

Preparation of aminated-polyacrylonitrile nanofiber membrane for removal of metal ions: Comparison with microfibers

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Removal of Cu(II) and Cr(VI) ions from aqueous solution using chelating fiber packed column: Equilibrium and kinetic studies. <i>Journal of Hazardous Materials</i> , 2011, 194, 92-99.	6.5	39
3	Synthesis of poly(aminopropyl/methyl)silsesquioxane particles as effective Cu(II) and Pb(II) adsorbents. <i>Journal of Hazardous Materials</i> , 2011, 196, 234-241.	6.5	32
4	Investigation of macroporous weakly basic anion exchangers applicability in palladium(II) removal from acidic solutions – batch and column studies. <i>Chemical Engineering Journal</i> , 2011, 174, 510-521.	6.6	37
5	Applicability of New Acrylic, Weakly Basic Anion Exchanger Purolite A-830 of Very High Capacity in Removal of Palladium(II) Chloro-complexes. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7223-7230.	1.8	19
6	Preparation of hierarchically nanofibrous membrane and its high adaptability in hexavalent chromium removal from water. <i>Chemical Engineering Journal</i> , 2012, 198-199, 310-317.	6.6	77
7	Polymer-clay nanocomposites via chemical grafting of polyacrylonitrile onto cloisite 20A. <i>Bulletin of Materials Science</i> , 2012, 35, 1063-1070.	0.8	11
8	Grafting modification of electrospun polystyrene fibrous membranes via an entrapped initiator in an acrylic acid aqueous solution. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4102-4109.	1.3	2
9	Poly(N,N-dimethylaminoethyl methacrylate) modification of a regenerated cellulose membrane using ATRP method for copper(ii) ion removal. <i>RSC Advances</i> , 2013, 3, 20625.	1.7	22
10	Surface modification of electrospun polyester nanofibers with cyclodextrin polymer for the removal of phenanthrene from aqueous solution. <i>Journal of Hazardous Materials</i> , 2013, 261, 286-294.	6.5	125
11	Efficient adsorption of gold ions from aqueous systems with thioamide-group chelating nanofiber membranes. <i>Chemical Engineering Journal</i> , 2013, 229, 420-428.	6.6	131
12	Characterization of cellulose-based electrospun nanofiber membrane and its adsorptive behaviours using Cu(II), Cd(II), Pb(II) as models. <i>Science China Chemistry</i> , 2013, 56, 567-575.	4.2	32
13	Antibacterial effect of carbon nanofibers containing Ag nanoparticles. <i>Fibers and Polymers</i> , 2013, 14, 1985-1992.	1.1	25
14	Characterization of electrospun polystyrene membrane for treatment of biodiesel's water-washing effluent using atomic force microscopy. <i>Desalination</i> , 2013, 329, 1-8.	4.0	70
15	Polyacrylonitrile/polyaniline core/shell nanofiber mat for removal of hexavalent chromium from aqueous solution: mechanism and applications. <i>RSC Advances</i> , 2013, 3, 8978.	1.7	114
16	Removal of uranium (VI) from aqueous solutions by adsorption using a novel electrospun PVA/TEOS/APTES hybrid nanofiber membrane: comparison with casting PVA/TEOS/APTES hybrid membrane. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 563-571.	0.7	64
17	Polyacrylonitrile/polypyrrole core/shell nanofiber mat for the removal of hexavalent chromium from aqueous solution. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 121-129.	6.5	249
18	Preparation of a novel electrospun polyvinyl alcohol/titanium oxide nanofiber adsorbent modified with mercapto groups for uranium(VI) and thorium(IV) removal from aqueous solution. <i>Chemical Engineering Journal</i> , 2013, 220, 161-171.	6.6	201
19	Chemically modified kapok fiber for fast adsorption of Pb ²⁺ , Cd ²⁺ , Cu ²⁺ from aqueous solution. <i>Cellulose</i> , 2013, 20, 849-860.	2.4	83

