

Francesco Fornasiero

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41 papers	2,812 citations	20 h-index	43 g-index
43 ext. papers	3,109 ext. citations	10.3 avg, IF	4.81 L-index

#	Paper	IF	Citations
41	Carbon Nanotube Composite Materials for Nanofiltration 2021 , 1021-1055		1
40	Fast Permeation of Small Ions in Carbon Nanotubes. <i>Advanced Science</i> , 2021 , 8, 2001802	13.6	6
39	Structural Anomalies and Electronic Properties of an Ionic Liquid under Nanoscale Confinement. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6150-6155	6.4	2
38	Autonomously Responsive Membranes for Chemical Warfare Protection. <i>Advanced Functional Materials</i> , 2020 , 30, 2000258	15.6	22
37	Large Area, High-Density SWCNT Forests with Remarkably Invariant Structural Properties over a Wide Range of Synthesis Conditions. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 666-666	0	
36	Scalable electric-field-assisted fabrication of vertically aligned carbon nanotube membranes with flow enhancement. <i>Carbon</i> , 2020 , 157, 208-216	10.4	10
35	High-yield growth kinetics and spatial mapping of single-walled carbon nanotube forests at wafer scale. <i>Carbon</i> , 2020 , 159, 236-246	10.4	6
34	Ultra-Permeable Single-Walled Carbon Nanotube Membranes with Exceptional Performance at Scale. <i>Advanced Science</i> , 2020 , 7, 2001670	13.6	12
33	Biomimetic potassium-selective nanopores. <i>Science Advances</i> , 2019 , 5, eaav2568	14.3	74
32	Effect of Enhanced Thermal Stability of Alumina Support Layer on Growth of Vertically Aligned Single-Walled Carbon Nanotubes and Their Application in Nanofiltration Membranes. <i>Nanoscale Research Letters</i> , 2018 , 13, 173	5	8
31	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018 , 12, 11756-11784	16.7	239
30	Quantifying the Hierarchical Order in Self-Aligned Carbon Nanotubes from Atomic to Micrometer Scale. <i>ACS Nano</i> , 2017 , 11, 5405-5416	16.7	28
29	Water vapor transport in carbon nanotube membranes and application in breathable and protective fabrics. <i>Current Opinion in Chemical Engineering</i> , 2017 , 16, 1-8	5.4	28
28	Improving on aquaporins. <i>Science</i> , 2017 , 357, 753	33.3	17
27	Carbon Nanotubes: Ultrabreathable and Protective Membranes with Sub-5 nm Carbon Nanotube Pores (Adv. Mater. 28/2016). <i>Advanced Materials</i> , 2016 , 28, 6020	24	5
26	Ultrabreathable and Protective Membranes with Sub-5 nm Carbon Nanotube Pores. <i>Advanced Materials</i> , 2016 , 28, 5871-7	24	73
25	Salt Solutions in Carbon Nanotubes: The Role of Cation-Interactions. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 7332-7338	3.8	57

24	Hierarchical reinforcement of randomly-oriented carbon nanotube mats by ion irradiation. <i>Carbon</i> , 2016 , 99, 491-501	10.4	4
23	Electrokinetics of scalable, electric-field-assisted fabrication of vertically aligned carbon-nanotube/polymer composites. <i>Journal of Applied Physics</i> , 2015 , 117, 214306	2.5	30
22	Giant Conductance and Anomalous Concentration Dependence in Sub-5 nm Carbon Nanotube Nanochannels. <i>Biophysical Journal</i> , 2015 , 108, 175a	2.9	5
21	Nanofluidic Transport through Isolated Carbon Nanotube Channels: Advances, Controversies, and Challenges. <i>Advanced Materials</i> , 2015 , 27, 5726-37	24	67
20	Fabrication of flexible, aligned carbon nanotube/polymer composite membranes by in-situ polymerization. <i>Journal of Membrane Science</i> , 2014 , 460, 91-98	9.6	84
19	Thermal and Structural Issues of Target Injection into a Laser-Driven Inertial Fusion Energy Chamber. <i>Fusion Science and Technology</i> , 2014 , 66, 343-348	1.1	3
18	Nanofluidic Carbon Nanotube Membranes 2014 , 173-188		2
17	Laser-assisted simultaneous transfer and patterning of vertically aligned carbon nanotube arrays on polymer substrates for flexible devices. <i>ACS Nano</i> , 2012 , 6, 7858-66	16.7	48
16	pH-tunable ion selectivity in carbon nanotube pores. <i>Langmuir</i> , 2010 , 26, 14848-53	4	90
15	Mechanism and kinetics of growth termination in controlled chemical vapor deposition growth of multiwall carbon nanotube arrays. <i>Nano Letters</i> , 2009 , 9, 738-44	11.5	92
14	Nanofluidic Carbon Nanotube Membranes: Applications for Water Purification and Desalination 2009 , 77-93		4
13	Ion exclusion by sub-2-nm carbon nanotube pores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17250-5	11.5	523
12	Mechanism of Ion Exclusion by Sub-2nm Carbon Nanotube Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1106, 1		7
11	Water diffusion through hydrogel membranes. <i>Journal of Membrane Science</i> , 2008 , 320, 423-430	9.6	17
10	Nanofluidics in carbon nanotubes. <i>Nano Today</i> , 2007 , 2, 22-29	17.9	963
9	Multicomponent Diffusion in Highly Asymmetric Systems. An Extended Maxwell-Stefan Model for Starkly Different-Sized, Segment-Accessible Chain Molecules. <i>Macromolecules</i> , 2005 , 38, 1364-1370	5.5	49
8	Glass-transition temperatures for soft-contact-lens materials. Dependence on water content. <i>Polymer</i> , 2005 , 46, 4845-4852	3.9	22
7	Steady-state diffusion of water through soft-contact-lens materials. <i>Biomaterials</i> , 2005 , 26, 5704-16	15.6	39

6	Diffusivity of water through a HEMA-based soft contact lens. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 269-273	3.3	15
5	Sorption and transport of water vapor in thin polymer films at 35 °C. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 103-108	3.6	45
4	Solubilities and diffusivities of water vapor in poly(methylmethacrylate), poly(2-hydroxyethylmethacrylate), poly(N-vinyl-2-pyrrolidone) and poly(acrylonitrile). <i>Polymer</i> , 2003 , 44, 6323-6333	3.9	74
3	Vapor-Sorption Equilibria for 4-Vinylpyridine-Based Copolymer and Cross-Linked Polymer/Alcohol Systems. Effect of Intramolecular Repulsion. <i>Macromolecules</i> , 2000 , 33, 8435-8442	5.5	17
2	Molecular thermodynamics of precipitation. <i>Chemical Engineering and Processing: Process Intensification</i> , 1999 , 38, 463-475	3.7	13
1	Improving cubic EOSS near the critical point by a phase-space cell approximation. <i>AIChE Journal</i> , 1999 , 45, 906-915	3.6	11