Vladimir V Volkov

List of Publications by Year
in descending order

41	1,926	331642 21	289230 40
papers	citations	h-index	g-index

42	42	42	2723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fabrication of ultrafiltration membranes from non-toxic solvent dimethylsulfoxide: Benchmarking of commercially available acrylonitrile co-polymers. Journal of Environmental Chemical Engineering, 2022, 10, 107061.	6.7	14
2	High free volume polymers for pervaporation. Current Opinion in Chemical Engineering, 2022, 36, 100788.	7.8	9
3	Polymeric Membranes for Oil-Water Separation: A Review. Polymers, 2022, 14, 980.	4.5	70
4	Influence of Draw Ratio and Take-Up Velocity on Properties of Ultrafiltration Hollow Fiber Membranes from Polyethersulfone. Fibers, 2022, 10, 29.	4.0	5
5	Formation of Polysulfone Hollow Fiber Membranes Using the Systems with Lower Critical Solution Temperature. Fibers, 2021, 9, 28.	4.0	11
6	Sorptionâ€assisted thermopervaporation method for organics recovery from ABE fermentation broth. Journal of Chemical Technology and Biotechnology, 2020, 95, 40-51.	3.2	17
7	CO2 separation from humidified ternary gas mixtures using a polydecylmethylsiloxane composite membrane. Fuel Processing Technology, 2020, 210, 106550.	7.2	11
8	Aging of Thin-Film Composite Membranes Based on Crosslinked PTMSP/PEI Loaded with Highly Porous Carbon Nanoparticles of Infrared Pyrolyzed Polyacrylonitrile. Membranes, 2020, 10, 419.	3.0	7
9	Gas Separation Membranes Based on Germanium Containing Polyalkylenesiloxane. Key Engineering Materials, 2020, 869, 45-50.	0.4	0
10	High Selective Composite Polyalkylmethylsiloxane Membranes for Pervaporative Removal of MTBE from Water: Effect of Polymer Side-chain. Polymers, 2020, 12, 1213.	4.5	10
11	Synergistic enhancement of gas selectivity in thin film composite membranes of PIM-1. Journal of Materials Chemistry A, 2019, 7, 6417-6430.	10.3	55
12	Effect of Temperature Exposition of Casting Solution on Properties of Polysulfone Hollow Fiber Membranes. Fibers, 2019, 7, 110.	4.0	14
13	Improvement of MWCO determination by using branched PEGs and MALDI method. Separation and Purification Technology, 2019, 211, 108-116.	7.9	7
14	CO2 stripping from ionic liquid at elevated pressures in gas-liquid membrane contactor. International Journal of Greenhouse Gas Control, 2018, 71, 293-302.	4.6	31
15	Influence of feed flow rate, temperature and feed concentration on concentration polarization effects during separation of water-methyl acetate solutions with high permeable hydrophobic pervaporation PDMS membrane. Journal of Membrane Science, 2018, 564, 1-9.	8.2	36
16	Development of high flux ultrafiltration polyphenylsulfone membranes applying the systems with upper and lower critical solution temperatures: Effect of polyethylene glycol molecular weight and coagulation bath temperature. Journal of Membrane Science, 2018, 565, 266-280.	8.2	41
17	Hydrophilization of polysulfone hollow fiber membranes via addition of polyvinylpyrrolidone to the bore fluid. Journal of Membrane Science, 2017, 524, 537-549.	8.2	50
18	Polysulfone porous hollow fiber membranes for ethylene-ethane separation in gas-liquid membrane contactor. Separation and Purification Technology, 2017, 183, 162-172.	7.9	53

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19	Development of Polysulfone Hollow Fiber Porous Supports for High Flux Composite Membranes: Air Plasma and Piranha Etching. Fibers, 2017, 5, 6.	4.0	21
20	High-permeance crosslinked PTMSP thin-film composite membranes as supports for CO2 selective layer formation. Green Energy and Environment, 2016, 1, 235-245.	8.7	39
21	A new cycloadduct based on quadricyclane and perfluorocyclohexene: synthesis, metathesis polymerization and gas-transport properties of the obtained polymer. Mendeleev Communications, 2016, 26, 124-126.	1.6	16
22	Removal of trichloroethylene from water in the catalytic membrane reactor. Catalysis Today, 2016, 268, 150-155.	4.4	3
23	Synthesis and Gas-Transport Properties of Metathesis Polytricyclononenes Bearing Three Me₃ Si Groups per Monomer Unit. Macromolecular Chemistry and Physics, 2016, 217, 1966-1976.	2.2	15
24	Study of glassy polymers fractional accessible volume (FAV) by extended method of hydrostatic weighing: Effect of porous structure on liquid transport. Reactive and Functional Polymers, 2015, 86, 269-281.	4.1	58
25	Reclaiming of degraded MEA solutions by electrodialysis: Results of ED pilot campaign at post-combustion CO 2 capture pilot plant. International Journal of Greenhouse Gas Control, 2015, 42, 593-601.	4.6	27
26	Influence of parameters of molecular mobility on formation of structure in ferroelectric vinylidene fluoride copolymers. Journal of Applied Physics, 2015, 117, .	2.5	13
27	Heat Stable Salts (HSS) Removal by Electrodialysis: Reclaiming of MEA Used in Post-combustion CO2-Capture. Energy Procedia, 2014, 63, 6349-6356.	1.8	21
28	CO₂ Solubility in Biodegradable Hydroxylammonium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2014, 59, 702-708.	1.9	15
29	Application of negative retention in organic solvent nanofiltration for solutes fractionation. Separation and Purification Technology, 2014, 124, 43-48.	7.9	35
30	Novel PTMSP-based membranes containing elastomeric fillers: Enhanced 1-butanol/water pervaporation selectivity and permeability. Journal of Membrane Science, 2014, 466, 322-330.	8.2	62
31	Solubility of CO₂ and CH₄ in Ionic Liquids: Ideal CO₂/CH₄ Selectivity. Industrial & Engineering Chemistry Research, 2014, 53, 15427-15435.	3.7	109
32	Reclaiming of Monoethanolamine (MEA) Used in Post-Combustion CO2-capture with Electrodialysis. Energy Procedia, 2014, 51, 148-153.	1.8	18
33	Separation of Mineral Acid Solutions by Membrane Distillation and Thermopervaporation through Porous and Nonporous Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 8856-8863.	3.7	26
34	Liquid permeation through PTMSP: One polymer for two different membrane applications. Journal of Membrane Science, 2013, 440, 98-107.	8.2	30
35	Solvent nanofiltration through high permeability glassy polymers: Effect of polymer and solute nature. Journal of Membrane Science, 2012, 423-424, 65-72.	8.2	116
36	Estimation of pore size distribution in MCM-41-type silica using a simple desorption technique. Adsorption, 2011, 17, 911-918.	3.0	25

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37	High permeable PTMSP/PAN composite membranes for solvent nanofiltration. Journal of Membrane Science, 2009, 333, 88-93.	8.2	95
38	ATSAS2.1, a program package for small-angle scattering data analysis. Journal of Applied Crystallography, 2006, 39, 277-286.	4.5	557
39	In-situ application of catalytic phase to commercial membrane contactor for removal of dissolved oxygen from water. Desalination, 2006, 199, 424-425.	8.2	12
40	Aggregation state and mesophase structure of comb-shaped polymers with fluorocarbon side groups. Polymer, 1992, 33, 1316-1320.	3.8	116
41	Free Volume Structure and Transport Properties of Glassy Polymersâ€"Materials for Separating Membranes. Polymer Journal, 1991, 23, 457-466.	2.7	56