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21	Optimization of Polyacrylonitrile-2-aminothiazole Resin Synthesis, Characterization, and Its Adsorption Performance and Mechanism for Removal of Hg(II) from Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4978-4986.	1.8	77
22	Preparation of Amidoxime Polyacrylonitrile Chelating Nanofibers and Their Application for Adsorption of Metal Ions. <i>Materials</i> , 2013, 6, 969-980.	1.3	135
23	Optimization of conditions for Cu(II) adsorption on 110 resin from aqueous solutions using response surface methodology and its mechanism study. <i>Desalination and Water Treatment</i> , 2013, 51, 4613-4621.	1.0	8
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25	Hydrolyzed Poly(acrylonitrile) Electrospun Ion-Exchange Fibers. <i>Environmental Engineering Science</i> , 2014, 31, 288-299.	0.8	16
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27	Preparation of Micro/Nanoporous Polyacrylonitrile Nanofibers via <i>In Situ</i> Pore-Forming Method. <i>Applied Mechanics and Materials</i> , 2014, 556-562, 60-63.	0.2	3
28	Study on Heavy Metal Ion Adsorption of PAN-Amidoxime Nanofiber Nonwoven Material. <i>Advanced Materials Research</i> , 2014, 1033-1034, 1072-1076.	0.3	1
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30	Cyclodextrin-grafted electrospun cellulose acetate nanofibers via "Click" reaction for removal of phenanthrene. <i>Applied Surface Science</i> , 2014, 305, 581-588.	3.1	113
31	Surface functionalized nanofibers for the removal of chromium(VI) from aqueous solutions. <i>Chemical Engineering Journal</i> , 2014, 245, 201-209.	6.6	156
32	Acrylic acid grafted and acrylic acid/sodium humate grafted bamboo cellulose nanofibers for Cu ²⁺ adsorption. <i>RSC Advances</i> , 2014, 4, 55195-55201.	1.7	49
33	Reinforcement of Nafion into polyacrylonitrile (PAN) to fabricate them into nanofiber mats by electrospinning: characterization of enhanced mechanical and adsorption properties. <i>RSC Advances</i> , 2014, 4, 39110.	1.7	26
34	Facile Immobilization of Ag Nanocluster on Nanofibrous Membrane for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15272-15282.	4.0	152
35	Methylene Blue Adsorption from Aqueous Solution by Magnetic Cellulose/Graphene Oxide Composite: Equilibrium, Kinetics, and Thermodynamics. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1108-1118.	1.8	245
36	Mechanism study of selective heavy metal ion removal with polypyrrole-functionalized polyacrylonitrile nanofiber mats. <i>Applied Surface Science</i> , 2014, 316, 245-250.	3.1	54
37	Preparation of aminated polyacrylonitrile porous fiber mat and its Application for Cr(VI) ion removal. <i>Fibers and Polymers</i> , 2014, 15, 1364-1368.	1.1	12

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44	Preparation of Cellulose/Graphene Composite and Its Applications for Triazine Pesticides Adsorption from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 396-405.	3.2	156
45	Removal of Cu ²⁺ , Pb ²⁺ and Cr ⁶⁺ from aqueous solutions using a chitosan/graphene oxide composite nanofibrous adsorbent. <i>RSC Advances</i> , 2015, 5, 16532-16539.	1.7	178
46	Preparation of phosphorylated polyacrylonitrile-based nanofiber mat and its application for heavy metal ion removal. <i>Chemical Engineering Journal</i> , 2015, 268, 290-299.	6.6	148
47	Preparation and characterization of a novel electrospun ammonium molybdophosphate/polyacrylonitrile nanofiber adsorbent for cesium removal. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 305, 653-664.	0.7	11
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51	Remediation of metal contamination by electrokinetics coupled with electrospun polyacrylonitrile nanofiber membrane. <i>Chemical Engineering Research and Design</i> , 2015, 98, 1-10.	2.7	25
52	Poly(ethylene-co-vinyl alcohol) Functional Nanofiber Membranes for the Removal of Cr(VI) from Water. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6836-6844.	1.8	61
53	Functionalization of polyacrylonitrile nanofiber mat via surface-initiated atom transfer radical polymerization for copper ions removal from aqueous solution. <i>Desalination and Water Treatment</i> , 2015, 54, 2856-2867.	1.0	18
54	Synthesis and Adsorption Application of In Situ Photo-Cross-Linked Electrospun Poly(Vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 102 Td	1.1	11
55	Surface modification of PAN hollow fiber membrane by chemical reaction. <i>Fibers and Polymers</i> , 2015, 16, 788-793.	1.1	23

