Ayse Asatekin

List of Publications by Year
in descending order

58 papers	3,506 citations	201385 27 h-index	155451 55 g-index
60 all docs	60 docs citations	60 times ranked	3959 citing authors

#	Article	IF	Citations
1	A critical review and commentary on recent progress of additive manufacturing and its impact on membrane technology. Journal of Membrane Science, 2022, 645, 120041.	4.1	38
2	Ultraâ€Fast Click Modification of Selfâ€Assembled Zwitterionic Copolymer Membranes for Enhanced Ion Selectivity. Advanced Materials Interfaces, 2022, 9, .	1.9	1
3	Fouling- and Chlorine-Resistant Nanofiltration Membranes Fabricated from Charged Zwitterionic Amphiphilic Copolymers. ACS Applied Polymer Materials, 2022, 4, 7998-8008.	2.0	8
4	Fouling-Resistant Membranes with Tunable Pore Size Fabricated Using Cross-Linkable Copolymers with High Zwitterion Content. , 2022, 2, 100019.		3
5	Electrospraying Zwitterionic Copolymers as an Effective Biofouling Control for Accurate and Continuous Monitoring of Wastewater Dynamics in a Real-Time and Long-Term Manner. Environmental Science & Technology, 2022, 56, 8176-8186.	4.6	9
6	Laboratory Efficacy of Locally Available Backwashing Methods at Removing Fouling in Hollow-Fiber Membrane Filters Used for Household Water Treatment. Membranes, 2021, 11, 375.	1.4	3
7	Zwitterionic Ion-Selective Membranes with Tunable Subnanometer Pores and Excellent Fouling Resistance. Chemistry of Materials, 2021, 33, 4408-4416.	3.2	34
8	Crystallization kinetics, polymorphism fine tuning, and rigid amorphous fraction of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	1
9	Interaction-based ion selectivity exhibited by self-assembled, cross-linked zwitterionic copolymer membranes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	20
10	Printing zwitterionic self-assembled thin film composite membranes: Tuning thickness leads to remarkable permeability for nanofiltration. Journal of Membrane Science, 2021, 635, 119428.	4.1	26
11	Glass-Forming Ability of Polyzwitterions. Macromolecules, 2021, 54, 10126-10134.	2.2	5
12	Ionic strength-responsive poly(sulfobetaine methacrylate) microgels for fouling removal during ultrafiltration. Reactive and Functional Polymers, 2020, 156, 104738.	2.0	10
13	Foulant Adsorption to Heterogeneous Surfaces with Zwitterionic Nanoscale Domains. ACS Applied Polymer Materials, 2020, 2, 4709-4718.	2.0	12
14	Relaxation dynamics of blends of <scp>PVDF</scp> and zwitterionic copolymer by dielectric relaxation spectroscopy. Journal of Polymer Science, 2020, 58, 1311-1324.	2.0	11
15	Synthesis and Self-Assembly of Fully Zwitterionic Triblock Copolymers. , 2020, 2, 261-265.		12
16	Membranes with Thin Hydrogel Selective Layers Containing Viral-Templated Palladium Nanoparticles for the Catalytic Reduction of Cr(VI) to Cr(III). ACS Applied Nano Materials, 2019, 2, 5233-5244.	2.4	22
17	High Flux Membranes with Ultrathin Zwitterionic Copolymer Selective Layers with â^¼1 nm Pores Using an Ionic Liquid Cosolvent. ACS Applied Polymer Materials, 2019, 1, 1954-1959.	2.0	12
18	Thermal properties and structure of electrospun blends of PVDF with a fluorinated copolymer. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 312-322.	2.4	16

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19	Zwitterionic copolymer additive architecture affects membrane performance: fouling resistance and surface rearrangement in saline solutions. Journal of Materials Chemistry A, 2019, 7, 4829-4846.	5.2	55
20	Simple Surface Modification of Poly(dimethylsiloxane) via Surface Segregating Smart Polymers for Biomicrofluidics. Scientific Reports, 2019, 9, 7377.	1.6	144
21	Co-Deposition of Stimuli-Responsive Microgels with Foulants During Ultrafiltration as a Fouling Removal Strategy. ACS Applied Materials & Interfaces, 2019, 11, 18711-18719.	4.0	11
22	Membranes with Functionalized Nanopores for Aromaticity-Based Separation of Small Molecules. ACS Applied Materials & Interfaces, 2019, 11, 12854-12862.	4.0	20
23	Superoleophilic, Mechanically Strong Electrospun Membranes for Fast and Efficient Gravity-Driven Oil/Water Separation. ACS Applied Polymer Materials, 2019, 1, 765-776.	2.0	45
24	Electrospun fiber membranes from blends of poly(vinylidene fluoride) with foulingâ€resistant zwitterionic copolymers. Polymer International, 2019, 68, 231-239.	1.6	20
25	Acceptability, effectiveness, and fouling of PointOne membrane filters distributed in South Sudan. Journal of Water Sanitation and Hygiene for Development, 2019, 9, 247-257.	0.7	4
26	Hydrophobic Antifouling Electrospun Mats from Zwitterionic Amphiphilic Copolymers. ACS Applied Materials & Interfaces, 2018, 10, 18300-18309.	4.0	47
27	A Method for Manufacturing Membranes with Ultrathin Hydrogel Selective Layers for Protein Purification: Interfacially Initiated Free Radical Polymerization (IIFRP). Chemistry of Materials, 2018, 30, 1265-1276.	3.2	26
28	Selective Transport through Membranes with Charged Nanochannels Formed by Scalable Self-Assembly of Random Copolymer Micelles. ACS Nano, 2018, 12, 95-108.	7.3	64
29	Controlling and Expanding the Selectivity of Filtration Membranes. Chemistry of Materials, 2018, 30, 7328-7354.	3.2	70
30	Recent advances in nonbiofouling PDMS surface modification strategies applicable to microfluidic technology. Technology, 2017, 05, 1-12.	1.4	120
31	Self-Cleaning Membranes from Comb-Shaped Copolymers with Photoresponsive Side Groups. ACS Applied Materials & Interfaces, 2017, 9, 13619-13631.	4.0	44
32	Zwitterion-containing polymer additives for fouling resistant ultrafiltration membranes. Journal of Membrane Science, 2017, 533, 141-159.	4.1	103
33	Spontaneous Selfâ€Assembly and Micellization of Random Copolymers in Organic Solvents. Macromolecular Chemistry and Physics, 2017, 218, 1700226.	1.1	25
34	Extremely fouling resistant zwitterionic copolymer membranes with ~ 1 nm pore size for treating municipal, oily and textile wastewater streams. Journal of Membrane Science, 2017, 543, 184-194.	4.1	69
35	Self-Assembling Zwitterionic Copolymers as Membrane Selective Layers with Excellent Fouling Resistance: Effect of Zwitterion Chemistry. ACS Applied Materials & Interfaces, 2017, 9, 20859-20872.	4.0	138
36	Zwitterion-Containing Ionogel Electrolytes. Chemistry of Materials, 2016, 28, 8480-8483.	3.2	60

