

# Rui Zhao

## List of Publications by Year in descending order

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47  
papers

3,527  
citations

126907

33  
h-index

223800

46  
g-index

47  
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47  
docs citations

47  
times ranked

4447  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of $\beta$ -Cyclodextrin-Based Electrospun Nanofiber Membranes for Highly Efficient Adsorption and Separation of Methylene Blue. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26649-26657.	8.0	288
2	Uniform and stable immobilization of metal-organic frameworks into chitosan matrix for enhanced tetracycline removal from water. <i>Chemical Engineering Journal</i> , 2020, 382, 122893.	12.7	258
3	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.	10.3	205
4	Electrospun chitosan/sericin composite nanofibers with antibacterial property as potential wound dressings. <i>International Journal of Biological Macromolecules</i> , 2014, 68, 92-97.	7.5	195
5	Lightweight and flexible electrospun polymer nanofiber/metal nanoparticle hybrid membrane for high-performance electromagnetic interference shielding. <i>NPG Asia Materials</i> , 2018, 10, 749-760.	7.9	170
6	Preparation of phosphorylated polyacrylonitrile-based nanofiber mat and its application for heavy metal ion removal. <i>Chemical Engineering Journal</i> , 2015, 268, 290-299.	12.7	148
7	Efficient adsorption of gold ions from aqueous systems with thioamide-group chelating nanofiber membranes. <i>Chemical Engineering Journal</i> , 2013, 229, 420-428.	12.7	131
8	Enhanced HCHO gas sensing properties by Ag-loaded sunflower-like $\text{In}_2\text{O}_3$ hierarchical nanostructures. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6598-6604.	10.3	128
9	Polydopamine coating assisted synthesis of $\text{MnO}_2$ loaded inorganic/organic composite electrospun fiber adsorbent for efficient removal of $\text{Pb}^{2+}$ from water. <i>Chemical Engineering Journal</i> , 2018, 344, 277-289.	12.7	125
10	Highly sensitive acetone sensor based on Eu-doped $\text{SnO}_2$ electrospun nanofibers. <i>Ceramics International</i> , 2016, 42, 15881-15888.	4.8	103
11	Water-insoluble sericin/ $\beta$ -cyclodextrin/PVA composite electrospun nanofibers as effective adsorbents towards methylene blue. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 375-382.	5.0	96
12	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.	9.4	95
13	An electrospun fiber based metal-organic framework composite membrane for fast, continuous, and simultaneous removal of insoluble and soluble contaminants from water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22559-22570.	10.3	89
14	Constructing Mesoporous Adsorption Channels and MOF-Polymer Interfaces in Electrospun Composite Fibers for Effective Removal of Emerging Organic Contaminants. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 755-764.	8.0	86
15	Enhanced adhesion and proliferation of human umbilical vein endothelial cells on conductive PANI-PCL fiber scaffold by electrical stimulation. <i>Materials Science and Engineering C</i> , 2017, 72, 106-112.	7.3	78
16	Lightweight and flexible Ni-Co alloy nanoparticle-coated electrospun polymer nanofiber hybrid membranes for high-performance electromagnetic interference shielding. <i>Journal of Alloys and Compounds</i> , 2019, 784, 244-255.	5.5	77
17	Surface Activated Hydrothermal Carbon-Coated Electrospun PAN Fiber Membrane with Enhanced Adsorption Properties for Herbicide. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2584-2592.	6.7	75
18	Fluorescein-based fluorescent porous aromatic framework for $\text{Fe}^{3+}$ detection with high sensitivity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2327-2332.	5.5	75

