Ionic Fluorogels for Remediation of Per- and Polyfluorii Water

ACS Central Science 6, 487-492

DOI: 10.1021/acscentsci.9b01224

Citation Report

#	Article	IF	CITATIONS
1	Molecular mechanisms of per- and polyfluoroalkyl substances on a modified clay: a combined experimental and molecular simulation study. Water Research, 2020, 184, 116166.	11.3	62
2	Rapid and Efficient Removal of Perfluorooctanoic Acid from Water with Fluorine-Rich Calixarene-Based Porous Polymers. ACS Applied Materials & Samp; Interfaces, 2020, 12, 43160-43166.	8.0	40
3	Polymerized Molecular Receptors as Adsorbents to Remove Micropollutants from Water. Accounts of Chemical Research, 2020, 53, 2314-2324.	15.6	61
4	Thermally Driven Separation of Perfluoroalkyl Substances with High Efficiency. ACS Applied Materials & Lamp; Interfaces, 2020, 12, 40759-40767.	8.0	7
5	100th Anniversary of Macromolecular Science Viewpoint: Integrated Membrane Systems. ACS Macro Letters, 2020, 9, 1267-1279.	4.8	19
6	Fluorous-Core Nanoparticle-Embedded Hydrogel Synthesized via Tandem Photo-Controlled Radical Polymerization: Facilitating the Separation of Perfluorinated Alkyl Substances from Water. ACS Applied Materials & Description (2018), 24319-24327.	8.0	41
7	Fighting PFAS with PFAS. ACS Central Science, 2020, 6, 453-455.	11.3	10
9	Towards deployable electrochemical sensors for per- and polyfluoroalkyl substances (PFAS). Chemical Communications, 2021, 57, 8121-8130.	4.1	16
10	Amphiphilic Perfluoropolyether Copolymers for the Effective Removal of Polyfluoroalkyl Substances from Aqueous Environments. Macromolecules, 2021, 54, 3447-3457.	4.8	18
11	Translational Applications of Hydrogels. Chemical Reviews, 2021, 121, 11385-11457.	47.7	438
12	Mechanomorphogenic Films Formed via Interfacial Assembly of Fluorinated Amino Acids. Advanced Functional Materials, 2021, 31, 2104223.	14.9	6
13	Selfâ€Reporting Hydrogel Sensors Based on Surface Instabilityâ€Induced Optical Scattering. Advanced Photonics Research, 2021, 2, 2100058.	3.6	1
14	Polyacrylonitrile fiber functionalized with fluorous hyperbranched polyethylenimine for selective removal of perfluorooctane sulfonate (PFOS) in firefighting wastewaters. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 619, 126539.	4.7	14
15	Material Property Targets to Enable Adsorptive Water Treatment and Resource Recovery Systems. ACS ES&T Engineering, 2021, 1, 1171-1182.	7.6	5
16	Sensors for detecting per- and polyfluoroalkyl substances (PFAS): A critical review of development challenges, current sensors, and commercialization obstacles. Chemical Engineering Journal, 2021, 417, 129133.	12.7	50
17	GenX is not always a better fluorinated organic compound than PFOA: A critical review on aqueous phase treatability by adsorption and its associated cost. Water Research, 2021, 205, 117683.	11.3	20
18	Removal of HFPO-DA (GenX) from aqueous solutions: A mini-review. Chemical Engineering Journal, 2021, 424, 130266.	12.7	21
19	Remediation of GenX from water by amidoxime surface-functionalized electrospun polyacrylonitrile nanofibrous adsorbent. Chemosphere, 2021, 283, 131235.	8.2	24

