

Himarati Mondal

List of Publications by Year in descending order

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#	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). <i>Journal of Hazardous Materials</i> , 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. <i>International Journal of Biological Macromolecules</i> , 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. <i>Journal of Environmental Management</i> , 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. <i>Journal of Molecular Liquids</i> , 2020, 319, 114097.	2.3	12
5	New property-performance optimization of scalable alginate-g-terpolymer for Ce(IV), Mo(VI), and W(VI) exclusions. <i>Carbohydrate Polymers</i> , 2020, 245, 116370.	5.1	11
6	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. <i>Environmental Research</i> , 2019, 179, 108839.	3.7	38
7	Structures, Properties, and Performances Relationships of Polymeric Membranes for Pervaporative Desalination. <i>Membranes</i> , 2019, 9, 58.	1.4	16
8	Starch-g-tetrapolymer hydrogel via in situ attached monomers for removals of Bi(III) and/or Hg(II) and dye(s): RSM-based optimization. <i>Carbohydrate Polymers</i> , 2019, 213, 428-440.	5.1	45
9	Pectin-grafted terpolymer superadsorbent via H activated strategic protrusion of monomer for removals of Cd(II), Hg(II), and Pb(II). <i>Carbohydrate Polymers</i> , 2019, 206, 778-791.	5.1	61
10	Carbohydrate and collagen-based doubly-grafted interpenetrating terpolymer hydrogel via H activated in situ allocation of monomer for superadsorption of Pb(II), Hg(II), dyes, vitamin-C, and p-nitrophenol. <i>Journal of Hazardous Materials</i> , 2019, 369, 746-762.	6.5	71
11	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(II), Pb(II), Bi(III) and Sb(III). <i>Journal of Materials Chemistry A</i> , 2018, 6, 8078-8100.	5.2	68
12	In Situ Allocation of a Monomer in Pectin-g-Terpolymer Hydrogels and Effect of Comonomer Compositions on Superadsorption of Metal Ions/Dyes. <i>ACS Omega</i> , 2018, 3, 4163-4180.	1.6	43
13	Guar Gum-Grafted Terpolymer Hydrogels for Ligand-Selective Individual and Synergistic Adsorption: Effect of Comonomer Composition. <i>ACS Omega</i> , 2018, 3, 472-494.	1.6	43
14	Microstructural analyses of loaded and/or unloaded semisynthetic porous material for understanding of superadsorption and optimization by response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 289-310.	3.3	38
15	Tetrapolymer Network Hydrogels via Gum Ghatti-Grafted and H/C-H-Activated Allocation of Monomers for Composition-Dependent Superadsorption of Metal Ions. <i>ACS Omega</i> , 2018, 3, 10692-10708.	1.6	32
16	Systematic synthesis of pectin-g-(sodium acrylate-co-N-isopropylacrylamide) interpenetrating polymer network for superadsorption of dyes/M(II): determination of physicochemical changes in loaded hydrogels. <i>Polymer Chemistry</i> , 2017, 8, 3211-3237.	1.9	80
17	Synthesis of guar gum-g-(acrylic acid-co-acrylamide-co-3-acrylamido propanoic) mechanism of Pb(II)/Cd(II)/Cu(II)/MB/MV. <i>Polymer Chemistry</i> , 2017, 8, 6750-6777.	1.9	90