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56	High recovery of lead ions from aminated polyacrylonitrile nanofibrous affinity membranes with micro/nano structure. <i>Journal of Hazardous Materials</i> , 2015, 295, 161-169.	6.5	80
57	Electrospun nanofibrous cellulose diacetate nitrate membrane for protein separation. <i>Journal of Membrane Science</i> , 2015, 489, 204-211.	4.1	40
58	Micro-nano structure nanofibrous p-sulfonatocalix[8]arene complex membranes for highly efficient and selective adsorption of lanthanum(La^{3+}) ions in aqueous solution. <i>RSC Advances</i> , 2015, 5, 21178-21188.	1.7	30
59	Atrazine adsorption removal with nylon6/polypyrrole core-shell nanofibers mat: possible mechanism and characteristics. <i>Nanoscale Research Letters</i> , 2015, 10, 207.	3.1	42
60	Synthesis of magnetic hollow carbon nanospheres with superior microporosity for efficient adsorption of hexavalent chromium ions. <i>Science China Materials</i> , 2015, 58, 611-620.	3.5	9
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62	Preparation and adsorption behavior of diethylenetriamine/polyacrylonitrile composite nanofibers for a direct dye removal. <i>Fibers and Polymers</i> , 2015, 16, 1925-1934.	1.1	123
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65	Deposition of stable amine coating onto polycaprolactone nanofibers by low pressure cyclopropylamine plasma polymerization. <i>Thin Solid Films</i> , 2015, 581, 7-13.	0.8	36
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69	Development of adsorptive membranes by confinement of activated biochar into electrospun nanofibers. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1556-1563.	1.5	11
70	Removal of methylene blue from water by cellulose/graphene oxide fibres. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 1156-1170.	1.3	64
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72	Preparation of thiolation poly(aryl ether ketone) nanofiber mat and its adsorption of Hg ²⁺ ions. <i>Russian Journal of Applied Chemistry</i> , 2016, 89, 1706-1712.	0.1	2
73	Fabrication of PET/PAN/GO/Fe ₃ O ₄ nanofibrous membrane for the removal of Pb(II) and Cr(VI) ions. <i>Chemical Engineering Journal</i> , 2016, 301, 42-50.	6.6	97

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75	Dual applications of silver nanoparticles incorporated functionalized MWCNTs grafted surface modified PAN nanofibrous membrane for water purification. <i>RSC Advances</i> , 2016, 6, 109241-109252.	1.7	14
76	Optimization of the adsorption of Pb (II) from aqueous solution onto PAB nanocomposite using response surface methodology. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2016, 6, 116-129.	1.7	21
77	Efficient removal of arsenate by a surface functionalized chelating fiber based on polyacrylonitrile. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1634-1641.	1.3	3
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80	Preparation of aminated nanoporous nanofiber by solvent casting/porogen leaching technique and dye adsorption modeling. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 65, 378-389.	2.7	52
81	Preparation of Fe ₂ O ₃ /polyacrylonitrile nanofiber mat as an effective lead adsorbent. <i>Environmental Science: Nano</i> , 2016, 3, 894-901.	2.2	39
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83	Modified poly(vinyl alcohol)-triethylenetetramine nanofiber by glutaraldehyde: preparation and dye removal ability from wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 20076-20083.	1.0	48
84	Adsorption of nickel(II) on polyacrylonitrile nanofiber modified with 2-(2-pyridyl)imidazole. <i>Chemical Engineering Journal</i> , 2016, 284, 1106-1116.	6.6	39
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86	Chitosan nanofibers functionalized by TiO ₂ nanoparticles for the removal of heavy metal ions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 58, 333-343.	2.7	210
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89	Nanofiber-based brush-distributed sensor for detecting heavy metal ions. <i>Microsystem Technologies</i> , 2017, 23, 507-514.	1.2	5
90	Branched polyethylenimine grafted electrospun polyacrylonitrile fiber membrane: a novel and effective adsorbent for Cr(VI) remediation in wastewater. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1133-1144.	5.2	205
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93	Fabrication of <i>in situ</i> polymerized poly(butylene succinate-co-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 707 <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2622-2631.	2.1	8
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98	Adsorption of Toxic Metals on Modified Polyacrylonitrile Nanofibres: A Review. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	52
99	Preparing of poly(acrylonitrile-co-maleic acid) nanofiber mats for removal of Ni(II) and Cr(VI) ions from water. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 563-569.	2.7	8
100	Novel membrane adsorbents prepared by waste fibers of mechanized carpet for Persian Orange X removal. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2017, 8, 209-218.	1.7	8
101	Preparation of ureido-functionalized PVA/silica mesoporous fibre membranes via electrospinning for adsorption of Pb ²⁺ and Cu ²⁺ in wastewater. <i>Water Science and Technology</i> , 2017, 76, 2526-2534.	1.2	7
102	Hydrolysis of oxidized polyacrylonitrile nanofibrous webs and selective adsorption of harmful heavy metal ions. <i>Polymer Degradation and Stability</i> , 2017, 143, 207-213.	2.7	34
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105	Aromatic conjugated polymers for removal of heavy metal ions from wastewater: a short review. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 793-805.	1.2	43
106	Surface-modified polyacrylonitrile nanofibres as supports. <i>Polymer Bulletin</i> , 2017, 74, 2431-2442.	1.7	26
107	Removal of Cr(VI) using polyacrylonitrile/ferrous chloride composite nanofibers. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 70, 401-410.	2.7	19
108	Diethylenetriamine-assisted synthesis of amino-rich hydrothermal carbon-coated electrospun polyacrylonitrile fiber adsorbents for the removal of Cr(VI) and 2,4-dichlorophenoxyacetic acid. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 297-309.	5.0	95
109	Electrospun composite nanofiber mats of Cellulose@Organically modified montmorillonite for heavy metal ion removal: Design, characterization, evaluation of absorption performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 10-16.	3.8	87