#	Article	IF	Citations
20	Fluoropolymers in biomedical applications: state-of-the-art and future perspectives. Chemical Society Reviews, 2021, 50, 5435-5467.	38.1	151
21	Adsorption of short-chain perfluoroalkyl acids (PFAAs) from water/wastewater. Environmental Science: Water Research and Technology, 2020, 6, 2958-2972.	2.4	23
22	Assessing the perfluoroalkyl acid-induced swelling of FÃ \P rster resonance energy transfer-capable poly($\langle i \rangle N \langle i \rangle$ -isopropylacrylamide) microgels. Soft Matter, 2021, 17, 9799-9808.	2.7	2
23	Biological Utility of Fluorinated Compounds: from Materials Design to Molecular Imaging, Therapeutics and Environmental Remediation. Chemical Reviews, 2022, 122, 167-208.	47.7	172
24	Per- and Polyfluoroalkyl Substances Presence, Pathways, and Cycling through Drinking Water and Wastewater Treatment. Journal of Environmental Engineering, ASCE, 2022, 148, .	1.4	24
25	Recent advances in the preparation of semifluorinated polymers. Polymer Chemistry, 2021, 12, 6515-6526.	3.9	10
26	Functionalized bioâ€adsorbents for removal of perfluoroalkyl substances: A perspective. AWWA Water Science, 2021, 3, .	2.1	8
27	Rapid Removal of Poly- and Perfluoroalkyl Substances with Quaternized Wood Pulp. ACS ES&T Water, 2022, 2, 349-356.	4.6	10
28	Revealing the Molecular-Level Interactions between Cationic Fluorinated Polymer Sorbents and the Major PFAS Pollutant PFOA. Macromolecules, 2022, 55, 1077-1087.	4.8	17
29	Stimuliâ€Responsive Liquid Crystal Printheads for Spatial and Temporal Control of Polymerization. Advanced Materials, 2022, , 2106535.	21.0	8
30	Sequestration of per- and polyfluoroalkyl substances (PFAS) by adsorption: Surfactant and surface aspects. Current Opinion in Colloid and Interface Science, 2022, 58, 101571.	7.4	22
31	Nano-enhanced treatment of per-fluorinated and poly-fluorinated alkyl substances (PFAS). Current Opinion in Chemical Engineering, 2022, 35, 100779.	7.8	7
32	Rapid and Direct Perfluorooctanoic Acid Sensing with Selective Ionomer Coatings on Screen-Printed Electrodes under Environmentally Relevant Concentrations. ACS Omega, 2022, 7, 5001-5007.	3. 5	16
33	Validation of supercritical water oxidation to destroy perfluoroalkyl acids. Remediation, 2022, 32, 75-90.	2.4	15
34	Adsorption Mechanism of Perfluorooctanoate on Cyclodextrin-Based Polymers: Probing the Synergy of Electrostatic and Hydrophobic Interactions with Molecular Dynamics Simulations., 2022, 4, 853-859.		21
35	A dual grafted fluorinated hydrocarbon amine weak anion exchange resin polymer for adsorption of perfluorooctanoic acid from water. Journal of Hazardous Materials, 2022, 431, 128521.	12.4	14
36	Selectivity of Per- and Polyfluoroalkyl Substance Sensors and Sorbents in Water. ACS Applied Materials & Description (2011), 13, 60789-60814.	8.0	39
37	Novel Fluorinated Nitrogen-Rich Porous Organic Polymer for Efficient Removal of Perfluorooctanoic Acid from Water. Water (Switzerland), 2022, 14, 1010.	2.7	7

