StanisÅ‚aw Koter

List of Publications by Year
in descending order

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79	1,376	361296	377752
papers	citations	20 h-index	34 g-index

80	80	80	1321
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative investigations of ion-exchange membranes. Journal of Membrane Science, 1999, 153, 83-90.	4.1	98
2	Highly Efficient Hydrophobic Titania Ceramic Membranes for Water Desalination. ACS Applied Materials & Interfaces, 2014, 6, 14223-14230.	4.0	95
3	Irreversible thermodynamics of transport across charged membranes. Journal of Membrane Science, 1985, 25, 153-170.	4.1	69
4	Ions and water transport across charged nafion membranes. Irreversible thermodynamics approach. Desalination, 1984, 51, 3-17.	4.0	63
5	Membrane distillation properties of TiO‹sub›2‹/sub›ceramic membranes modified by perfluoroalkylsilanes. Desalination and Water Treatment, 2013, 51, 1352-1361.	1.0	61
6	Efficiency of grafting of Al2O3, TiO2 and ZrO2 powders by perfluoroalkylsilanes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 420, 64-73.	2.3	58
7	Transport of simple electrolyte solutions through ion-exchange membranesâ€"the capillary model. Journal of Membrane Science, 2002, 206, 201-215.	4.1	53
8	A review - The development of hollow fibre membranes for gas separation processes. International Journal of Greenhouse Gas Control, 2021, 104, 103195.	2.3	41
9	Irreversible thermodynamics of transport across charged membranes. Journal of Membrane Science, 1987, 30, 125-140.	4.1	40
10	Concentration of anthocyanins by the membrane filtration. Separation and Purification Technology, 2007, 57, 418-424.	3.9	39
11	A review of the innovative gas separation membrane bioreactor with mechanisms for integrated production and purification of biohydrogen. Bioresource Technology, 2018, 270, 643-655.	4.8	33
12	Determination of the parameters of the Spieglerâ€"Kedemâ€"Katchalsky model for nanofiltration of single electrolyte solutions. Desalination, 2006, 198, 335-345.	4.0	32
13	The equivalent pore radius of charged membranes from electroosmotic flow. Journal of Membrane Science, 2000, 166, 127-135.	4.1	31
14	A new model for characterization of bipolar membrane electrodialysis of brine. Desalination, 2006, 198, 111-123.	4.0	28
15	Application of membrane techniques in a water softening process. Desalination, 2002, 145, 321-327.	4.0	26
16	Modelling of nanofiltration in softening water. Desalination, 2004, 162, 137-151.	4.0	25
17	New insights into the ideal adsorbed solution theory. Physical Chemistry Chemical Physics, 2015, 17, 7232-7247.	1.3	25
18	Physicochemical properties and pervaporation performance of dense membranes based on cellulose acetate propionate (CAP) and containing polymerizable ionic liquid (PIL). Journal of Membrane Science, 2017, 544, 243-251.	4.1	25

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19	Modeling of the cadmium transport through a bulk liquid membrane. Separation and Purification Technology, 2013, 107, 135-143.	3.9	24
20	Modeling of transport and separation in a thermopervaporation process. Journal of Membrane Science, 2015, 480, 129-138.	4.1	23
21	Transport properties of cation-exchange membranes in aqueous and methanolic solutions. Diffusion and osmosis. Journal of Membrane Science, 1993, 78, 147-153.	4.1	20
22	Electric transport of sulfuric acid through anion-exchange membranes in aqueous solutions. Journal of Membrane Science, 2008, 318, 467-476.	4.1	20
23	Batch electrodialysis of ammonium nitrate and sulfate solutions. Journal of Membrane Science, 2015, 496, 219-228.	4.1	20
24	Possibilities for the biologically-assisted utilization of CO2-rich gaseous waste streams generated during membrane technological separation of biohydrogen. Journal of CO2 Utilization, 2020, 36, 231-243.	3.3	20
25	Characteristics of Ion-Exchange Membranes for Electrodialysis on the Basis of Irreversible Thermodynamics. Journal of Non-Equilibrium Thermodynamics, 1990, 15, .	2.4	19
26	Transport number of counterions in ion-exchange membranes. Separation and Purification Technology, 2001, 22-23, 643-654.	3.9	18
27	Separation of weak and strong acids by electro-electrodialysisâ€”Experiment and theory. Separation and Purification Technology, 2008, 60, 251-258.	3.9	18
28	Irreversible thermodynamics of transport across charged membranes. Part V. Isothermal transport through anion-exchange membranes and macroscopic resistance coefficients. Journal of Membrane Science, 1995, 106, 25-38.	4.1	17
29	Revisiting Wetting, Freezing, and Evaporation Mechanisms of Water on Copper. ACS Applied Materials & Interfaces, 2021, 13, 37893-37903.	4.0	17
30	Two-dimensional gas and vacancy solution approaches in the thermodynamic description of adsorption equilibrium. Journal of Colloid and Interface Science, 2005, 282, 335-339.	5.0	16
31	Modeling of weak acid production by the EDB method. Separation and Purification Technology, 2007, 57, 406-412.	3.9	16
32	Modeling the electric transport of sulfuric and phosphoric acids through anion-exchange membranes. Separation and Purification Technology, 2010, 73, 219-229.	3.9	15
33	Irreversible thermodynamics of transport across charged membranes. Part VI. Frictional interactions and coupling effects in transport of acid through anion exchange membranes. Journal of Membrane Science, 1995, 106, 39-48.	4.1	14
34	The Kedem-Katchalsky equations and the sieve mechanism of membrane transport. Journal of Membrane Science, 2005, 246, 109-111.	4.1	12
35	Importance of the cross-effects in the transport through ion-exchange membranes. Journal of Membrane Science, 2007, 297, 226-235.	4.1	11
36	Correlation between the catalytic and electrocatalytic properties of nitrogen-doped carbon nanoonions and the polarity of the carbon surface: Experimental and theoretical investigations. Carbon, 2019, 151, 120-129.	5.4	11

