

# Hiroshi Yamamura

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4433702/publications.pdf>

Version: 2024-02-01

35  
papers

1,470  
citations

471509

17  
h-index

414414

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane Fouling in Pilot-Scale Membrane Bioreactors (MBRs) Treating Municipal Wastewater. <i>Environmental Science &amp; Technology</i> , 2005, 39, 6293-6299.	10.0	262
2	Mechanism Involved in the Evolution of Physically Irreversible Fouling in Microfiltration and Ultrafiltration Membranes Used for Drinking Water Treatment. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6789-6794.	10.0	212
3	Hydrophilic fraction of natural organic matter causing irreversible fouling of microfiltration and ultrafiltration membranes. <i>Water Research</i> , 2014, 54, 123-136.	11.3	155
4	Morphological and electrophysiological properties of ACCx nociceptive neurons in rats. <i>Brain Research</i> , 1996, 735, 83-92.	2.2	119
5	Affinity of Functional Groups for Membrane Surfaces: Implications for Physically Irreversible Fouling. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5310-5315.	10.0	108
6	Irreversible membrane fouling in microfiltration membranes filtering coagulated surface water. <i>Journal of Membrane Science</i> , 2008, 320, 356-362.	8.2	97
7	Comparison of fouling characteristics of two different poly-vinylidene fluoride microfiltration membranes in a pilot-scale drinking water treatment system using pre-coagulation/sedimentation, sand filtration, and chlorination. <i>Water Research</i> , 2008, 42, 2029-2042.	11.3	62
8	Irreversible Fouling in MF/UF Membranes Caused by Natural Organic Matters (NOMs) Isolated from Different Origins. <i>Separation Science and Technology</i> , 2006, 41, 1331-1344.	2.5	51
9	Transition in fouling mechanism in microfiltration of a surface water. <i>Water Research</i> , 2007, 41, 3812-3822.	11.3	48
10	Fouling characteristics of pressurized and submerged PVDF (polyvinylidene fluoride) microfiltration membranes in a pilot-scale drinking water treatment system under low and high turbidity conditions. <i>Desalination</i> , 2009, 244, 215-226.	8.2	42
11	Characteristics of meso-particles formed in coagulation process causing irreversible membrane fouling in the coagulation-microfiltration water treatment. <i>Water Research</i> , 2016, 101, 127-136.	11.3	34
12	Development of novel polysulfone membranes with embedded zirconium sulfate-surfactant micelle mesostructure for phosphate recovery from water through membrane filtration. <i>Water Research</i> , 2017, 124, 521-526.	11.3	33
13	Differences in behaviour of three biopolymer constituents in coagulation with polyaluminium chloride: Implications for the optimisation of a coagulation-membrane filtration process. <i>Water Research</i> , 2018, 133, 255-263.	11.3	31
14	Influence of calcium on the evolution of irreversible fouling in microfiltration/ultrafiltration membranes. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2007, 56, 425-434.	1.4	26
15	Digestion performance and contributions of organic and inorganic fouling in an anaerobic membrane bioreactor treating waste activated sludge. <i>Bioresource Technology</i> , 2019, 272, 63-69.	9.6	26
16	Influence of extracellular polysaccharides (EPS) produced by two different green unicellular algae on membrane filtration in an algae-based biofuel production process. <i>Water Science and Technology</i> , 2014, 69, 1919-1925.	2.5	21
17	Tracking inorganic foulants irreversibly accumulated on low-pressure membranes for treating surface water. <i>Water Research</i> , 2015, 87, 218-224.	11.3	17
18	Performance of anaerobic membrane bioreactor during digestion and thickening of aerobic membrane bioreactor excess sludge. <i>Bioresource Technology</i> , 2016, 218, 476-479.	9.6	17

#	ARTICLE	IF	CITATIONS
19	Solid-phase fluorescence excitation emission matrix for in-situ monitoring of membrane fouling during microfiltration using a polyvinylidene fluoride hollow fiber membrane. <i>Water Research</i> , 2019, 164, 114928.	11.3	17
20	Deformation modeling of polyvinylidenedifluoride (PVDF) symmetrical microfiltration hollow-fiber (HF) membrane. <i>Journal of Membrane Science</i> , 2016, 497, 421-429.	8.2	14
21	Dosage optimization of polyaluminum chloride by the application of convolutional neural network to the floc images captured in jar tests. <i>Separation and Purification Technology</i> , 2020, 237, 116467.	7.9	14
22	Effect of intensive membrane aeration and membrane flux on membrane fouling in submerged membrane bioreactors: Reducing specific air demand per permeate (SADp). <i>Separation and Purification Technology</i> , 2015, 148, 1-9.	7.9	10
23	Seasonal variation of effective chemical solution for cleaning of ultrafiltration membrane treating a surface water. <i>Separation and Purification Technology</i> , 2014, 132, 110-114.	7.9	9
24	Prediction of Asymmetric Yield Strengths of Polymeric Materials at Tension and Compression Using Spherical Indentation. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017, 139, .	1.4	8
25	Application of Graphene Oxide for Adsorption Removal of Geosmin and 2-Methylisoborneol in the Presence of Natural Organic Matter. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1907.	2.6	8
26	Interactions of dissolved humic substances with oppositely charged fluorescent dyes for tracer techniques. <i>Water Research</i> , 2015, 85, 193-198.	11.3	7
27	In situ and online monitoring of the chemical cleaning efficiency by solid-phase fluorescence excitation-emission matrix spectroscopy (SPF-EEM). <i>Journal of Membrane Science</i> , 2020, 611, 118296.	8.2	7
28	Membrane Filtration: Principle and Applications in Water Treatment. <i>Journal of Fiber Science and Technology</i> , 2011, 67, P.81-P.86.	0.0	6
29	Tensile deformation of polytetrafluoroethylene hollow fiber membranes used for water purification. <i>Water Science and Technology</i> , 2014, 70, 1244-1250.	2.5	5
30	Effect of pre-treatment on membrane fouling of PVDF (Polyvinylidene Fluoride) microfiltration membrane with different structures in a pilot-scale drinking water production system. <i>Journal of Water and Environment Technology</i> , 2007, 5, 79-85.	0.7	2
31	Characterization of the surface degraded layer of polymers using an indentation method. <i>Materials Today Communications</i> , 2021, 26, 101873.	1.9	1
32	Application of 1.0-1¼m macroporous hollow fiber membrane for prevention of membrane fouling and enhancement of permeate flux in algae harvesting. <i>Bioresource Technology Reports</i> , 2022, 17, 100895.	2.7	1
33	Harvesting Technology for Microalgae in Biodiesel Production Process with Membranes. <i>Membrane</i> , 2016, 41, 142-149.	0.0	0
34	OS4-16 Finite Element Modeling of Porous Polymer Membrane under Tensile Loading(3D/4D image-based) Tj ETQq0 0 0 rgBT /Overlock The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 58.	0.0	0
35	A Study on Prediction of Turbidity after Flocculation from Floc Images by Deep Learning for Water Purification Process Control. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2022, 58, 271-280.	0.2	0