3

#	ARTICLE	IF	CITATIONS
38	Enhanced sorption of perfluorooctanoic acid with organically functionalized layered double hydroxide. Chemical Engineering Journal, 2022, 446, 137019.	12.7	17
39	Investigating the cytotoxic redox mechanism of PFOS within Hep G2 by hyperspectral-assisted scanning electrochemical microscopy. Analyst, The, 2022, 147, 4356-4364.	3.5	1
40	A Fluoroponytailed NHC–Silver Complex Formed from Vinylimidazolium/AgNO3 under Aqueous–Ammoniacal Conditions. Molecules, 2022, 27, 4137.	3.8	1
41	Hydrolytically Stable Ionic Fluorogels for Highâ€Performance Remediation of Per―and Polyfluoroalkyl Substances (PFAS) from Natural Water. Angewandte Chemie, 2022, 134, .	2.0	3
42	Hydrolytically Stable Ionic Fluorogels for Highâ€Performance Remediation of Per―and Polyfluoroalkyl Substances (PFAS) from Natural Water. Angewandte Chemie - International Edition, 2022, 61, .	13.8	12
43	Progress in the Detection and Quantification of Per- and Polyfluoroalkyl Substances (PFASs) in Surface Water., 2022,, 516-537.		0
44	Atomistic insights into the hydrodefluorination of PFAS using silylium catalysts. Environmental Sciences: Processes and Impacts, 2022, 24, 2085-2099.	3.5	2
45	Interaction of Short-Chain PFAS with Polycationic Gels: How Much Fluorination is Necessary for Efficient Adsorption?. ACS Macro Letters, 2022, 11, 1123-1128.	4.8	10
46	Supramolecular assemblies of a newly developed indole derivative for selective adsorption and photo-destruction of perfluoroalkyl substances. Water Research, 2022, 225, 119147.	11.3	6
47	Efficient Removal of Perfluorinated Chemicals from Contaminated Water Sources Using Magnetic Fluorinated Polymer Sorbents. Angewandte Chemie - International Edition, 2022, 61, .	13.8	19
48	Efficient Removal of Perfluorinated Chemicals from Contaminated Water Sources Using Magnetic Fluorinated Polymer Sorbents. Angewandte Chemie, 2022, 134, .	2.0	2
49	A Review on Per- and Polyfluoroalkyl Substances (PFAS) Remediation: Separation Mechanisms and Molecular Interactions. ACS ES&T Water, 2022, 2, 2258-2272.	4.6	13
50	Interfaces with Fluorinated Amphiphiles: Superstructures and Microfluidics. Angewandte Chemie - International Edition, 2023, 62, .	13.8	8
51	GrenzflÄ z hen mit fluorierten Amphiphilen: Überstrukturen und Mikrofluidik. Angewandte Chemie, 2023, 135, .	2.0	0
52	Detection and differentiation of per- and polyfluoroalkyl substances (PFAS) in water using a fluorescent imprint-and-report sensor array. Chemical Science, 2023, 14, 928-936.	7.4	11
53	Addressing Short-Chain PFAS Contamination in Water with Nanofibrous Adsorbent/Filter Material from Electrospinning. Accounts of Chemical Research, 2023, 56, 1271-1278.	15.6	9
54	Molecular framework for designing Fluoroclay with enhanced affinity for per- and polyfluoroalkyl substances. Water Research X, 2023, 19, 100175.	6.1	3
55	Enhanced adsorption of short-chain perfluorobutanoic acid by functionalized periodic mesoporous organosilica: Performance and mechanisms. Journal of Hazardous Materials, 2023, 449, 131047.	12.4	8