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37	Are nanohedgehogs thirsty? Toward new superhydrophobic and anti-icing carbon nanohorn-polymer hybrid surfaces. Chemical Engineering Journal, 2022, 446, 137126.	6.6	11
38	Influence of the layer fixed charge distribution on the performance of an ion-exchange membrane. Journal of Membrane Science, 1995, 108, 177-183.	4.1	10
39	Applicability of molecular simulations for modelling the adsorption of the greenhouse gas CF4on carbons. Journal of Physics Condensed Matter, 2013, 25, 015004.	0.7	10
40	Modeling the transport of sulfuric acid and its sulfates (MgSO4, ZnSO4, Na2SO4) through an anion-exchange membrane. Desalination, 2014, 342, 75-84.	4.0	10
41	Kinetics and Mechanism of the Reduction of merâ€Trisâ€picolinatoruthenium(III) by <scp>L</scp>â€Ascorbic Acid. European Journal of Inorganic Chemistry, 2014, 2014, 2529-2535.	1.0	10
42	Analysis of Membrane Transport Equations for Reverse Electrodialysis (RED) Using Irreversible Thermodynamics. International Journal of Molecular Sciences, 2020, 21, 6325.	1.8	10
43	Comparative Evaluation of CO2 Fixation of Microalgae Strains at Various CO2 Aeration Conditions. Waste and Biomass Valorization, 2021, 12, 2999-3007.	1.8	10
44	Ion-Exchange Membranes for Electrodialysis A Patents Review. Recent Patents on Chemical Engineering, 2011, 4, 141-160.	0.5	10
45	Title is missing!. Angewandte Makromolekulare Chemie, 1980, 86, 157-170.	0.3	9
46	Membrane-assisted removal of hydrocarbons from contaminated soilsâ€"laboratory test results. Desalination, 2009, 241, 218-226.	4.0	9
47	Modeling of diffusive transport of benzoic acid through a liquid membrane. Chemical Papers, 2011, 65, .	1.0	9
48	Mechanistic aspects of water adsorption-desorption in porphyrin containing MOFs. Microporous and Mesoporous Materials, 2019, 290, 109649.	2.2	9
49	Irreversible thermodynamics of transport across charged membranes. Journal of Membrane Science, 1987, 30, 141-152.	4.1	7
50	Cellulose Acetate Membranes Modification by Aminosilane Grafting in Supercritical Carbon Dioxide towards Antibiofilm Properties. Membranes, 2022, 12, 33.	1.4	7
51	Current Efficiency and Transport Phenomena in Systems with Charged Membranes. Separation Science and Technology, 1989, 24, 1337-1354.	1.3	6
52	Determination of the electrolyte and osmotic permeability coefficients by conductometric and emf methods. Desalination, 2004, 162, 373-381.	4.0	6
53	Mechanistic Complications Caused by Redox Equilibration: Ascorbate Reduction of a Ruthenium(III) Complex under Low Driving Force Conditions. European Journal of Inorganic Chemistry, 2016, 2016, 5380-5386.	1.0	6
54	Opening the internal structure for transport of ions: improvement of the structural and chemical properties of single-walled carbon nanohorns for supercapacitor electrodes. RSC Advances, 2020, 10, 38357-38368.	1.7	6

