Mrinmoy Karmakar

List of Publications by Year
in descending order

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24 papers	841 citations	516710 16 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	588 citing authors

#	Article	IF	Citations
1	Synthesis of guar gum-g-(acrylic acid-co-acrylamide-co-3-acrylamido propanoic) Tj ETQq1 1 0.784314 rgBT /Over mechanism of Pb(<scp>ii</scp>)/Cd(<scp>ii</scp>)/Cu(<scp>ii</scp>)/MB/MV. Polymer Chemistry, 2017, 8, 6750-6777.	3.9	90
2	Systematic synthesis of pectin-g-(sodium acrylate-co-N-isopropylacrylamide) interpenetrating polymer network for superadsorption of dyes/M(<scp>ii</scp>): determination of physicochemical changes in loaded hydrogels. Polymer Chemistry, 2017, 8, 3211-3237.	3.9	80
3	Carbohydrate and collagen-based doubly-grafted interpenetrating terpolymer hydrogel via Nâ€“H activated in situ allocation of monomer for superadsorption of Pb(II), Hg(II), dyes, vitamin-C, and p-nitrophenol. Journal of Hazardous Materials, 2019, 369, 746-762.	12.4	71
4	An in situ approach for the synthesis of a gum ghatti-g-interpenetrating terpolymer network hydrogel for the high-performance adsorption mechanism evaluation of Cd(<scp>ii</scp>), Pb(<scp>ii</scp>), Bi(<scp>iii</scp>) and Sb(<scp>iii</scp>). Journal of Materials Chemistry A, 2018, 6, 8078-8100.	10.3	68
5	Pectin-grafted terpolymer superadsorbent via Nâ€“H activated strategic protrusion of monomer for removals of Cd(II), Hg(II), and Pb(II). Carbohydrate Polymers, 2019, 206, 778-791.	10.2	61
6	Starch-g-tetrapolymer hydrogel via in situ attached monomers for removals of Bi(III) and/or Hg(II) and dye(s): RSM-based optimization. Carbohydrate Polymers, 2019, 213, 428-440.	10.2	45
7	Fabrication of semisynthetic collagenic materials for mere/synergistic adsorption: A model approach of determining dye allocation by systematic characterization and optimization. International Journal of Biological Macromolecules, 2017, 102, 438-456.	7.5	44
8	In Situ Allocation of a Monomer in Pectin-g-Terpolymer Hydrogels and Effect of Comonomer Compositions on Superadsorption of Metal Ions/Dyes. ACS Omega, 2018, 3, 4163-4180.	3.5	43
9	Guar Gum-Grafted Terpolymer Hydrogels for Ligand-Selective Individual and Synergistic Adsorption: Effect of Comonomer Composition. ACS Omega, 2018, 3, 472-494.	3.5	43
10	Microstructural analyses of loaded and/or unloaded semisynthetic porous material for understanding of superadsorption and optimization by response surface methodology. Journal of Environmental Chemical Engineering, 2018, 6, 289-310.	6.7	38
11	Chitosan-grafted tetrapolymer using two monomers: pH-responsive high-performance removals of Cu(II), Cd(II), Pb(II), dichromate, and biphosphate and analyses of adsorbed microstructures. Environmental Research, 2019, 179, 108839.	7.5	38
12	Collagenic waste and rubber based resin-cured biocomposite adsorbent for high-performance removal(s) of Hg(II), safranine, and brilliant cresyl blue: A cost-friendly waste management approach. Journal of Hazardous Materials, 2019, 369, 199-213.	12.4	37
13	Tetrapolymer Network Hydrogels via Gum Ghatti-Grafted and Nâ€“H/Câ€“H-Activated Allocation of Monomers for Composition-Dependent Superadsorption of Metal Ions. ACS Omega, 2018, 3, 10692-10708.	3.5	32
14	Separation of tetrahydrofuran using RSM optimized accelerator-sulfur-filler of rubber membranes: Systematic optimization and comprehensive mechanistic study. Korean Journal of Chemical Engineering, 2017, 34, 1416-1434.	2.7	21
15	Scale-up one-pot synthesis of waste collagen and apple pomace pectin incorporated pentapolymer biocomposites: Roles of waste collagen for elevations of properties and unary/ ternary removals of Ti(IV), As(V), and V(V). Journal of Hazardous Materials, 2021, 409, 124873.	12.4	19
16	Role of ZDC/S ratio for pervaporative separation of organic liquids through modified EPDM membranes: rational mechanistic study of vulcanization. RSC Advances, 2016, 6, 69387-69403.	3.6	17
17	One-pot synthesis of sodium alginate-grafted-terpolymer hydrogel for As(III) and V(V) removal: In situ anchored comonomer and DFT studies on structures. Journal of Environmental Management, 2021, 294, 112932.	7.8	17
18	Structures, Properties, and Performancesâ€”Relationships of Polymeric Membranes for Pervaporative Desalination. Membranes, 2019, 9, 58.	3.0	16

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19	Synthesis of pH-responsive sodium alginate-g-tetrapolymers via N C and O C coupled in situ monomers: A reusable optimum hydrogel for removal of plant stressors. Journal of Molecular Liquids, 2020, 319, 114097.	4.9	12
20	Intrinsically Fluorescent Biocompatible Terpolymers for Detection and Removal of Bi(III) and Cell Imaging. ACS Applied Bio Materials, 2020, 3, 6155-6166.	4.6	12
21	Fabrication of composite membranes for pervaporation of tetrahydrofuran-water: Optimization of intrinsic property by response surface methodology and studies on vulcanization mechanism by density functional theory. Korean Journal of Chemical Engineering, 2018, 35, 1889-1910.	2.7	11
22	New property-performance optimization of scalable alginate-g-terpolymer for Ce(IV), Mo(VI), and W(VI) exclusions. Carbohydrate Polymers, 2020, 245, 116370.	10.2	11
23	Synthesis of gum tragacanth-grafted pentapolymer hydrogels for As(III) exclusion: Roles of microwaves, RSM optimization, and DFT studies. International Journal of Biological Macromolecules, 2021, 184, 909-925.	7.5	8
24	Processing, Characterization and Application of Natural Rubber Based Environmentally Friendly Polymer Composites. , 2019, , 855-897.		7