

# Sadiye Velioglu

## List of Publications by Year in descending order

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29  
papers

1,055  
citations

566801

15  
h-index

500791

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g-index

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29  
docs citations

29  
times ranked

1365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of H <sub>2</sub> /CO <sub>2</sub> Separation Performance of Inorganic Porous Adsorbents via Molecular Simulations. International Journal of Environment and Geoinformatics, 2022, 9, 91-96.	0.5	0
2	Desalination Potential of Aquaporin-Inspired Functionalization of Carbon Nanotubes: Bridging Between Simulation and Experiment. ACS Applied Materials & Interfaces, 2022, 14, 28174-28185.	4.0	13
3	Molecular dynamics investigation of membrane fouling in organic solvents. Journal of Membrane Science, 2021, 632, 119329.	4.1	13
4	Investigation of Surfactant-Membrane Interaction Using Molecular Dynamics Simulation with Umbrella Sampling. ACS ES&T Engineering, 2021, 1, 1470-1480.	3.7	15
5	Carbon nanotubes integrated into polyamide membranes by support pre-filtration improve the desalination performance. Carbon, 2021, 185, 546-557.	5.4	14
6	Mechanistic understanding of the adsorption of natural organic matter by heated aluminum oxide particles (HAOPs) via molecular dynamics simulation. Journal of Membrane Science, 2020, 598, 117651.	4.1	14
7	Revealing the effect of structure curations on the simulated CO <sub>2</sub> separation performances of MOFs. Materials Advances, 2020, 1, 341-353.	2.6	17
8	Can crosslinking improve both CO <sub>2</sub> permeability and plasticization resistance in 6FDA-pBAPS/DABA copolyimides?. Polymer, 2020, 205, 122789.	1.8	12
9	Metallicity-Dependent Ultrafast Water Transport in Carbon Nanotubes. Small, 2020, 16, e1907575.	5.2	23
10	Tunable affinity separation enables ultrafast solvent permeation through layered double hydroxide membranes. Journal of Membrane Science, 2019, 591, 117318.	4.1	23
11	In Silico Design of Metal Organic Frameworks with Enhanced CO <sub>2</sub> Separation Performances: Role of Metal Sites. Journal of Physical Chemistry C, 2019, 123, 28255-28265.	1.5	10
12	Simulation of H <sub>2</sub> /CH <sub>4</sub> mixture permeation through MOF membranes using non-equilibrium molecular dynamics. Journal of Materials Chemistry A, 2019, 7, 2301-2314.	5.2	32
13	Effect of surfactant hydrophobicity and charge type on membrane distillation performance. Journal of Membrane Science, 2019, 587, 117168.	4.1	34
14	Large-Scale Computational Screening of Metal Organic Framework (MOF) Membranes and MOF-Based Polymer Membranes for H <sub>2</sub> /N <sub>2</sub> Separations. ACS Sustainable Chemistry and Engineering, 2019, 7, 9525-9536.	3.2	65
15	An extensive comparative analysis of two MOF databases: high-throughput screening of computation-ready MOFs for CH <sub>4</sub> and H <sub>2</sub> adsorption. Journal of Materials Chemistry A, 2019, 7, 9593-9608.	5.2	87
16	Reply to Comment on "Database for CO <sub>2</sub> Separation Performances of MOFs Based on Computational Materials Screening". ACS Applied Materials & Interfaces, 2019, 11, 16266-16271.	4.0	4
17	Understanding membrane pore-wetting in the membrane distillation of oil emulsions via molecular dynamics simulations. Journal of Membrane Science, 2018, 551, 76-84.	4.1	52
18	Database for CO <sub>2</sub> Separation Performances of MOFs Based on Computational Materials Screening. ACS Applied Materials & Interfaces, 2018, 10, 17257-17268.	4.0	129

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19	An atomistic insight on CO <sub>2</sub> plasticization resistance of thermally rearranged 6FDA-bisAPAF. <i>Journal of Membrane Science</i> , 2018, 556, 23-33.	4.1	19
20	High-Throughput Screening of MOF Adsorbents and Membranes for H <sub>2</sub> Purification and CO <sub>2</sub> Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33693-33706.	4.0	133
21	Understanding membrane fouling by oil-in-water emulsion via experiments and molecular dynamics simulations. <i>Journal of Membrane Science</i> , 2018, 566, 140-150.	4.1	58
22	Novel co-polyimides containing pBAPS (bis [4-(4-aminophenoxy) phenyl] sulfone) for CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2017, 178, 90-104.	3.9	8
23	A novel energy-efficient concurrent desalination and boron removal (CDBR) process. <i>Desalination</i> , 2017, 423, 79-94.	4.0	10
24	Towards the generalization of membrane structure-property relationship of polyimides and copolyimides: A group contribution study. <i>Journal of Membrane Science</i> , 2017, 543, 233-254.	4.1	12
25	Thermochromic Ionogel: A New Class of Stimuli Responsive Materials with Super Cyclic Stability for Solar Modulation. <i>Chemistry of Materials</i> , 2017, 29, 6947-6955.	3.2	88
26	Propylene/propane plasticization in polyimide membranes. <i>Journal of Membrane Science</i> , 2016, 501, 179-190.	4.1	41
27	Prediction of gas permeability coefficients of copolyimides by group contribution methods. <i>Journal of Membrane Science</i> , 2015, 480, 47-63.	4.1	15
28	Solvation of a Cellulose Microfibril in Imidazolium Acetate Ionic Liquids: Effect of a Cosolvent. <i>Journal of Physical Chemistry B</i> , 2014, 118, 141211094045002.	1.2	39
29	Investigation of CO <sub>2</sub> -induced plasticization in fluorinated polyimide membranes via molecular simulation. <i>Journal of Membrane Science</i> , 2012, 417-418, 217-227.	4.1	75