Sudipta Chatterjee

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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.

47 papers	2,893 citations	24 h-index	48 g-index
48 ext. papers	3,217 ext. citations	7.8 avg, IF	5.56 L-index

#	Paper	IF	Citations
47	Adsorption of congo red by chitosan hydrogel beads impregnated with carbon nanotubes. *Bioresource Technology*, **2010**, 101, 1800-6	11	309
46	Adsorptive removal of congo red, a carcinogenic textile dye by chitosan hydrobeads: Binding mechanism, equilibrium and kinetics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 299, 146-152	5.1	303
45	Enhanced adsorption of congo red from aqueous solutions by chitosan hydrogel beads impregnated with cetyl trimethyl ammonium bromide. *Bioresource Technology*, **2009**, 100, 2803-9	11	255
44	Adsorption of a model anionic dye, eosin Y, from aqueous solution by chitosan hydrobeads. *Journal of Colloid and Interface Science*, **2005**, 288, 30-5	9.3	216
43	The removal of nitrate from aqueous solutions by chitosan hydrogel beads. *Journal of Hazardous Materials*, **2009**, 164, 1012-8	12.8	205
42	Nitrate removal from aqueous solutions by cross-linked chitosan beads conditioned with sodium bisulfate. *Journal of Hazardous Materials*, **2009**, 166, 508-13	12.8	145
41	Congo red adsorption from aqueous solutions by using chitosan hydrogel beads impregnated with nonionic or anionic surfactant. *Bioresource Technology*, **2009**, 100, 3862-8	11	131
40	An e-nose made of carbon nanotube based quantum resistive sensors for the detection of eighteen polar/nonpolar VOC biomarkers of lung cancer. *Journal of Materials Chemistry B*, **2013**, 1, 4563-4575	7.3	92
39	Enhanced mechanical strength of chitosan hydrogel beads by impregnation with carbon nanotubes. *Carbon*, **2009**, 47, 2933-2936	10.4	80
38	Clarification of fruit juice with chitosan. *Process Biochemistry*, **2004**, 39, 2229-2232	4.8	76
37	Removal of Reactive Black 5 by zero-valent iron modified with various surfactants. *Chemical Engineering Journal*, **2010**, 160, 27-32	14.7	73
36	A new type of chitosan hydrogel sorbent generated by anionic surfactant gelation. *Bioresource Technology*, **2010**, 101, 3853-8	11	73
35	Review of Stimuli-Responsive Polymers in Drug Delivery and Textile Application. *Molecules*, **2019**, 24,	4.8	72
34	Adsorption of a cationic dye, methylene blue, on to chitosan hydrogel beads generated by anionic surfactant gelation. *Environmental Technology (United Kingdom)*, **2011**, 32, 1503-14	2.6	72
33	Thermoresponsive Hydrogels and Their Biomedical Applications: Special Insight into Their Applications in Textile Based Transdermal Therapy. *Polymers*, **2018**, 10,	4.5	66
32	Dual-responsive (pH/temperature) Pluronic F-127 hydrogel drug delivery system for textile-based transdermal therapy. *Scientific Reports*, **2019**, 9, 11658	4.9	63
31	Effect of the addition mode of carbon nanotubes for the production of chitosan hydrogel core-shell beads on adsorption of Congo red from aqueous solution. *Bioresource Technology*, **2011**, 102, 4402-9	11	58

