

# Gautam Sen

## 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.

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 | Microwave-assisted cationization of Gum ghatti by grafting with diallyldimethylammonium chloride (DADMAC) and its applications as nano scavenger. <i>Industrial Crops and Products</i> , <b>2022</b> , 179, 114637  | 5.9  | 0         |
| 53 | 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> , <b>2021</b> , 263, 114750  | 3.1  | 4         |
| 52 | 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> , <b>2020</b> , 56, 101572                   | 4.5  | 12        |
| 51 | Graft copolymer of PVP as sutureless, haemostatic bioadhesive for wound healing application. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 5191-5212  | 2.4  | 4         |
| 50 | Alginate Derivatives: Synthesis, Characterization and Application in Wastewater Treatment. <i>Journal of Polymers and the Environment</i> , <b>2019</b> , 27, 2769-2783   | 4.5  | 4         |
| 49 | Gum ghatti based hydrogel: Microwave synthesis, characterization, 5-Fluorouracil encapsulation and in vitro drug release evaluation. <i>Carbohydrate Polymers</i> , <b>2019</b> , 222, 114979   | 10.3 | 18        |
| 48 | Novel Biocide Based on Cationic Derivative of Psyllium: Surface Modification and Antibacterial Activity. <i>Journal of Polymers and the Environment</i> , <b>2019</b> , 27, 1178-1190   | 4.5  | 8         |
| 47 | Conferring Antibacterial Properties on Sesbania Gum via Microwave-Assisted Graft Copolymerization of DADMAC. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 3272-3282   | 4.5  | 26        |
| 46 | Grafted sesbania gum: A novel derivative for sugarcane juice clarification. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 114, 349-356  | 7.9  | 14        |
| 45 | Sesbania gum based hydrogel as platform for sustained drug delivery: An in vitro study of 5-Fu release. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 113, 1116-1124  | 7.9  | 36        |
| 44 | 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> , <b>2018</b> , 555, 699-707  | 5.1  | 5         |
| 43 | Synthesis and Application as Programmable Water Soluble Adhesive of Polyacrylamide Grafted Gum Tragacanth (GT-g-PAM) <b>2018</b> , 153-203  |      | 0         |
| 42 | 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> , <b>2018</b> , 236-237, 32-42 | 3.1  | 11        |
| 41 | Preparation, Properties and Application of Hydrogels: A Review. <i>Gels Horizons: From Science To Smart Materials</i> , <b>2018</b> , 145-173   |      | 6         |
| 40 | Synthesis, characterization and flocculation studies of a novel graft copolymer towards destabilization of carbon nano-tubes from effluent. <i>Polymer</i> , <b>2017</b> , 112, 159-168   | 3.9  | 23        |
| 39 | Synthesis and characterization of polymethylmethacrylate grafted barley for treatment of industrial and municipal wastewater. <i>Journal of Water Process Engineering</i> , <b>2017</b> , 18, 113-125   | 6.7  | 13        |
| 38 | Modified PVP based hydrogel: Synthesis, characterization and application in selective abstraction of metal ions from water. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 194, 261-273   | 4.4  | 10        |

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| 37 | Synthesis of polyacrylamide grafted polyvinyl pyrrolidone (PVP-g-PAM) and study of its application in algal biomass harvesting. <i>Ecological Engineering</i> , <b>2017</b> , 100, 19-27   | 3.9  | 21  |
| 36 | A Novel Biodegradable Cinnamic Acid Grafted Carboxymethyl Cellulose Based Flocculant for Water Treatment. <i>Materials Science Forum</i> , <b>2016</b> , 875, 156-166  | 0.4  | 3   |
| 35 | Cationic inulin: a plant based natural biopolymer for algal biomass harvesting. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 72, 868-74   | 7.9  | 37  |
| 34 | Microwave-Irradiated Synthesis of Agar-Based Graft Copolymers <b>2015</b> , 45-83  |      |     |
| 33 | Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. <i>Bioresource Technology</i> , <b>2014</b> , 151, 6-11   | 11   | 50  |
| 32 | Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 65, 375-82   | 7.9  | 33  |
| 31 | Carboxymethyl inulin: a novel flocculant for wastewater treatment. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 63, 1-7   | 7.9  | 35  |
| 30 | A novel polymeric flocculant based on polyacrylamide grafted inulin: aqueous microwave assisted synthesis. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 11-21  | 10.3 | 41  |
| 29 | Synthesis, characterization and application of novel polyacrylamide-grafted barley. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a   | 2.9  | 15  |
| 28 | Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive. <i>Industrial Crops and Products</i> , <b>2014</b> , 58, 251-258  | 5.9  | 10  |
| 27 | Synthesis, characterization and applications of polymethylmethacrylate grafted psyllium as flocculant. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 462-8  | 10.3 | 48  |
| 26 | Polymethacrylic acid grafted psyllium (Psy-g-PMA): a novel material for waste water treatment. <i>Applied Water Science</i> , <b>2013</b> , 3, 285-291   | 5    | 16  |
| 25 | Microwave initiated synthesis of polyacrylamide grafted casein (CAS-g-PAM)--its application as a flocculant. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 60, 141-7   | 7.9  | 33  |
| 24 | Synthesis and applications of poly(2-hydroxyethylmethacrylate) grafted agar: a microwave based approach. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 61, 276-84  | 7.9  | 16  |
| 23 | 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> , <b>2013</b> , 7, 312-321 | 4.5  | 18  |
| 22 | Study of algal biomass harvesting using cationic guar gum from the natural plant source as flocculant. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 675-81   | 10.3 | 114 |
| 21 | Ceric ion initiated synthesis of polyacrylamide grafted oatmeal: Its application as flocculant for wastewater treatment. <i>Carbohydrate Polymers</i> , <b>2013</b> , 93, 528-36   | 10.3 | 44  |
| 20 | Microwave based synthesis of polymethyl methacrylate grafted sodium alginate: its application as flocculant. <i>Carbohydrate Polymers</i> , <b>2013</b> , 91, 686-92   | 10.3 | 88  |

