

Stanisław Koter

List of Publications by Year in descending order

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79
papers

1,376
citations

361413
20
h-index

377865
34
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80
all docs

80
docs citations

80
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Sorption and Magnetic Properties of Oxalato-Based Trimetallic Open Framework Stabilized by Charge-Assisted Hydrogen Bonds. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1556.	4.1	2
2	Cellulose Acetate Membranes Modification by Aminosilane Grafting in Supercritical Carbon Dioxide towards Antibiofilm Properties. <i>Membranes</i> , 2022, 12, 33.	3.0	7
3	Time-resolved pressure-induced electric potential in nanoporous membranes: Measurement and mechanistic interpretation. <i>Journal of Membrane Science</i> , 2022, 653, 120556.	8.2	6
4	Are nanohedgehogs thirsty? Toward new superhydrophobic and anti-icing carbon nanohorn-polymer hybrid surfaces. <i>Chemical Engineering Journal</i> , 2022, 446, 137126.	12.7	11
5	Feasibility study of polyetherimide membrane for enrichment of carbon dioxide from synthetic biohydrogen mixture and subsequent utilization scenario using microalgae. <i>International Journal of Energy Research</i> , 2021, 45, 8327-8334.	4.5	3
6	A review - The development of hollow fibre membranes for gas separation processes. <i>International Journal of Greenhouse Gas Control</i> , 2021, 104, 103195.	4.6	41
7	Comparative Evaluation of CO ₂ Fixation of Microalgae Strains at Various CO ₂ Aeration Conditions. <i>Waste and Biomass Valorization</i> , 2021, 12, 2999-3007.	3.4	10
8	Recent Developments in the Electrophoretic Deposition of Carbon Nanomaterials. <i>Engineering Materials</i> , 2021, , 113-137.	0.6	1
9	Revisiting Wetting, Freezing, and Evaporation Mechanisms of Water on Copper. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37893-37903.	8.0	17
10	Liquid phase adsorption induced nanosizing of graphene oxide. <i>Carbon</i> , 2021, 183, 948-957.	10.3	6
11	Linking the Defective Structure of Boron-Doped Carbon Nano-Onions with Their Catalytic Properties: Experimental and Theoretical Studies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51628-51642.	8.0	5
12	Possibilities for the biologically-assisted utilization of CO ₂ -rich gaseous waste streams generated during membrane technological separation of biohydrogen. <i>Journal of CO₂ Utilization</i> , 2020, 36, 231-243.	6.8	20
13	Opening the internal structure for transport of ions: improvement of the structural and chemical properties of single-walled carbon nanohorns for supercapacitor electrodes. <i>RSC Advances</i> , 2020, 10, 38357-38368.	3.6	6
14	Analysis of Membrane Transport Equations for Reverse Electrodialysis (RED) Using Irreversible Thermodynamics. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6325.	4.1	10
15	Mechanistic aspects of water adsorption-desorption in porphyrin containing MOFs. <i>Microporous and Mesoporous Materials</i> , 2019, 290, 109649.	4.4	9
16	Correlation between the catalytic and electrocatalytic properties of nitrogen-doped carbon nanooxions and the polarity of the carbon surface: Experimental and theoretical investigations. <i>Carbon</i> , 2019, 151, 120-129.	10.3	11
17	A review of the innovative gas separation membrane bioreactor with mechanisms for integrated production and purification of biohydrogen. <i>Bioresource Technology</i> , 2018, 270, 643-655.	9.6	33
18	Physicochemical properties and pervaporation performance of dense membranes based on cellulose acetate propionate (CAP) and containing polymerizable ionic liquid (PIL). <i>Journal of Membrane Science</i> , 2017, 544, 243-251.	8.2	25

