Signe Kjelstrup

List of Publications by Year
in descending order

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340 papers	8,560 citations	46984 47 h-index	82499 72 g-index
353 all docs	353 docs citations	353 times ranked	5531 citing authors

#	Article	IF	Citations
1	Two Methods for Determination of Transport Numbers in Ion-Exchange Membranes. International Journal of Thermophysics, 2022, 43, 1.	1.0	4
2	Fluctuation-Dissipation Theorems for Multiphase Flow in Porous Media. Entropy, 2022, 24, 46.	1.1	9
3	Soret separation and thermo-osmosis in porous media. European Physical Journal E, 2022, 45, 41.	0.7	2
4	Thermo-osmotic pressure and resistance to mass transport in a vapor-gap membrane. Physical Chemistry Chemical Physics, 2021, 23, 12988-13000.	1.3	11
5	Nanothermodynamic Description and Molecular Simulation of a Single-Phase Fluid in a Slit Pore. Nanomaterials, 2021, 11, 165.	1.9	11
6	Transport coefficients and pressure conditions for growth of ice lens in frozen soil. Acta Geotechnica, 2021, 16, 2231-2239.	2.9	20
7	Special Issue on Nanoscale Thermodynamics. Nanomaterials, 2021, 11, 584.	1.9	1
8	Peltier effects in lithium-ion battery modeling. Journal of Chemical Physics, 2021, 154, 114705.	1.2	15
9	10.1063/5.0038168.1. , 2021, , .		0
10	Numerical modelling of distinct ice lenses in frost heave. IOP Conference Series: Earth and Environmental Science, 2021, 710, 012039.	0.2	3
11	Reviewâ€"Reversible Heat Effects in Cells Relevant for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 050522.	1.3	23
12	Scaling factors for channel width variations in tree-like flow field patterns for polymer electrolyte membrane fuel cells - An experimental study. International Journal of Hydrogen Energy, 2021, 46, 19554-19568.	3.8	14
13	Theory and simulation of shock waves: Entropy production and energy conversion. Physical Review E, 2021, 104, 014131.	0.8	5
14	Thermo-electrochemical cell performance and physicochemical properties of the molten carbonate electrolyte dispersed with different solid oxides. Electrochimica Acta, 2021, 386, 138481.	2.6	2
15	Particle flow through a hydrophobic nanopore: Effect of long-ranged wallâ€"fluid repulsion on transport coefficients. Physics of Fluids, 2021, 33, 102001.	1.6	2
16	Enhancing carrier flux for efficient drug delivery in cancer tissues. Biophysical Journal, 2021, 120, 5255-5266.	0.2	4
17	The energy conversion in active transport of ions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	3
18	Cassieâ€"Baxter and Wenzel States and the Effect of Interfaces on Transport Properties across Membranes. Journal of Physical Chemistry B, 2021, 125, 12730-12740.	1.2	14

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19	Gas electrodes with nickel based current collectors for molten carbonate electrolyte thermo-electrochemical cells. Journal of Energy Chemistry, 2020, 41, 34-42.	7.1	7
20	Good practice guide for papers on fuel cells and electrolysis cells for the Journal of Power Sources. Journal of Power Sources, 2020, 451, 227635.	4.0	33
21	Nonequilibrium thermodynamics of surfaces captures the energy conversions in a shock wave. Chemical Physics Letters: X, 2020, 738, 100054.	2.1	3
22	Efficiency in the process industry: Three thermodynamic tools for better resource use. Trends in Food Science and Technology, 2020, 104, 84-90.	7.8	4
23	Entropy Production beyond the Thermodynamic Limit from Single-Molecule Stretching Simulations. Journal of Physical Chemistry B, 2020, 124, 8909-8917.	1.2	7
24	When Thermodynamic Properties of Adsorbed Films Depend on Size: Fundamental Theory and Case Study. Nanomaterials, 2020, 10, 1691.	1.9	9
25	A Legendreâ€“Fenchel Transform for Molecular Stretching Energies. Nanomaterials, 2020, 10, 2355.	1.9	5
26	The influence of interfacial transfer and film coupling in the modeling of distillation columns to separate nitrogen and oxygen mixtures. Chemical Engineering Science: X, 2020, 8, 100076.	1.5	0
27	Editorial: Physics of Porous Media. Frontiers in Physics, 2020, 8, .	1.0	0
28	Seeking minimum entropy production for a tree-like flow-field in a fuel cell. Physical Chemistry Chemical Physics, 2020, 22, 6993-7003.	1.3	15
29	Fractal-Like Flow-Fields with Minimum Entropy Production for Polymer Electrolyte Membrane Fuel Cells. Entropy, 2020, 22, 176.	1.1	10
30	Energy efficiency of respiration in mature and newborn reindeer. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2020, 190, 509-520.	0.7	6
31	Minimum entropy production in a distillation column for air separation described by a continuous non-equilibrium model. Chemical Engineering Science, 2020, 218, 115539.	1.9	14
32	Flow Field Patterns for Proton Exchange Membrane Fuel Cells. Frontiers in Energy Research, 2020, 8, .	1.2	78
33	Gibbs Ensemble Monte Carlo Simulation of Fluids in Confinement: Relation between the Differential and Integral Pressures. Nanomaterials, 2020, 10, 293.	1.9	15
34	The reversible heat effects at lithium iron phosphate- and graphite electrodes. Electrochimica Acta, 2020, 337, 135567.	2.6	16
35	The heat of transfer and the Peltier coefficient of electrolytes. Chemical Physics Letters: X, 2020, 738, 100040.	2.1	8
36	Good practice guide for papers on batteries for the Journal of Power Sources. Journal of Power Sources, 2020, 452, 227824.	4.0	34