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| 19 | Study of polyacrylamide grafted starch based algal flocculation towards applications in algal biomass harvesting. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 51, 456-61   | 7.9  | 51  |
| 18 | Microwave initiated synthesis of polyacrylamide grafted Psyllium and its application as a flocculant. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 50, 369-75   | 7.9  | 49  |
| 17 | Polyacrylamide grafted Agar: synthesis and applications of conventional and microwave assisted technique. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 784-91  | 10.3 | 54  |
| 16 | Microwave initiated synthesis and application of polyacrylic acid grafted carboxymethyl cellulose. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 2255-2262  | 10.3 | 95  |
| 15 | Microwave assisted synthesis of polyacrylamide grafted gum ghatti and its application as flocculant. <i>Carbohydrate Polymers</i> , <b>2012</b> , 89, 275-81   | 10.3 | 110 |
| 14 | 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> , <b>2011</b> , 48, 106-11   | 7.9  | 129 |
| 13 | Microwave initiated synthesis of polymethylmethacrylate grafted guar (GG-g-PMMA), characterizations and applications. <i>International Journal of Biological Macromolecules</i> , <b>2011</b> , 48, 688-94   | 7.9  | 62  |
| 12 | 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> , <b>2011</b> , 49, 591-8   | 7.9  | 56  |
| 11 | Grafted Polysaccharides: Smart Materials of the Future, Their Synthesis and Applications <b>2011</b> , 99-127  |      | 3   |
| 10 | 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> , <b>2010</b> , 47, 164-70 | 7.9  | 106 |
| 9  | Microwave-initiated synthesis of polyacrylamide grafted sodium alginate: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 63-71  | 2.9  | 82  |
| 8  | Novel biodegradable polymeric flocculant based on polyacrylamide-grafted tamarind kernel polysaccharide. <i>Bioresource Technology</i> , <b>2010</b> , 101, 9638-44  | 11   | 93  |
| 7  | A novel polymeric biomaterial based on carboxymethylstarch and its application in controlled drug release. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 2798-2805  | 2.9  | 24  |
| 6  | A novel polymeric flocculant based on polyacrylamide grafted carboxymethylstarch. <i>Carbohydrate Polymers</i> , <b>2009</b> , 77, 822-831   | 10.3 | 146 |
| 5  | 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> , <b>2009</b> , 45, 48-55                         | 7.9  | 82  |
| 4  | Cationic tamarind kernel polysaccharide (Cat TKP): A novel polymeric flocculant for the treatment of textile industry wastewater. <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 45, 518-23   | 7.9  | 35  |
| 3  | Polyacrylamide Grafted Carboxymethyl Tamarind (CMT-g-PAM): Development and Application of a Novel Polymeric Flocculant. <i>Macromolecular Symposia</i> , <b>2009</b> , 277, 100-111  | 0.8  | 52  |
| 2  | Carboxymethyl tamarind: Synthesis, characterization and its application as novel drug-delivery agent. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 110, 392-400   | 2.9  | 62  |

- 1 High performance flocculating agents based on cationic polysaccharides in relation to coal fine suspension. *Carbohydrate Polymers*, **2008**, 74, 590-596 10.3 38