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37	Responsive filtration membranes by polymer self-assembly. Technology, 2016, 04, 217-228.	1.4	24
38	Fouling in hollow fiber membrane microfilters used for household water treatment. Journal of Water Sanitation and Hygiene for Development, 2015, 5, 220-228.	0.7	13
39	Response to: Lindquist, E. D., Norman, W. R., & Soerens, T. (2015) A review of: Fouling in hollow fiber membrane microfilters used for household water treatment (2015) Murray, A., Goeb, M., Stewart, B., Hopper, C., Peck, J., Meub, C., Asatekin, A. & Lantagne, D. J. WASHDEV 5 (2), 220â€“228 doi:10.2166/washdev.2015.206. Journal of Water Sanitation and Hygiene for Development, 2015, 5, 232-234.	0.7	0
40	Zwitterionic copolymer self-assembly for fouling resistant, high flux membranes with size-based small molecule selectivity. Journal of Membrane Science, 2015, 493, 755-765.	4.1	119
41	Nanoconfinement and Chemical Structure Effects on Permeation Selectivity of Self-Assembling Graft Copolymers. ACS Macro Letters, 2015, 4, 872-878.	2.3	13
42	Self-Assembled Polymer Nanostructures for Liquid Filtration Membranes: A Review. Nanoscience and Nanotechnology Letters, 2015, 7, 21-32.	0.4	23
43	Fabrication of a Microscale Device for Detection of Nitroaromatic Compounds. Journal of Microelectromechanical Systems, 2013, 22, 54-61.	1.7	8
44	Design of conformal, substrate-independent surface modification for controlled proteinadsorption by chemical vapor deposition (CVD). Soft Matter, 2012, 8, 31-43.	1.2	80
45	The Design and Synthesis of Hard and Impermeable, Yet Flexible, Conformal Organic Coatings. Advanced Materials, 2012, 24, 3692-3696.	11.1	40
46	Polymeric Nanopore Membranes for Hydrophobicity-Based Separations by Conformal Initiated Chemical Vapor Deposition. Nano Letters, 2011, 11, 677-686.	4.5	138
47	Functional Nanotube Membranes for Hydrophobicity-Based Separations by Initiated Chemical Vapor Deposition (iCVD). ACS Symposium Series, 2011, , 39-50.	0.5	2
48	Chemical Vapor Deposition of Conformal, Functional, and Responsive Polymer Films. Advanced Materials, 2010, 22, 1993-2027.	11.1	329
49	Nano Fracture Chemical Sensor for Explosives Detection. , 2010, , .		0
50	Designing polymer surfaces via vapor deposition. Materials Today, 2010, 13, 26-33.	8.3	123
51	Ultrafiltration Membranes Incorporating Amphiphilic Comb Copolymer Additives Prevent Irreversible Adhesion of Bacteria. Environmental Science & Technology, 2010, 44, 2406-2411.	4.6	85
52	Fouling resistant, high flux nanofiltration membranes from polyacrylonitrile-graft-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	4.1	98
53	Responsive Pore Size Properties of Composite NF Membranes Based on PVDF Graft Copolymers. Separation Science and Technology, 2009, 44, 3330-3345.	1.3	14
54	Oil Industry Wastewater Treatment with Fouling Resistant Membranes Containing Amphiphilic Comb Copolymers. Environmental Science & Technology, 2009, 43, 4487-4492.	4.6	205

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55	Protein antifouling mechanisms of PAN UF membranes incorporating PAN-g-PEO additive. Journal of Membrane Science, 2007, 296, 42-50.	4.1	194
56	Anti-fouling ultrafiltration membranes containing polyacrylonitrile-graft-poly(ethylene oxide) comb copolymer additives. Journal of Membrane Science, 2007, 298, 136-146.	4.1	404
57	Solâ^'Gel Synthesis of Vanadium Oxide within a Block Copolymer Matrix. Chemistry of Materials, 2006, 18, 2828-2833.	3.2	51
58	Antifouling nanofiltration membranes for membrane bioreactors from self-assembling graft copolymers. Journal of Membrane Science, 2006, 285, 81-89.	4.1	226