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110	High performance agar/graphene oxide composite aerogel for methylene blue removal. Carbohydrate Polymers, 2017, 155, 345-353.	5.1	251
111	Graphene oxide/polyacrylonitrile fiber hierarchical-structured membrane for ultra-fast microfiltration of oil-water emulsion. Chemical Engineering Journal, 2017, 307, 643-649.	6.6	303
112	In situ synthesis of chemically active ZIF coordinated with electrospun fibrous film for heavy metal removal with a high flux. Separation and Purification Technology, 2017, 177, 257-262.	3.9	28
113	Hydroxylated γ -Fe ₂ O ₃ nanofiber: Optimization of synthesis conditions, anionic dyes adsorption kinetic, isotherm and error analysis. Journal of the Taiwan Institute of Chemical Engineers, 2017, 70, 188-199.	2.7	36
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126	Fluorinated-PAN nanofibers: Preparation, optimization, characterization and fog harvesting property. Journal of Industrial and Engineering Chemistry, 2018, 62, 146-155.	2.9	48
127	Synthesis and Characterization of Polymer Metal Chelates Derived from Poly(2,2,3,3-tetra) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 102 T	0.8	3
128	Progress in electrospun polymeric nanofibrous membranes for water treatment: Fabrication, modification and applications. Progress in Polymer Science, 2018, 77, 69-94.	11.8	582

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131	Adsorption capability of heavy metals by chitosan/poly(ethylene oxide)/activated carbon electrospun nanofibrous membrane. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45851.	1.3	63
132	Sulfonated poly(arylene ether nitrile)/polypyrrole core/shell nanofibrous mat: an efficient absorbent for the removal of hexavalent chromium from aqueous solution. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1432-1442.	1.6	26
133	Electrospun AOPAN/RC blend nanofiber membrane for efficient removal of heavy metal ions from water. <i>Journal of Hazardous Materials</i> , 2018, 344, 819-828.	6.5	128
134	Removal of Heavy Metal Ions from Aqueous Solutions Using Modified Poly(styrene-alt-maleic) Tj ETQq1 1 0.784314 rrgBT /Overlock 10	0.1	0
135	Hydrothermal Synthesis of Ultra-Light Coal-Based Graphene Oxide Aerogel for Efficient Removal of Dyes from Aqueous Solutions. <i>Nanomaterials</i> , 2018, 8, 670.	1.9	27
136	Recent advances in post-modification strategies of polymeric electrospun membranes. <i>European Polymer Journal</i> , 2018, 105, 227-249.	2.6	72
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