Gautam Sen

List of Publications by Year
in descending order

53 papers	2,753 citations	136740 32 h-index	174990 52 g-index
59 all docs	59 docs citations	59 times ranked	1916 citing authors

#	Article	IF	Citations
1	A novel polymeric flocculant based on polyacrylamide grafted carboxymethylstarch. Carbohydrate Polymers, 2009, 77, 822-831.	5.1	170
2	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, 106-111.	3.6	150
3	Study of algal biomass harvesting using cationic guar gum from the natural plant source as flocculant. Carbohydrate Polymers, 2013, 92, 675-681.	5.1	131
4	Microwave initiated synthesis of polyacrylamide grafted guar gum (GG-g-PAM)â€"Characterizations and application as matrix for controlled release of 5-amino salicylic acid. International Journal of Biological Macromolecules, 2010, 47, 164-170.	3.6	126
5	Microwave assisted synthesis of polyacrylamide grafted gum ghatti and its application as flocculant. Carbohydrate Polymers, 2012, 89, 275-281.	5.1	126
6	Microwave initiated synthesis and application of polyacrylic acid grafted carboxymethyl cellulose. Carbohydrate Polymers, 2012, 87, 2255-2262.	5.1	112
7	Novel biodegradable polymeric flocculant based on polyacrylamide-grafted tamarind kernel polysaccharide. Bioresource Technology, 2010, 101, 9638-9644.	4.8	109
8	Microwaveâ€initiated synthesis of polyacrylamide grafted sodium alginate: Synthesis and characterization. Journal of Applied Polymer Science, 2010, 115, 63-71.	1.3	99
9	Microwave based synthesis of polymethyl methacrylate grafted sodium alginate: its application as flocculant. Carbohydrate Polymers, 2013, 91, 686-692.	5.1	99
10	Microwave initiated synthesis of polyacrylamide grafted carboxymethylstarch (CMS-g-PAM): Application as a novel matrix for sustained drug release. International Journal of Biological Macromolecules, 2009, 45, 48-55.	3.6	89
11	Microwave initiated synthesis of polymethylmethacrylate grafted guar (GG-g-PMMA), characterizations and applications. International Journal of Biological Macromolecules, 2011, 48, 688-694.	3.6	80
12	Carboxymethyl tamarind: Synthesis, characterization and its application as novel drugâ€delivery agent. Journal of Applied Polymer Science, 2008, 110, 392-400.	1.3	73
13	Polyacrylamide grafted Agar: Synthesis and applications of conventional and microwave assisted technique. Carbohydrate Polymers, 2012, 90, 784-791.	5.1	65
14	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, 591-598.	3.6	64
15	Synthesis, characterization and applications of polymethylmethacrylate grafted psyllium as flocculant. Carbohydrate Polymers, 2014, 99, 462-468.	5.1	62
16	Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. Bioresource Technology, 2014, 151, 6-11.	4.8	62
17	Study of polyacrylamide grafted starch based algal flocculation towards applications in algal biomass harvesting. International Journal of Biological Macromolecules, 2012, 51, 456-461.	3.6	59
18	Microwave initiated synthesis of polyacrylamide grafted Psyllium and its application as a flocculant. International Journal of Biological Macromolecules, 2012, 50, 369-375.	3.6	56

