

Pijush Kanti Chattopadhyay

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,438
citations

279487

23
h-index

344852

36
g-index

50
all docs

50
docs citations

50
times ranked

1066
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic effect of carbon black and nanoclay fillers in styrene butadiene rubber matrix: Development of dual structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 309-316.	3.8	154
2	Synthesis of guar gum-g-(acrylic acid-co-acrylamide-co-3-acrylamido propanoic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 mechanism of Pb(II)/Cd(II)/Cu(II)/MB/MV. <i>Polymer Chemistry</i> , 2017, 8, 6750-6777.	1.9	90
3	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
4	Carbohydrate and collagen-based doubly-grafted interpenetrating terpolymer hydrogel via NaOH 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
5	An in situ approach for the synthesis of a gum ghatti-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
6	Pectin-grafted terpolymer superadsorbent via NaOH 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
7	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
8	Fabrication of semisynthetic collagenic materials for mere/synergistic adsorption: A model approach of determining dye allocation by systematic characterization and optimization. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 438-456.	3.6	44
9	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
10	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
11	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
12	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
13	Collagenic waste and rubber based resin-cured biocomposite adsorbent for high-performance removal(s) of Hg(II), safranin, and brilliant cresyl blue: A cost-friendly waste management approach. <i>Journal of Hazardous Materials</i> , 2019, 369, 199-213.	6.5	37
14	Role of calcium stearate as a dispersion promoter for new generation carbon black-organoclay based rubber nanocomposites for tyre application. <i>Polymer Composites</i> , 2013, 34, 214-224.	2.3	32
15	Tetrapolymer Network Hydrogels via Gum Ghatti-Grafted and NaOH/NaOH-Activated Allocation of Monomers for Composition-Dependent Superadsorption of Metal Ions. <i>ACS Omega</i> , 2018, 3, 10692-10708.	1.6	32
16	Thermal and morphological analysis of thermoplastic polyurethane-clay nanocomposites: Comparison of efficacy of dual modified laponite vs. commercial montmorillonites. <i>Thermochimica Acta</i> , 2010, 510, 185-194.	1.2	31
17	Influence of interfacial roughness and the hybrid filler microstructures on the properties of ternary elastomeric composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1049-1059.	3.8	30
18	Fluorescent Guar Gum-g-Terpolymer via In Situ Acrylamido-Acid Fluorophore-Monomer in Cell Imaging, Pb(II) Sensor, and Security Ink. <i>ACS Applied Bio Materials</i> , 2020, 3, 1995-2006.	2.3	30