#	Article	IF	CITATIONS
56	Development of novel fluor mop materials for remediation of perfluoroalkyl substances (PFAS) from groundwater. Journal of Hazardous Materials, 2023, 448, 130853.	12.4	3
57	Novel Perfluorooctanesulfonate-Imprinted Polymer Immobilized on Spent Coffee Grounds Biochar for Selective Removal of Perfluoroalkyl Acids in Synthetic Wastewater. ACS ES&T Engineering, 2023, 3, 520-532.	7.6	6
58	Imparting Selective Fluorophilic Interactions in Redox Copolymers for the Electrochemically Mediated Capture of Short-Chain Perfluoroalkyl Substances. Journal of the American Chemical Society, 2023, 145, 9508-9519.	13.7	16
59	Organogels versus Hydrogels: Advantages, Challenges, and Applications. Advanced Functional Materials, 2023, 33, .	14.9	26
60	Efficient removal of short-chain and long-chain PFAS by cationic nanocellulose. Journal of Materials Chemistry A, 2023, 11, 9868-9883.	10.3	10
61	Thermal Phase Transition and Rapid Degradation of Forever Chemicals (PFAS) in Spent Media Using Induction Heating. ACS ES&T Engineering, 2023, 3, 1370-1380.	7.6	7
62	Sustainable filter/adsorbent materials from cellulose-based electrospun nanofibrous membranes with soy protein coating for high-efficiency GenX fluorocarbon remediation from water. Cellulose, 2023, 30, 7063-7078.	4.9	3
63	Immobilization of Microcystin by the Hydrogel–Biochar Composite to Enhance Biodegradation during Drinking Water Treatment. ACS ES&T Water, 2023, 3, 3044-3056.	4.6	2
64	Algae-Enhanced Electrospun Polyacrylonitrile Nanofibrous Membrane for High-Performance Short-Chain PFAS Remediation from Water. Nanomaterials, 2023, 13, 2646.	4.1	1
65	Emergent Materials and Processes for Efficient Environmental Per- and Polyfluoroalkyl Substances Containment. Challenges and Advances in Computational Chemistry and Physics, 2024, , 247-284.	0.6	0
66	Emerging 2D Materials-Based Nanoarchitecture for Water Purification. Challenges and Advances in Computational Chemistry and Physics, 2024, , 231-245.	0.6	0
67	Superfast removal of dyes and herbicides with triphenylamine-based porous organic polymers by one-step sulfonation and carboxylation. Separation and Purification Technology, 2023, 327, 124799.	7.9	0
68	Exploration of functionalizing graphene and the subsequent impact on PFAS adsorption capabilities via molecular dynamics. Chemosphere, 2023, , 140462.	8.2	1
69	Fluoropolymer Nanoparticles Synthesized via Reversible-Deactivation Radical Polymerizations and Their Applications. Chemical Reviews, 2023, 123, 12431-12470.	47.7	2
70	Linkage Transformations in a Three-Dimensional Covalent Organic Framework for High-Capacity Adsorption of Perfluoroalkyl Substances. ACS Applied Materials & Samp; Interfaces, O, , .	8.0	0
71	2D Fluorinated Graphene Oxide (FGO)-Polyethyleneimine (PEI) Based 3D Porous Nanoplatform for Effective Removal of Forever Toxic Chemicals, Pharmaceutical Toxins, and Waterborne Pathogens from Environmental Water Samples. ACS Omega, 2023, 8, 44942-44954.	3.5	0
72	Surfactants in the Environment: Self-Assembly of PFAS Pollutants in Solution and at Interfaces. ACS Symposium Series, 0, , 443-462.	0.5	0
73	Fluoropolymers as Unique and Irreplaceable Materials: Challenges and Future Trends in These Specific Per or Poly-Fluoroalkyl Substances. Molecules, 2023, 28, 7564.	3.8	2

#	Article	IF	CITATIONS
74	Development of Poly(acrylamide)-Based Hydrogel Composites with Powdered Activated Carbon for Controlled Sorption of PFOA and PFOS in Aqueous Systems. Polymers, 2023, 15, 4384.	4.5	0
75	Navigating the Expansive Landscapes of Soft Materials: A User Guide for High-Throughput Workflows. ACS Polymers Au, 2023, 3, 406-427.	4.1	1
76	Advancing PFAS Sorbent Design: Mechanisms, Challenges, and Perspectives. ACS Materials Au, 0, , .	6.0	0
77	Dynamic Worm-Gel Materials as Tunable, Regenerable Adsorbents for Water Treatment. Macromolecules, 2024, 57, 628-639.	4.8	0
78	Adsorption of perfluoroalkyl substances on deep eutectic solvent-based amorphous metal-organic framework: Structure and mechanism. Environmental Research, 2024, 248, 118261.	7. 5	1
79	Non-conventional sorption materials for the removal of legacy and emerging PFAS from water: A review. Emerging Contaminants, 2024, , 100303.	4.9	0
80	A Comprehensive Review of Novel Adsorbents for Per- and Polyfluoroalkyl Substances in Water. ACS ES&T Water, 2024, 4, 1191-1205.	4.6	0