#	Article	IF	Citations
19	Sesbania gum based hydrogel as platform for sustained drug delivery: An â€˜in vitroâ€™ study of 5-Fu release. International Journal of Biological Macromolecules, 2018, 113, 1116-1124.	3.6	55
20	Polyacrylamide Grafted Carboxymethyl Tamarind (CMTâ€gâ€PAM): Development and Application of a Novel Polymeric Flocculant. Macromolecular Symposia, 2009, 277, 100-111.	0.4	53
21	A novel polymeric flocculant based on polyacrylamide grafted inulin: Aqueous microwave assisted synthesis. Carbohydrate Polymers, 2014, 99, 11-21.	5.1	52
22	Ceric ion initiated synthesis of polyacrylamide grafted oatmeal: Its application as flocculant for wastewater treatment. Carbohydrate Polymers, 2013, 93, 528-536.	5.1	48
23	Carboxymethyl inulin: A novel flocculant for wastewater treatment. International Journal of Biological Macromolecules, 2014, 63, 1-7.	3.6	46
24	Cationic inulin: A plant based natural biopolymer for algal biomass harvesting. International Journal of Biological Macromolecules, 2015, 72, 868-874.	3.6	45
25	Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA. International Journal of Biological Macromolecules, 2014, 65, 375-382.	3.6	43
26	High performance flocculating agents based on cationic polysaccharides in relation to coal fine suspension. Carbohydrate Polymers, 2008, 74, 590-596.	5.1	42
27	Cationic tamarind kernel polysaccharide (Cat TKP): A novel polymeric flocculant for the treatment of textile industry wastewater. International Journal of Biological Macromolecules, 2009, 45, 518-523.	3.6	42
28	Gum ghatti based hydrogel: Microwave synthesis, characterization, 5-Fluorouracil encapsulation and â€˜in vitroâ€™ drug release evaluation. Carbohydrate Polymers, 2019, 222, 114979.	5.1	41
29	Microwave initiated synthesis of polyacrylamide grafted Casein (CAS-g-PAM)â€“Its application as a flocculant. International Journal of Biological Macromolecules, 2013, 60, 141-147.	3.6	39
30	Conferring Antibacterial Properties on Sesbania Gum via Microwave-Assisted Graft Copolymerization of DADMAC. Journal of Polymers and the Environment, 2018, 26, 3272-3282.	2.4	35
31	A novel polymeric biomaterial based on carboxymethylstarch and its application in controlled drug release. Journal of Applied Polymer Science, 2009, 114, 2798-2805.	1.3	29
32	Synthesis, characterization and flocculation studies of a novel graft copolymer towards destabilization of carbon nano-tubes from effluent. Polymer, 2017, 112, 159-168.	1.8	29
33	Synthesis of polyacrylamide grafted polyvinyl pyrollidone (PVP-g-PAM) and study of its application in algal biomass harvesting. Ecological Engineering, 2017, 100, 19-27.	1.6	27
34	Synthesis and applications of poly(2-hydroxyethylmethacrylate) grafted agar: A microwave based approach. International Journal of Biological Macromolecules, 2013, 61, 276-284.	3.6	26
35	Grafted sesbania gum: A novel derivative for sugarcane juice clarification. International Journal of Biological Macromolecules, 2018, 114, 349-356.	3.6	26
36	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.	2.3	25

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37	Polymethacrylic acid grafted psyllium (Psy-g-PMA): a novel material for waste water treatment. Applied Water Science, 2013, 3, 285-291.	2.8	20
38	Synthesis and characterization of polymethylmethacrylate grafted barley for treatment of industrial and municipal wastewater. Journal of Water Process Engineering, 2017, 18, 113-125.	2.6	18
39	Synthesis, characterization and application of novel polyacrylamideâ€grafted barley. Journal of Applied Polymer Science, 2014, 131, .	1.3	17
40	Novel Biocide Based on Cationic Derivative of Psyllium: Surface Modification and Antibacterial Activity. Journal of Polymers and the Environment, 2019, 27, 1178-1190.	2.4	17
41	Invitro evaluations of free radical assisted microwave irradiated polyacrylamide grafted cashew gum (CG) biocompatible graft copolymer (CG-g-PAM) as effective polymeric scaffold. Journal of Drug Delivery Science and Technology, 2020, 56, 101572.	1.4	17
42	Synthesis and study of hydrolyzed polyacrylamide grafted polyvinyl pyrrolidone (Hyd.PVP-g-PAM) as flocculant for removal of nanoparticles from aqueous system. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 32-42.	1.7	16
43	Modified PVP based hydrogel: Synthesis, characterization and application in selective abstraction of metal ions from water. Materials Chemistry and Physics, 2017, 194, 261-273.	2.0	14
44	Preparation, Properties and Application of Hydrogels: A Review. Gels Horizons: From Science To Smart Materials, 2018, , 145-173.	0.3	14
45	Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive. Industrial Crops and Products, 2014, 58, 251-258.	2.5	13
46	Synthesis of Diallyl dimethyl ammonium chloride grafted polyvinyl pyrrolidone (PVP-g-DADMAC) and its applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 263, 114750.	1.7	11
47	Alginic Acid Derivatives: Synthesis, Characterization and Application in Wastewater Treatment. Journal of Polymers and the Environment, 2019, 27, 2769-2783.	2.4	8
48	Synthesis and optimization of hydrolyzed gum ghatti as nano-hunters â€“ Flocculant for destabilization of nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 699-707.	2.3	7
49	Synthesis and Application as Programmable Water Soluble Adhesive of Polyacrylamide Grafted Gum Tragacanth (GT-g-PAM). , 2018, , 153-203.		6
50	Graft copolymer of PVPâ€"A sutureless, haemostatic bioadhesive for wound healing application. Polymer Bulletin, 2020, 77, 5191-5212.	1.7	6
51	Synthesis of a Novel Waterâ€Soluble Graft Copolymer for Mineral Ore Beneficiation and for River Water Treatment towards Drinking Water Augmentation. ChemistrySelect, 2022, 7, .	0.7	4
52	A Novel Biodegradable Cinnamic Acid Grafted Carboxymethyl Cellulose Based Flocculant for Water Treatment. Materials Science Forum, 0, 875, 156-166.	0.3	3
53	Microwave-assisted cationization of Gum ghatti by grafting with diallyldimethylammonium chloride (DADMAC) and its applications as nano scavenger. Industrial Crops and Products, 2022, 179, 114637.	2.5	3