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19	CO ₂ - Reinforced nanoporous carbon potential energy field during CO ₂ /CH ₄ mixture adsorption. A comprehensive volumetric, in-situ IR, and thermodynamic insight. Carbon, 2017, 122, 185-193.	10.3	5
20	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.	2.0	6
21	Chronopotentiometric Characterization of Electrodialysis Module. Architecture Civil Engineering Environment, 2016, 9, 129-133.	0.6	0
22	Modeling of transport and separation in a thermopervaporation process. Journal of Membrane Science, 2015, 480, 129-138.	8.2	23
23	New insights into the ideal adsorbed solution theory. Physical Chemistry Chemical Physics, 2015, 17, 7232-7247.	2.8	25
24	Batch electrodialysis of ammonium nitrate and sulfate solutions. Journal of Membrane Science, 2015, 496, 219-228.	8.2	20
25	Modeling the transport of sulfuric acid and its sulfates (MgSO ₄ , ZnSO ₄ , Na ₂ SO ₄) through an anion-exchange membrane. Desalination, 2014, 342, 75-84.	8.2	10
26	Kinetics and Mechanism of the Reduction of <i>trans</i> -Tris(4-picolinato)ruthenium(III) by Ascorbic Acid. European Journal of Inorganic Chemistry, 2014, 2014, 2529-2535.	2.0	10
27	Highly Efficient Hydrophobic Titania Ceramic Membranes for Water Desalination. ACS Applied Materials & Interfaces, 2014, 6, 14223-14230.	8.0	95
28	Efficiency of grafting of Al ₂ O ₃ , TiO ₂ and ZrO ₂ powders by perfluoroalkylsilanes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 420, 64-73.	4.7	58
29	Membrane distillation properties of TiO ₂ ceramic membranes modified by perfluoroalkylsilanes. Desalination and Water Treatment, 2013, 51, 1352-1361.	1.0	61
30	Modeling of the cadmium transport through a bulk liquid membrane. Separation and Purification Technology, 2013, 107, 135-143.	7.9	24
31	Applicability of molecular simulations for modelling the adsorption of the greenhouse gas CF ₄ on carbons. Journal of Physics Condensed Matter, 2013, 25, 015004.	1.8	10
32	Concentration of Sodium Hydroxide Solutions by Electrodialysis. Separation Science and Technology, 2012, 47, 1405-1412.	2.5	4
33	The oxidative degradation and C-C coupling reaction of dibenzoazepine derivatives by peroxydisulfate ion and sulfate radical in aqueous media. Reaction Kinetics, Mechanisms and Catalysis, 2012, 107, 1-17.	1.7	2
34	Modeling of diffusive transport of benzoic acid through a liquid membrane. Chemical Papers, 2011, 65, .	2.2	9
35	Diffusive Transport of Benzoic Acid through an Agitated Bulk Liquid Membrane. Separation Science and Technology, 2011, 46, 2465-2472.	2.5	1
36	Modeling the electric transport of HCl and H ₃ PO ₄ mixture through anion-exchange membranes. Membrane Water Treatment, 2011, 2, 187-205.	0.5	5

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37	Ion-Exchange Membranes for Electrodialysis A Patents Review. Recent Patents on Chemical Engineering, 2011, 4, 141-160.	0.5	10
38	Ion-Exchange Membranes for Electrodialysis – A Patents Review. Recent Patents on Chemical Engineering, 2011, 4, 141-160.	0.5	1
39	Formation of a promazine radical and promazine 5-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.	1.6	3
40	Modeling the electric transport of sulfuric and phosphoric acids through anion-exchange membranes. Separation and Purification Technology, 2010, 73, 219-229.	7.9	15
41	Prediction of retention of uncharged solutes in nanofiltration by means of molecular descriptors. Membrane Water Treatment, 2010, 1, 181-192.	0.5	0
42	Transport of electrolytes through charged membranes – on the relations between the independent transport coefficients. Desalination, 2009, 241, 75-80.	8.2	3
43	Membrane-assisted removal of hydrocarbons from contaminated soils – laboratory test results. Desalination, 2009, 241, 218-226.	8.2	9
44	Theoretical analysis of steady states for ester hydrolysis in an enzymatic membrane reactor with product retention. Desalination, 2009, 246, 545-555.	8.2	4
45	Electric transport of sulfuric acid through anion-exchange membranes in aqueous solutions. Journal of Membrane Science, 2008, 318, 467-476.	8.2	20
46	Separation of weak and strong acids by electro-electrodialysis – Experiment and theory. Separation and Purification Technology, 2008, 60, 251-258.	7.9	18
47	Importance of the cross-effects in the transport through ion-exchange membranes. Journal of Membrane Science, 2007, 297, 226-235.	8.2	11
48	Concentration of anthocyanins by the membrane filtration. Separation and Purification Technology, 2007, 57, 418-424.	7.9	39
49	Modeling of weak acid production by the EDB method. Separation and Purification Technology, 2007, 57, 406-412.	7.9	16
50	Determination of the parameters of the Spiegler – Kedem – Katchalsky model for nanofiltration of single electrolyte solutions. Desalination, 2006, 198, 335-345.	8.2	32
51	A new model for characterization of bipolar membrane electrodialysis of brine. Desalination, 2006, 198, 111-123.	8.2	28
52	Theoretical analysis of the performance of composite membrane consisting of the catalytic and nanofiltration layers. Journal of Membrane Science, 2006, 280, 65-72.	8.2	2
53	The Kedem-Katchalsky equations and the sieve mechanism of membrane transport. Journal of Membrane Science, 2005, 246, 109-111.	8.2	12
54	Two-dimensional gas and vacancy solution approaches in the thermodynamic description of adsorption equilibrium. Journal of Colloid and Interface Science, 2005, 282, 335-339.	9.4	16

