Mrinmoy Karmakar

List of Publications by Year
in descending order

24 papers	841 citations	516215 16 h-index	642321 23 g-index
24 all docs	24 docs citations	24 times ranked	588 citing authors

#	Article	IF	Citations
1	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.	6.5	19
2	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.	3.6	8
3	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.	3.8	17
4	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.	2.3	12
5	Intrinsically Fluorescent Biocompatible Terpolymers for Detection and Removal of Bi(III) and Cell Imaging. ACS Applied Bio Materials, 2020, 3, 6155-6166.	2.3	12
6	New property-performance optimization of scalable alginate-g-terpolymer for Ce(IV), Mo(VI), and W(VI) exclusions. Carbohydrate Polymers, 2020, 245, 116370.	5.1	11
7	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.	3.7	38
8	Processing, Characterization and Application of Natural Rubber Based Environmentally Friendly Polymer Composites. , 2019, , 855-897.		7
9	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.	6.5	37
10	Structures, Properties, and Performancesâ€"Relationships of Polymeric Membranes for Pervaporative Desalination. Membranes, 2019, 9, 58.	1.4	16
11	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.	5.1	45
12	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.	5.1	61
13	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.	6.5	71
14	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.	5.2	68
15	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.	1.6	43
16	Guar Gum-Grafted Terpolymer Hydrogels for Ligand-Selective Individual and Synergistic Adsorption: Effect of Comonomer Composition. ACS Omega, 2018, 3, 472-494.	1.6	43
17	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.	3.3	38
18	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.	1.6	32

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19	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.	1.2	11
20	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.	1.9	80
21	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.	3.6	44
22	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.	1.2	21
23	Synthesis of guar gum-g-(acrylic acid-co-acrylamide-co-3-acrylamido propanoic) Tj ETQq1 1 0.784314 rgBT /Overlock mechanism of Pb(<scp>ii</scp>)/Cd(<scp>ii</scp>)/Cu(<scp>ii</scp>)/MB/MV. Polymer Chemistry, 2017, 8, 6750-6777.	1.9	90
24	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.	1.7	17