Materials Chemistry and Physics</i> , 2017 , 194, 261-273	4.4	10
12	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
11	Novel Biocide Based on Cationic Derivative of Psyllium: Surface Modification and Antibacterial Activity. <i>Journal of Polymers and the Environment</i> , 2019 , 27, 1178-1190	4.5	8
10	Preparation, Properties and Application of Hydrogels: A Review. <i>Gels Horizons: From Science To Smart Materials</i> , 2018 , 145-173		6
9	Synthesis and optimization of hydrolyzed gum ghatti as nano-hunters [Flocculant for destabilization of nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 555, 699-707	5.1	5
8	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
7	Graft copolymer of PVP as sutureless, haemostatic bioadhesive for wound healing application. <i>Polymer Bulletin</i> , 2020 , 77, 5191-5212	2.4	4
6	Synthesis of Diallyl dimethyl ammonium chloride grafted polyvinyl pyrrolidone (PVP-g-DADMAC) and its applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 263, 114750	3.1	4
5	Grafted Polysaccharides: Smart Materials of the Future, Their Synthesis and Applications 2011 , 99-127		3
4	A Novel Biodegradable Cinnamic Acid Grafted Carboxymethyl Cellulose Based Flocculant for Water Treatment. <i>Materials Science Forum</i> , 2016 , 875, 156-166	0.4	3
3	Synthesis and Application as Programmable Water Soluble Adhesive of Polyacrylamide Grafted Gum Tragacanth (GT-g-PAM) 2018 , 153-203		0
2	Microwave-assisted cationization of Gum ghatti by grafting with diallyldimethylammonium chloride (DADMAC) and its applications as nano scavenger. <i>Industrial Crops and Products</i> , 2022 , 179, 114637	5.9	0

- 1 Microwave-Irradiated Synthesis of Agar-Based Graft Copolymers **2015**, 45-83