

# Mohammad Peydayesh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5394259/publications.pdf>

Version: 2024-02-01

48  
papers

2,944  
citations

257101

24  
h-index

214527

47  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable technologies for water purification from heavy metals: review and analysis. <i>Chemical Society Reviews</i> , 2019, 48, 463-487.	18.7	967
2	Protein nanofibrils for next generation sustainable water purification. <i>Nature Communications</i> , 2021, 12, 3248.	5.8	143
3	Adsorption of methylene blue onto <i>Platanus orientalis</i> leaf powder: Kinetic, equilibrium and thermodynamic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 1014-1019.	2.9	140
4	Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water. <i>Advanced Materials</i> , 2020, 32, e1907932.	11.1	117
5	Methylene blue adsorption via maize silk powder: Kinetic, equilibrium, thermodynamic studies and residual error analysis. <i>Chemical Engineering Research and Design</i> , 2017, 106, 191-202.	2.7	116
6	Effective treatment of dye wastewater via positively charged TETA-MWCNT/PES hybrid nanofiltration membranes. <i>Separation and Purification Technology</i> , 2018, 194, 488-502.	3.9	112
7	Stability and extraction study of phenolic wastewater treatment by supported liquid membrane using tributyl phosphate and sesame oil as liquid membrane. <i>Chemical Engineering Research and Design</i> , 2014, 92, 375-383.	2.7	107
8	A positively charged composite loose nanofiltration membrane for water purification from heavy metals. <i>Journal of Membrane Science</i> , 2020, 611, 118205.	4.1	102
9	Water desalination via novel positively charged hybrid nanofiltration membranes filled with hyperbranched polyethyleneimine modified MWCNT. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 69, 127-140.	2.9	78
10	Assessing the Binding Performance of Amyloid- $\beta$ Carbon Membranes toward Heavy Metal Ions. <i>Langmuir</i> , 2019, 35, 4161-4170.	1.6	74
11	Preparation and characterization of SAPO-34 $\beta$ -Matrimid <sup>®</sup> 5218 mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1335-1342.	2.7	68
12	Transition Metal Dichalcogenide- $\beta$ -Silk Nanofibril Membrane for One-Step Water Purification and Precious Metal Recovery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24521-24530.	4.0	68
13	Sustainable Removal of Microplastics and Natural Organic Matter from Water by Coagulation-Flocculation with Protein Amyloid Fibrils. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8848-8858.	4.6	67
14	An antiviral trap made of protein nanofibrils and iron oxyhydroxide nanoparticles. <i>Nature Nanotechnology</i> , 2021, 16, 918-925.	15.6	61
15	Turning Food Protein Waste into Sustainable Technologies. <i>Chemical Reviews</i> , 2023, 123, 2112-2154.	23.0	58
16	Fabrication optimization of polyethersulfone (PES)/polyvinylpyrrolidone (PVP) nanofiltration membranes using Box-Behnken response surface method. <i>RSC Advances</i> , 2017, 7, 24995-25008.	1.7	50
17	Amyloid Fibril Templated MOF Aerogels for Water Purification. <i>Small</i> , 2022, 18, e2105502.	5.2	43
18	Dye removal using 4A-zeolite/polyvinyl alcohol mixed matrix membrane adsorbents: preparation, characterization, adsorption, kinetics, and thermodynamics. <i>Research on Chemical Intermediates</i> , 2016, 42, 5309-5328.	1.3	37

