

# Hamid Erfan-Niya

## List of Publications by Year in Descending Order

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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.

37  
papers

586  
citations

14  
h-index

23  
g-index

40  
ext. papers

794  
ext. citations

4.5  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
37	Molecular insight into water desalination through functionalized graphenylene nanosheet membranes. <i>Computational Materials Science</i> , <b>2022</b> , 203, 111126	3.2	2
36	Efficient water desalination through mono and bilayer carbon nitride nanosheet membranes: Insights from molecular dynamics simulation. <i>Journal of Molecular Graphics and Modelling</i> , <b>2022</b> , 110, 108059	2.8	3
35	The performance of a C2N membrane for heavy metal ions removal from water under external electric field. <i>Separation and Purification Technology</i> , <b>2022</b> , 289, 120770	8.3	0
34	Efficient separation of He/CH mixture by functionalized graphenylene membranes: A theoretical study.. <i>Journal of Molecular Graphics and Modelling</i> , <b>2022</b> , 115, 108211	2.8	0
33	Efficient Removal of Heavy Metals from Aqueous Solutions through Functionalized EGraphyne-1 Membranes under External Uniform Electric Fields: Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 12254-12263	3.4	1
32	Atomistic understanding of gas separation through nanoporous DDR-type zeolite membrane. <i>Chemical Physics</i> , <b>2021</b> , 540, 110985	2.3	5
31	Graphene Oxide and Reduced Graphene Oxide as Nanofillers in Membrane Separation. <i>Springer Series on Polymer and Composite Materials</i> , <b>2021</b> , 113-144	0.9	3
30	Hexagonal Boron Nitride (h-BN) in Solutes Separation. <i>Springer Series on Polymer and Composite Materials</i> , <b>2021</b> , 163-191	0.9	2
29	The removal of nitrogen monoxide from polluted air using CHA- and DDR-type zeolite membranes: Insights from molecular simulations. <i>Materials Today Communications</i> , <b>2021</b> , 28, 102651	2.5	2
28	Atomistic understanding of functionalized Egraphyne-1 nanosheet membranes for water desalination. <i>Journal of Membrane Science</i> , <b>2020</b> , 604, 118079	9.6	15
27	Separation of noble gases using CHA-type zeolite membrane: insights from molecular dynamics simulation. <i>Chemical Papers</i> , <b>2020</b> , 74, 3057-3065	1.9	10
26	Methotrexate-conjugated chitosan-grafted pH- and thermo-responsive magnetic nanoparticles for targeted therapy of ovarian cancer. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 154, 1175-1184	7.9	28
25	Molecular insights into water desalination performance of pristine graphdiyne nanosheet membrane. <i>Journal of Molecular Graphics and Modelling</i> , <b>2020</b> , 101, 107729	2.8	8
24	Water desalination across functionalized silicon carbide nanosheet membranes: insights from molecular simulations. <i>Structural Chemistry</i> , <b>2020</b> , 31, 293-303	1.8	10
23	Dual thermo-and pH-sensitive injectable hydrogels of chitosan/(poly(N-isopropylacrylamide-co-itaconic acid)) for doxorubicin delivery in breast cancer. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 128, 957-964	7.9	66
22	Molecular dynamics study for CH <sub>4</sub> /H <sub>2</sub> S separation through functionalized nanoporous graphyne membrane. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 2043-2048	1.4	2
21	Molecular insights into effective water desalination through functionalized nanoporous boron nitride nanosheet membranes. <i>Applied Surface Science</i> , <b>2019</b> , 471, 921-928	6.7	29

20	Water desalination through fluorine-functionalized nanoporous graphene oxide membranes. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 223, 277-286	4.4	20
19	Influence of graphene oxide nanosheets on the stability and thermal conductivity of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 581-595	4.1	14
18	Improving the performance of water desalination through ultra-permeable functionalized nanoporous graphene oxide membrane. <i>Applied Surface Science</i> , <b>2018</b> , 427, 1000-1008	6.7	44
17	Fluorine-functionalized nanoporous graphene as an effective membrane for water desalination. <i>Structural Chemistry</i> , <b>2018</b> , 29, 1845-1852	1.8	17
16	Swelling and auramine-O adsorption of carboxymethyl cellulose grafted poly(methyl methacrylate)/Cloisite 30B nanocomposite hydrogels. <i>Iranian Polymer Journal (English Edition)</i> , <b>2018</b> , 27, 807-818	2.3	9
15	Thermo-sensitive chitosan copolymer-gold hybrid nanoparticles as a nanocarrier for delivery of erlotinib. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 106, 266-276	7.9	45
14	The role of hydrogen bonding in interaction energy at the interface of conductive polymers and modified graphene-based nanosheets: A reactive molecular dynamics study. <i>Computational Materials Science</i> , <b>2018</b> , 155, 499-523	3.2	5
13	Chitosan-based multifunctional nanomedicines and theranostics for targeted therapy of cancer. <i>Medicinal Research Reviews</i> , <b>2018</b> , 38, 2110-2136	14.4	61
12	Folate-conjugated thermosensitive O-maleoyl modified chitosan micellar nanoparticles for targeted delivery of erlotinib. <i>Carbohydrate Polymers</i> , <b>2017</b> , 172, 130-141	10.3	47
11	Thermoresponsive graphene oxide - starch micro/nanohydrogel composite as biocompatible drug delivery system. <i>BiolImpacts</i> , <b>2017</b> , 7, 167-175	3.5	17
10	Thermophysical properties of paraffin-based electrically insulating nanofluids containing modified graphene oxide. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 2642-2660	4.3	7
9	Stimuli-responsive chitosan-based nanocarriers for cancer therapy. <i>BiolImpacts</i> , <b>2017</b> , 7, 269-277	3.5	37
8	Molecular insights into structural properties around the threshold of gas hydrate formation. <i>Petroleum Science and Technology</i> , <b>2016</b> , 34, 1964-1971	1.4	3
7	Effect of alkyl functionalization on thermal conductivity of graphene oxide nanosheets: a molecular dynamics study. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6824-6835	4.3	17
6	Molecular dynamics simulation study on the structure II clathrate-hydrates of methane + cyclic organic compounds. <i>Petroleum Science and Technology</i> , <b>2016</b> , 34, 1226-1232	1.4	3
5	Molecular dynamics simulation of structure H clathrate-hydrates of binary guest molecules. <i>Journal of Natural Gas Chemistry</i> , <b>2011</b> , 20, 577-584		7
4	Computational study on the structure II clathrate hydrate of methane and large guest molecules. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2011</b> , 70, 227-239		14
3	Molecular Dynamics Simulation of Structure II Clathrate Hydrates of Xenon and Large Hydrocarbon Guest Molecules. <i>Journal of Cluster Science</i> , <b>2011</b> , 22, 11-30	3	4

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| 2 | Molecular dynamics study on the structure I clathrate-hydrate of methane + ethane mixture. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 523-531                        | 10.6 | 25 |
| 1 | Theoretical Study of CO <sub>2</sub> /N <sub>2</sub> Gas Mixture Separation through a High-Silica PWN-type Zeolite Membrane. <i>Industrial &amp; Engineering Chemistry Research</i> , | 3.9  | 2  |