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55	Modelling of nanofiltration in softening water. Desalination, 2004, 162, 137-151.	8.2	25
56	Determination of the electrolyte and osmotic permeability coefficients by conductometric and emf methods. Desalination, 2004, 162, 373-381.	8.2	6
57	Transport of simple electrolyte solutions through ion-exchange membranes – the capillary model. Journal of Membrane Science, 2002, 206, 201-215.	8.2	53
58	Application of membrane techniques in a water softening process. Desalination, 2002, 145, 321-327.	8.2	26
59	Transport number of counterions in ion-exchange membranes. Separation and Purification Technology, 2001, 22-23, 643-654.	7.9	18
60	The equivalent pore radius of charged membranes from electroosmotic flow. Journal of Membrane Science, 2000, 166, 127-135.	8.2	31
61	Comparative investigations of ion-exchange membranes. Journal of Membrane Science, 1999, 153, 83-90.	8.2	98
62	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.	8.2	17
63	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.	8.2	14
64	Influence of the layer fixed charge distribution on the performance of an ion-exchange membrane. Journal of Membrane Science, 1995, 108, 177-183.	8.2	10
65	Transport properties of cation-exchange membranes in aqueous and methanolic solutions. Diffusion and osmosis. Journal of Membrane Science, 1993, 78, 147-153.	8.2	20
66	Transport of electrolytes across cation-exchange membranes.. Journal of Membrane Science, 1993, 78, 155-162.	8.2	5
67	Conversion of Osmotic into Mechanical Energy in Systems with Charged Membranes. Journal of Non-Equilibrium Thermodynamics, 1990, 15, 1-10.	4.2	1
68	Characteristics of Ion-Exchange Membranes for Electrodialysis on the Basis of Irreversible Thermodynamics. Journal of Non-Equilibrium Thermodynamics, 1990, 15, .	4.2	19
69	Current Efficiency and Transport Phenomena in Systems with Charged Membranes. Separation Science and Technology, 1989, 24, 1337-1354.	2.5	6
70	Irreversible thermodynamics of transport across charged membranes. Journal of Membrane Science, 1987, 30, 141-152.	8.2	7
71	Irreversible thermodynamics of transport across charged membranes. Journal of Membrane Science, 1987, 30, 125-140.	8.2	40
72	Interactions of Hydrated Species in Transport Across Membranes. Zeitschrift Fur Physikalische Chemie, 1986, 148, 247-253.	2.8	3

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73	Irreversible thermodynamics of transport across charged membranes. Journal of Membrane Science, 1985, 25, 153-170.	8.2	69
74	Ions and water transport across charged nafion membranes. Irreversible thermodynamics approach. Desalination, 1984, 51, 3-17.	8.2	63
75	Title is missing!. Angewandte Makromolekulare Chemie, 1980, 86, 157-170.	0.2	9
76	Modelling of lead ions transport through bulk liquid membrane. , 0, 181, 213-220.		3
77	Electrodialytic removal of H ₂ SO ₄ from its aqueous mixture with Na ₂ SO ₄ . Copernican Letters, 0, 1, 90.	0.0	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