#	ARTICLE	IF	CITATIONS
19	Sustainable Bioplastics from Amyloid Fibril-Biodegradable Polymer Blends. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11916-11926.	3.2	36
20	PVA/PES-amine-functional graphene oxide mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> separation: Experimental and modeling. <i>Chemical Engineering Research and Design</i> , 2016, 109, 647-656.	2.7	35
21	Mass Transfer Mechanism and Equilibrium Modelling of Hydroxytyrosol Adsorption on Olive Pit-Derived Activated Carbon. <i>Chemical Engineering Journal</i> , 2021, 404, 126519.	6.6	35
22	Pertraction of methylene blue using a mixture of D2EHPA/M2EHPA and sesame oil as a liquid membrane. <i>Chemical Papers</i> , 2013, 67, .	1.0	31
23	Membrane-based technologies for per- and poly-fluoroalkyl substances (PFASs) removal from water: Removal mechanisms, applications, challenges and perspectives. <i>Environment International</i> , 2021, 157, 106876.	4.8	27
24	Ubiquitous aluminium contamination in water and amyloid hybrid membranes as a sustainable possible solution. <i>Chemical Communications</i> , 2019, 55, 11143-11146.	2.2	26
25	Oat Plant Amyloids for Sustainable Functional Materials. <i>Advanced Science</i> , 2022, 9, e2104445.	5.6	26
26	Cu(II) adsorption onto <i>Platanus orientalis</i> leaf powder: kinetic, isotherm, and thermodynamic studies. <i>Research on Chemical Intermediates</i> , 2015, 41, 7669-7681.	1.3	25
27	Plant-based amyloids from food waste for removal of heavy metals from contaminated water. <i>Chemical Engineering Journal</i> , 2022, 445, 136513.	6.6	25
28	Prediction of CO <sub>2</sub> /CH <sub>4</sub> permeability through Sigma-1® Matrimid® 5218 MMMs using the Maxwell model. <i>Journal of Membrane Science</i> , 2014, 466, 265-273.	4.1	21
29	Novel crosslinked and zeolite-filled polyvinyl alcohol membrane adsorbents for dye removal. <i>Research on Chemical Intermediates</i> , 2015, 41, 9845-9862.	1.3	21
30	Effective hydrogen purification from methane via polyimide Matrimid® 5218- Deca-dodecyl 3R type zeolite mixed matrix membrane. <i>Energy</i> , 2017, 141, 2100-2107.	4.5	21
31	Amyloid-based carbon aerogels for water purification. <i>Chemical Engineering Journal</i> , 2022, 449, 137703.	6.6	21
32	Pertraction of cadmium and zinc ions using a supported liquid membrane impregnated with different carriers. <i>Chemical Papers</i> , 2013, 67, .	1.0	19
33	Pertraction of l-lysine by supported liquid membrane using D2EHPA/M2EHPA. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 106, 50-58.	1.8	19
34	Polysaccharide-reinforced amyloid fibril hydrogels and aerogels. <i>Nanoscale</i> , 2021, 13, 12534-12545.	2.8	19
35	Effect of Polysaccharide Conformation on Ultrafiltration Separation Performance. <i>Carbohydrate Polymers</i> , 2021, 260, 117830.	5.1	16
36	Amyloid fibril-based membranes for PFAS removal from water. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1873-1884.	1.2	15

#	ARTICLE	IF	CITATIONS
37	Amyloid-templated Palladium Nanoparticles for Water Purification by Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
38	Optimization of vacuum membrane distillation parameters for water desalination using Box-Behnken design. <i>Desalination and Water Treatment</i> , 2015, 56, 2306-2315.	1.0	13
39	Renewable Water Harvesting by Amyloid Aerogels and Sun. <i>Advanced Sustainable Systems</i> , 2022, 6, 2100309.	2.7	13
40	PHENOLIC WASTEWATER TREATMENT BY SUPPORTED LIQUID MEMBRANE USING DIFFERENT COOKING OILS AS LIQUID MEMBRANE. <i>Chemical Engineering Communications</i> , 2014, 201, 1593-1605.	1.5	10
41	Treatment of bentazon herbicide solutions by vacuum membrane distillation. <i>Journal of Water Process Engineering</i> , 2015, 8, e17-e22.	2.6	9
42	Assessment of <i>Urtica</i> as a low-cost adsorbent for methylene blue removal: kinetic, equilibrium, and thermodynamic studies. <i>Chemical Papers</i> , 2015, 69, .	1.0	8
43	Amyloid fibril-LiO-66-NH <sub>2</sub> aerogels for environmental remediation. <i>Chemical Communications</i> , 2022, 58, 5104-5107.	2.2	7
44	Polyacrylonitrile/Fe <sub>2</sub> O <sub>3</sub> Hybrid Photocatalytic Composite Adsorbents for Enhanced Dye Removal. <i>Chemical Engineering and Technology</i> , 2020, 43, 1214-1223.	0.9	6
45	Life Cycle Assessment of Hybrid Nanofiltration Desalination Plants in the Persian Gulf. <i>Membranes</i> , 2022, 12, 467.	1.4	6
46	Amyloid-templated Palladium Nanoparticles for Water Purification by Electroreduction. <i>Angewandte Chemie</i> , 0, , .	1.6	5
47	Nanofiltration Membranes: Recent Advances and Environmental Applications. <i>Membranes</i> , 2022, 12, 518.	1.4	4
48	Environmental Remediation: Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water ( <i>Adv. Mater.</i> 12/2020). <i>Advanced Materials</i> , 2020, 32, 2070094.	11.1	0