30	Influence of impregnation of chitosan beads with cetyl trimethyl ammonium bromide on their structure and adsorption of congo red from aqueous solutions. *Chemical Engineering Journal*, **2009**, 155, 254-259	14.7	56
29	Influence of the polyethyleneimine grafting on the adsorption capacity of chitosan beads for Reactive Black 5 from aqueous solutions. *Chemical Engineering Journal*, **2011**, 166, 168-175	14.7	54
28	Enhanced coagulation of bentonite particles in water by a modified chitosan biopolymer. *Chemical Engineering Journal*, **2009**, 148, 414-419	14.7	50
27	Enhancement of growth and chitosan production by Rhizopus oryzae in whey medium by plant growth hormones. *International Journal of Biological Macromolecules*, **2008**, 42, 120-6	7.9	41
26	Encapsulation of fish oil with N-stearoyl O-butylglyceryl chitosan using membrane and ultrasonic emulsification processes. *Carbohydrate Polymers*, **2015**, 123, 432-42	10.3	40
25	Supersorption Capacity of Anionic Dye by Newer Chitosan Hydrogel Capsules via Green Surfactant Exchange Method. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 3604-3614	8.3	38
24	Enhanced molar sorption ratio for naphthalene through the impregnation of surfactant into chitosan hydrogel beads. *Bioresource Technology*, **2010**, 101, 4315-21	11	27
23	Preparation of microcapsules with multi-layers structure stabilized by chitosan and sodium dodecyl sulfate. *Carbohydrate Polymers*, **2012**, 90, 967-75	10.3	24
22	Impact of encapsulation on the physicochemical properties and gastrointestinal stability of fish oil. *LWT - Food Science and Technology*, **2016**, 65, 206-213	5.4	23
21	A study on antifungal activity of water-soluble chitosan against Macrophomina phaseolina. *International Journal of Biological Macromolecules*, **2014**, 67, 452-7	7.9	23
20	Drug delivery system of dual-responsive PF127 hydrogel with polysaccharide-based nano-conjugate for textile-based transdermal therapy. *Carbohydrate Polymers*, **2020**, 236, 116074	10.3	21
19	Development of multilayer microcapsules by a phase coacervation method based on ionic interactions for textile applications. *Pharmaceutics*, **2014**, 6, 281-97	6.4	20
18	Coagulation of soil suspensions containing nonionic or anionic surfactants using chitosan, polyacrylamide, and polyaluminium chloride. *Chemosphere*, **2009**, 75, 1307-14	8.4	20
17	The influence of 1-butanol and trisodium citrate ion on morphology and chemical properties of chitosan-based microcapsules during rigidification by alkali treatment. *Marine Drugs*, **2014**, 12, 5801-16	6	18
16	Enhanced solubilization of phenanthrene in Triton X-100 solutions by the addition of small amounts of chitosan. *Chemical Engineering Journal*, **2010**, 163, 450-453	14.7	18
15	Chitosan and chitosan-co-poly(epsilon-caprolactone) grafted multiwalled carbon nanotube transducers for vapor sensing. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2425-35	1.3	17
14	Microencapsulation of fish oil. *Lipid Technology*, **2016**, 28, 13-15		16
13	Influence of pH-responsive compounds synthesized from chitosan and hyaluronic acid on dual-responsive (pH/temperature) hydrogel drug delivery systems of Cortex Moutan. *International Journal of Biological Macromolecules*, **2021**, 168, 163-174	7.9	16

12	Influence of plant growth hormones on the growth of Mucor rouxii and chitosan production. *Microbiological Research*, **2009**, 164, 347-51	5.3	14
11	Synthesis and characterization of chitosan droplet particles by ionic gelation and phase coacervation. *Polymer Bulletin*, **2014**, 71, 1001-1013	2.4	13
10	Review of Applications and Future Prospects of Stimuli-Responsive Hydrogel Based on Thermo-Responsive Biopolymers in Drug Delivery Systems. *Polymers*, **2021**, 13,	4.5	12
9	Adsorption of Congo Red from Aqueous Solutions Using Chitosan Hydrogel Beads Formed by Various Anionic Surfactants. *Separation Science and Technology*, **2011**, 46, 986-996	2.5	10
8	A study on biochemical changes during cultivation of Rhizopus oryzae in deproteinized whey medium in relation to chitosan production. *Letters in Applied Microbiology*, **2014**, 59, 155-60	2.9	9
7	Effect of Surfactant Impregnation into Chitosan Hydrogel Beads Formed by Sodium Dodecyl Sulfate Gelation for the Removal of Congo Red. *Separation Science and Technology*, **2011**, 46, 2022-2031	2.5	9
6	Impact of the type of emulsifier on the physicochemical characteristics of the prepared fish oil-loaded microcapsules. *Journal of Microencapsulation*, **2017**, 34, 366-382	3.4	5
5	Stimuli-Responsive Hydrogels: An Interdisciplinary Overview **2019**,		3
4	Highly efficient capture of naphthalene by nonionic surfactants in hydrogel capsules. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 78, 75-80	5.3	3
3	Effect of chitosan addition on phenanthrene solubilization in anionic or cationic surfactant solutions. *Desalination and Water Treatment*, **2012**, 37, 253-258		2
2	Preparation of micro- and nano-emulsions of soybean oil and removal of sorbed phenanthrene from sandy soil. *Desalination and Water Treatment*, **2013**, 51, 3207-3214		1
1	Effect of coagulant addition on the sedimentation of a surfactant-containing washing solution used for phenanthrene-contaminated soil. *Korean Journal of Chemical Engineering*, **2011**, 28, 2293-2299	2.8	1