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19	Fluorescent Terpolymers via In Situ Allocation of Aliphatic Fluorophore Monomers: Fe(III) Sensor, High-Performance Removals, and Bioimaging. <i>Advanced Healthcare Materials</i> , 2019, 8, 1900980.	3.9	28
20	Synthesis of Biocompatible Aliphatic Terpolymers via In Situ Fluorescent Monomers for Three-in-One Applications: Polymerization of Hydrophobic Monomers in Water. <i>Langmuir</i> , 2020, 36, 6178-6187.	1.6	28
21	In Situ Attachment of Acrylamido Sulfonic Acid-Based Monomer in Terpolymer Hydrogel Optimized by Response Surface Methodology for Individual and/or Simultaneous Removal(s) of M(III) and Cationic Dyes. <i>ACS Omega</i> , 2019, 4, 1763-1780.	1.6	27
22	Scalable Synthesis of Collagenic-Waste and Natural Rubber-Based Biocomposite for Removal of Hg(II) and Dyes: Approach for Cost-Friendly Waste Management. <i>ACS Omega</i> , 2019, 4, 421-436.	1.6	27
23	Fluorescent Terpolymers Using Two Non-Emissive Monomers for Cr(III) Sensors, Removal, and Bio-Imaging. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1397-1407.	2.6	26
24	MOF and derived materials as aerogels: Structure, property, and performance relations. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214125.	9.5	23
25	Review on additives-based structure-property alterations in dyeing of collagenic matrices. <i>Journal of Molecular Liquids</i> , 2019, 293, 111470.	2.3	21
26	Multi- $\text{C}/\text{C}^{\sim}\text{N}^{\sim}$ -Coupled Light-Emitting Aliphatic Terpolymers: $\text{N}^{\sim}\text{H}^{\sim}$ -Functionalized Fluorophore Monomers and High-Performance Applications. <i>Chemistry - A European Journal</i> , 2020, 26, 502-516.	1.7	21
27	Light-Emitting Multifunctional Maleic Acid- CO_2 -(N -(hydroxymethyl)acrylamido)succinic Acid- CO_2 - N -(hydroxymethyl)acrylamide for Fe(III) Sensing, Removal, and Cell Imaging. <i>ACS Omega</i> , 2020, 5, 3333-3345.	1.6	20
28	Quantum chemical predictions of aqueous pK values for OH groups of some α -hydroxycarboxylic acids based on ab initio and DFT calculations. <i>Computational and Theoretical Chemistry</i> , 2018, 1125, 29-38.	1.1	19
29	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
30	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
31	Impact of carbon black substitution with nanoclay on microstructure and tribological properties of ternary elastomeric composites. <i>Materials & Design</i> , 2011, 32, 4696-4704.	5.1	16
32	Structures, Properties, and Performance Relationships of Polymeric Membranes for Pervaporative Desalination. <i>Membranes</i> , 2019, 9, 58.	1.4	16
33	Nonconventional biocompatible macromolecular AEEgens for sensitive detections and removals of Cu(II) and Fe(III): N and/or O donor(s) selective coordinations of metal ions. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129386.	4.0	15
34	Studies on novel dual filler based epoxidized natural rubber nanocomposite. <i>Polymer Composites</i> , 2010, 31, 835-846.	2.3	14
35	Nonconjugated Biocompatible Macromolecular Luminogens for Sensing and Removals of Fe(III) and Cu(II): DFT Studies on Selective Coordination(s) and On-Off Sensing. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000522.	2.0	13
36	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

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37	Intrinsically Fluorescent Biocompatible Terpolymers for Detection and Removal of Bi(III) and Cell Imaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 6155-6166.	2.3	12
38	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
39	Synthesis of Nonaromatic Macromolecular Luminogens, DFT Studies on Photophysics, and O ² -Donor Selective On ² -Off Sensors: Contributions of In Situ <i>N</i> -(Methylol)Acrylamido Comonomers. <i>Advanced Optical Materials</i> , 2021, 9, 2100802.	3.6	11
40	Light-Emitting Redox Polymers for Sensing and Removal-Reduction of Cu(II): Roles of Hydrogen Bonding in Nonconventional Fluorescence. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1643-1656.	2.0	11
41	Transition metal catalyzed oxidative aging of low density polyethylene: effect of manganese (III) acetate. <i>Journal of Polymer Research</i> , 2010, 17, 325-334.	1.2	10
42	PREDICTION OF EXTENT OF SWELLING IN TERNERY PARTICULATE RUBBER-NANOCOMPOSITES: DEVELOPMENT OF MODIFIED KRAUS EQUATION. <i>Rubber Chemistry and Technology</i> , 2011, 84, 1-23.	0.6	10
43	Ratiometric pH Sensing, Photophysics, and Cell Imaging of Nonaromatic Light-Emitting Polymers. <i>ACS Applied Bio Materials</i> , 2022, 5, 2990-3005.	2.3	9
44	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
45	Processing, Characterization and Application of Natural Rubber Based Environmentally Friendly Polymer Composites. , 2019, , 855-897.		7
46	Nontraditional Redox Active Aliphatic Luminescent Polymer for Ratiometric pH Sensing and Sensing-Removal-Reduction of Cu(II): Strategic Optimization of Composition. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	7
47	Contribution of organomodified clay on hybrid microstructures and properties of epoxidized natural rubber-based nanocomposites. <i>Polymer Engineering and Science</i> , 2013, 53, 923-930.	1.5	4
48	Mechanical and hydrodynamic swelling characteristics of bovine tanned leather post-treated by acrylic and glutaraldehyde tanning agents. <i>Bangladesh Journal of Scientific and Industrial Research</i> , 2016, 51, 1-12.	0.1	4
49	Starch-based blends and composites. , 2022, , 205-236.		3
50	Chitin and chitosan-based blends and composites. , 2022, , 123-203.		2