Sudipta Chatterjee

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2936070/publications.pdf

Version: 2024-02-01

48 papers	3,620 citations	201385 27 h-index	214527 47 g-index
48 all docs	48 docs citations	48 times ranked	4478 citing authors

#	Article	IF	Citations
1	Adsorption of congo red by chitosan hydrogel beads impregnated with carbon nanotubes. Bioresource Technology, 2010, 101, 1800-1806.	4.8	359
2	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.	2.3	354
3	Enhanced adsorption of congo red from aqueous solutions by chitosan hydrogel beads impregnated with cetyl trimethyl ammonium bromide. Bioresource Technology, 2009, 100, 2803-2809.	4.8	297
4	The removal of nitrate from aqueous solutions by chitosan hydrogel beads. Journal of Hazardous Materials, 2009, 164, 1012-1018.	6.5	244
5	Adsorption of a model anionic dye, eosin Y, from aqueous solution by chitosan hydrobeads. Journal of Colloid and Interface Science, 2005, 288, 30-35.	5.0	242
6	Nitrate removal from aqueous solutions by cross-linked chitosan beads conditioned with sodium bisulfate. Journal of Hazardous Materials, 2009, 166, 508-513.	6.5	165
7	Congo red adsorption from aqueous solutions by using chitosan hydrogel beads impregnated with nonionic or anionic surfactant. Bioresource Technology, 2009, 100, 3862-3868.	4.8	149
8	Dual-responsive (pH/temperature) Pluronic F-127 hydrogel drug delivery system for textile-based transdermal therapy. Scientific Reports, 2019, 9, 11658.	1.6	129
9	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.	2.9	115
10	Review of Stimuli-Responsive Polymers in Drug Delivery and Textile Application. Molecules, 2019, 24, 2547.	1.7	115
11	Thermoresponsive Hydrogels and Their Biomedical Applications: Special Insight into Their Applications in Textile Based Transdermal Therapy. Polymers, 2018, 10, 480.	2.0	112
12	Clarification of fruit juice with chitosan. Process Biochemistry, 2004, 39, 2229-2232.	1.8	97
13	Enhanced mechanical strength of chitosan hydrogel beads by impregnation with carbon nanotubes. Carbon, 2009, 47, 2933-2936.	5.4	92
14	Removal of Reactive Black 5 by zero-valent iron modified with various surfactants. Chemical Engineering Journal, 2010, 160, 27-32.	6.6	87
15	A new type of chitosan hydrogel sorbent generated by anionic surfactant gelation. Bioresource Technology, 2010, 101, 3853-3858.	4.8	82
16	Adsorption of a cationic dye, methylene blue, on to chitosan hydrogel beads generated by anionic surfactant gelation. Environmental Technology (United Kingdom), 2011, 32, 1503-1514.	1.2	82
17	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.	6.6	70
18	Effect of the addition mode of carbon nanotubes for the production of chitosan hydrogel coreâ€“shell beads on adsorption of Congo red from aqueous solution. Bioresource Technology, 2011, 102, 4402-4409.	4.8	68

#	Article	IF	Citations
19	Review of Applications and Future Prospects of Stimuli-Responsive Hydrogel Based on Thermo-Responsive Biopolymers in Drug Delivery Systems. Polymers, 2021, 13, 2086.	2.0	64
20	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.	6.6	62
21	Enhanced coagulation of bentonite particles in water by a modified chitosan biopolymer. Chemical Engineering Journal, 2009, 148, 414-419.	6.6	56
22	Supersorption Capacity of Anionic Dye by Newer Chitosan Hydrogel Capsules via Green Surfactant Exchange Method. ACS Sustainable Chemistry and Engineering, 2018, 6, 3604-3614.	3.2	56
23	Enhancement of growth and chitosan production by Rhizopus oryzae in whey medium by plant growth hormones. International Journal of Biological Macromolecules, 2008, 42, 120-126.	3.6	53
24	Drug delivery system of dual-responsive PF127 hydrogel with polysaccharide-based nano-conjugate for textile-based transdermal therapy. Carbohydrate Polymers, 2020, 236, 116074.	5.1	48
25	Encapsulation of fish oil with N-stearoyl O-butylglyceryl chitosan using membrane and ultrasonic emulsification processes. Carbohydrate Polymers, 2015, 123, 432-442.	5.1	44
26	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.	3.6	41
27	Enhanced molar sorption ratio for naphthalene through the impregnation of surfactant into chitosan hydrogel beads. Bioresource Technology, 2010, 101, 4315-4321.	4.8	30
28	Coagulation of soil suspensions containing nonionic or anionic surfactants using chitosan, polyacrylamide, and polyaluminium chloride. Chemosphere, 2009, 75, 1307-1314.	4.2	28
29	A study on antifungal activity of water-soluble chitosan against Macrophomina phaseolina. International Journal of Biological Macromolecules, 2014, 67, 452-457.	3.6	27
30	Preparation of microcapsules with multi-layers structure stabilized by chitosan and sodium dodecyl sulfate. Carbohydrate Polymers, 2012, 90, 967-975.	5.1	26
31	Impact of encapsulation on the physicochemical properties and gastrointestinal stability of fish oil. LWT - Food Science and Technology, 2016, 65, 206-213.	2.5	26
32	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, 5801-5816.	2.2	21
33	Development of Multilayer Microcapsules by a Phase Coacervation Method Based on Ionic Interactions for Textile Applications. Pharmaceutics, 2014, 6, 281-297.	2.0	21
34	Chitosan and Chitosan-co-Poly(Îµ-caprolactone) Grafted Multiwalled Carbon Nanotube Transducers for Vapor Sensing. Journal of Nanoscience and Nanotechnology, 2014, 14, 2425-2435.	0.9	20
35	Enhanced solubilization of phenanthrene in Triton X-100 solutions by the addition of small amounts of chitosan. Chemical Engineering Journal, 2010, 163, 450-453.	6.6	19
36	Microencapsulation of fish oil. Lipid Technology, 2016, 28, 13-15.	0.3	18

#	Article	IF	Citations
37	Synthesis and characterization of chitosan droplet particles by ionic gelation and phase coacervation. Polymer Bulletin, 2014, 71, 1001-1013.	1.7	17
38	Influence of plant growth hormones on the growth of Mucor rouxii and chitosan production. Microbiological Research, 2009, 164, 347-351.	2.5	16
39	Adsorption of Congo Red from Aqueous Solutions Using Chitosan Hydrogel Beads Formed by Various Anionic Surfactants. Separation Science and Technology, 2011, 46, 986-996.	1.3	12
40	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, 155-160.	1.0	12
41	Stimuli-Responsive Hydrogels: An Interdisciplinary Overview. , 0, , .		11
42	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.	1.3	9
43	Impact of the type of emulsifier on the physicochemical characteristics of the prepared fish oil-loaded microcapsules. Journal of Microencapsulation, 2017, 34, 366-382.	1.2	9
44	Improved adsorption of Congo red from aqueous solution using alkali-treated goethite impregnated chitosan hydrogel capsule. Journal of Environmental Chemical Engineering, 2022, 10, 108244.	3.3	8
45	Highly efficient capture of naphthalene by nonionic surfactants in hydrogel capsules. Journal of the Taiwan Institute of Chemical Engineers, 2017, 78, 75-80.	2.7	3
46	Effect of chitosan addition on phenanthrene solubilization in anionic or cationic surfactant solutions. Desalination and Water Treatment, 2012, 37, 253-258.	1.0	2
47	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.	1.2	1
48	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.	1.0	1