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55	Liquid phase adsorption induced nanosizing of graphene oxide. Carbon, 2021, 183, 948-957.	5.4	6
56	Time-resolved pressure-induced electric potential in nanoporous membranes: Measurement and mechanistic interpretation. Journal of Membrane Science, 2022, 653, 120556.	4.1	6
57	Transport of electrolytes across cation-exchange membranes.. Journal of Membrane Science, 1993, 78, 155-162.	4.1	5
58	CO2 - Reinforced nanoporous carbon potential energy field during CO2/CH4 mixture adsorption. A comprehensive volumetric, in-situ IR, and thermodynamic insight. Carbon, 2017, 122, 185-193.	5.4	5
59	Modeling the electric transport of HCl and H3PO4mixture through anion-exchange membranes. Membrane Water Treatment, 2011, 2, 187-205.	0.5	5
60	Linking the Defective Structure of Boron-Doped Carbon Nano-Onions with Their Catalytic Properties: Experimental and Theoretical Studies. ACS Applied Materials & Interfaces, 2021, 13, 51628-51642.	4.0	5
61	Theoretical analysis of steady states for ester hydrolysis in an enzymatic membrane reactor with product retention. Desalination, 2009, 246, 545-555.	4.0	4
62	Concentration of Sodium Hydroxide Solutions by Electrodialysis. Separation Science and Technology, 2012, 47, 1405-1412.	1.3	4
63	Interactions of Hydrated Species in Transport Across Membranes. Zeitschrift Fur Physikalische Chemie, 1986, 148, 247-253.	1.4	3
64	Transport of electrolytes through charged membranes â€" on the relations between the independent transport coefficients. Desalination, 2009, 241, 75-80.	4.0	3
65	Formation of a promazine radical and promazine 5â€oxide in the reaction of promazine with hydrogen peroxide: Mechanistic insight from kinetic and EPR measurements. International Journal of Chemical Kinetics, 2010, 42, 1-9.	1.0	3
66	Feasibility study of polyetherimide membrane for enrichment of carbon dioxide from synthetic biohydrogen mixture and subsequent utilization scenario using microalgae. International Journal of Energy Research, 2021, 45, 8327-8334.	2.2	3
67	Modelling of lead ions transport through bulk liquid membrane. , 0, 181, 213-220.		3
68	Theoretical analysis of the performance of composite membrane consisting of the catalytic and nanofiltration layers. Journal of Membrane Science, 2006, 280, 65-72.	4.1	2
69	The oxidative degradation and Câ€"C coupling reaction of dibenzoazepine derivatives by peroxydisulfate ion and sulfate radical in aqueous media. Reaction Kinetics, Mechanisms and Catalysis, 2012, 107, 1-17.	0.8	2
70	Sorption and Magnetic Properties of Oxalato-Based Trimetallic Open Framework Stabilized by Charge-Assisted Hydrogen Bonds. International Journal of Molecular Sciences, 2022, 23, 1556.	1.8	2
71	Conversion of Osmotic into Mechanical Energy in Systems with Charged Membranes. Journal of Non-Equilibrium Thermodynamics, 1990, 15, 1-10.	2.4	1
72	Diffusive Transport of Benzoic Acid through an Agitated Bulk Liquid Membrane. Separation Science and Technology, 2011, 46, 2465-2472.	1.3	1

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73	Recent Developments in the Electrophoretic Deposition of Carbon Nanomaterials. Engineering Materials, 2021, , 113-137.	0.3	1
74	Ion-Exchange Membranes for Electrodialysis â€“ A Patents Review. Recent Patents on Chemical Engineering, 2011, 4, 141-160.	0.5	1
75	Prediction of retention of uncharged solutes in nanofiltration by means of molecular descriptors. Membrane Water Treatment, 2010, 1, 181-192.	0.5	0
76	Electrodialytic removal of H2SO4 from its aqueous mixture with Na2SO4. Copernican Letters, 0, 1, 90.	0.0	0
77	Chronopotentiometric Characterization of Electrodialysis Module. Architecture Civil Engineering Environment, 2016, 9, 129-133.	0.6	0
78	Filtration properties of membranes with active graphene oxide layer. , 0, 64, 350-358.		0
79	Reverse osmosis of ammonium and sodium salt solutions and its model description. , 0, 128, 155-169.		0