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19	Highly flexible magnesium silicate nanofibrous membranes for effective removal of methylene blue from aqueous solution. <i>Chemical Engineering Journal</i> , 2019, 359, 1603-1616.	12.7	74
20	Efficient Gold Recovery from E-Waste via a Chelate-Containing Porous Aromatic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30474-30482.	8.0	69
21	Electrospinning based all-nano composite materials: Recent achievements and perspectives. <i>Composites Communications</i> , 2018, 10, 140-150.	6.3	64
22	Hierarchical aminated PAN/AlOOH electrospun composite nanofibers and their heavy metal ion adsorption performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 62, 219-227.	5.3	63
23	Highly magnetizable superparamagnetic iron oxide nanoparticles embedded mesoporous silica spheres and their application for efficient recovery of DNA from agarose gel. <i>Journal of Materials Chemistry</i> , 2009, 19, 1811.	6.7	62
24	Functionalized magnetic iron oxide/polyacrylonitrile composite electrospun fibers as effective chromium (VI) adsorbents for water purification. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 1018-1030.	9.4	61
25	Porous Aromatic Framework Modified Electrospun Fiber Membrane as a Highly Efficient and Reusable Adsorbent for Pharmaceuticals and Personal Care Products Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16662-16673.	8.0	59
26	Facile hydrothermal synthesis of branched polyethylenimine grafted electrospun polyacrylonitrile fiber membrane as a highly efficient and reusable bilirubin adsorbent in hemoperfusion. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 675-685.	9.4	58
27	Nitrofurazone-loaded electrospun PLLA/sericin-based dual-layer fiber mats for wound dressing applications. <i>RSC Advances</i> , 2015, 5, 16940-16949.	3.6	57
28	Electrospun poly(vinylidene fluoride)-zinc oxide hierarchical composite fiber membrane as piezoelectric acoustoelectric nanogenerator. <i>Journal of Materials Science</i> , 2019, 54, 2754-2762.	3.7	57
29	Stable metal-organic framework fixing within zeolite beads for effectively static and continuous flow degradation of tetracycline by peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2022, 435, 134916.	12.7	49
30	Synthesis and characterization of tigecycline-loaded sericin/poly(vinyl alcohol) composite fibers via electrospinning as antibacterial wound dressings. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 44, 440-447.	3.0	48
31	Porous Aromatic Framework with Tailored Binding Sites and Pore Sizes as a High-Performance Hemoperfusion Adsorbent for Bilirubin Removal. <i>Advanced Science</i> , 2020, 7, 2001899.	11.2	47
32	Chitosan surface modified electrospun poly( $\mu$ -caprolactone)/carbon nanotube composite fibers with enhanced mechanical, cell proliferation and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 708-715.	7.5	45
33	Robust and durable superhydrophobic electrospun nanofibrous mats via a simple Cu nanocluster immobilization for oil-water contamination. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 173-183.	4.7	34
34	Porous Cationic Electrospun Fibers with Sufficient Adsorption Sites for Effective and Continuous $\text{TcO}_4^-$ Uptake. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	34
35	Ethanol chemiresistor with enhanced discriminative ability from acetone based on Sr-doped $\text{SnO}_2$ nanofibers. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 252-258.	9.4	32
36	Fabrication of $\text{Fe}_2\text{O}_3/\text{Al}_2\text{O}_3$ core-shell nanofibers and their $\text{Cr}(\text{VI})$ adsorptive properties. <i>RSC Advances</i> , 2014, 4, 42376-42382.	3.6	28

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37	Electrospun mupirocin loaded polyurethane fiber mats for anti-infection burn wound dressing application. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 162-176.	3.5	28
38	Fabrication of highly dispersed ultrafine Co <sub>9</sub> S <sub>8</sub> nanoparticles on carbon nanofibers as low-cost counter electrode for dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 95-103.	9.4	27
39	Blood-compatible Polyaniline Coated Electrospun Polyurethane Fiber Scaffolds for Enhanced Adhesion and Proliferation of Human Umbilical Vein Endothelial Cells. <i>Fibers and Polymers</i> , 2019, 20, 250-260.	2.1	26
40	A novel floating adsorbents system of acid orange 7 removal: Polymer grafting effect. <i>Separation and Purification Technology</i> , 2019, 227, 115677.	7.9	21
41	Preparation of molecularly imprinted sericin/poly(vinyl alcohol) electrospun fibers for selective removal of methylene blue. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 986-994.	2.6	17
42	Complete Lifecycle Available, Lightweight and Flexible Hierarchical Structured Bi <sub>2</sub> WO <sub>6</sub> /WO <sub>3</sub> /PAN Nanofibrous Membrane for X-Ray Shielding and Photocatalytic Degradation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002131.	3.7	17
43	Multispectral electromagnetic shielding using ultra-thin metal-metal oxide decorated hybrid nanofiber membranes. <i>Communications Materials</i> , 2021, 2, .	6.9	13
44	Turning Electronic Waste to Continuous-Flow Reactor Using Porous Aromatic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 25601-25608.	8.0	7
45	Acyl thioacetamide-group chelated nanofiber to adsorb silver ions from aqueous systems. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 685-689.	2.6	4
46	In Situ Vapor Polymerization of Poly(3,4-ethylenedioxythiophene) Coated SnO <sub>2</sub> -Fe <sub>2</sub> O <sub>3</sub> Continuous Electrospun Nanotubes for Rapid Detection of Iodide Ions. <i>Materials</i> , 2018, 11, 2084.	2.9	4
47	Electrospun Filters for Heavy Metals Removal. , 2018, , 85-113.		0