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37	Onsager-Symmetry Obeyed in Athermal Mesoscopic Systems: Two-Phase Flow in Porous Media. Frontiers in Physics, 2020, 8, .	1.0	11
38	Two-Phase Equilibrium Conditions in Nanopores. Nanomaterials, 2020, 10, 608.	1.9	17
39	The Impact of Peltier and Dufour Coefficients on Heat Fluxes and Temperature Profiles in the Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2020, 167, 144503.	1.3	8
40	(Invited) Modelling Electrochemical Cells with Porous Electrodes. The Proton Exchange Membrane Fuel Cell. ECS Transactions, 2019, 92, 279-292.	0.3	4
41	Pressures Inside a Nano-Porous Medium. The Case of a Single Phase Fluid. Frontiers in Physics, 2019, 7, .	1.0	19
42	Nature-inspired geometrical design of a chemical reactor. Chemical Engineering Research and Design, 2019, 152, 20-29.	2.7	8
43	Non-equilibrium thermodynamics as a tool to compute temperature at the catalyst surface. Physical Chemistry Chemical Physics, 2019, 21, 15195-15205.	1.3	0
44	Non-isothermal Transport of Multi-phase Fluids in Porous Media. Constitutive Equations. Frontiers in Physics, 2019, 6, .	1.0	18
45	Thermal Conductivity of Molten Carbonates with Dispersed Solid Oxide from Differential Scanning Calorimetry. Materials, 2019, 12, 1486.	1.3	3
46	Thermoelectric Power of Ion Exchange Membrane Cells Relevant to Reverse Electrodialysis Plants. Physical Review Applied, 2019, 11, .	1.5	12
47	(Invited) Modelling Electrochemical Cells with Porous Electrodes. The Proton Exchange Membrane Fuel Cell. ECS Meeting Abstracts, 2019, , .	0.0	0
48	Peltier Heats of LiFePO4 electrodes from a Thermoelectric Cell. ECS Meeting Abstracts, 2019, , .	0.0	0
49	Finite-size effects of Kirkwoodâ€“Buff integrals from molecular simulations. Molecular Simulation, 2018, 44, 599-612.	0.9	47
50	Non-isothermal Transport of Multi-phase Fluids in Porous Media. The Entropy Production. Frontiers in Physics, 2018, 6, .	1.0	18
51	Perspectives on Thermoelectric Energy Conversion in Ion-Exchange Membranes. Entropy, 2018, 20, 905.	1.1	10
52	Electrolyte Melt Compositions for Low Temperature Molten Carbonate Thermocells. ACS Applied Energy Materials, 2018, , .	2.5	4
53	Relations Between Seepage Velocities in Immiscible, Incompressible Two-Phase Flow in Porous Media. Transport in Porous Media, 2018, 125, 565-587.	1.2	20
54	Exergy-based performance indicators for industrial practice. International Journal of Energy Research, 2018, 42, 3989-4007.	2.2	13

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55	Stable and Efficient Time Integration of a Dynamic Pore Network Model for Two-Phase Flow in Porous Media. Frontiers in Physics, 2018, 6, .	1.0	24
56	Fluid-Fluid Interfaces of Multi-Component Mixtures in Local Equilibrium. Entropy, 2018, 20, 250.	1.1	7
57	Hillâ€™s nano-thermodynamics is equivalent with Gibbsâ€™ thermodynamics for surfaces of constant curvatures. Chemical Physics Letters, 2018, 707, 40-43.	1.2	18
58	The thermal boundary resistance at semiconductor interfaces: a critical appraisal of the Onsager vs. Kapitza formalisms. Physical Chemistry Chemical Physics, 2018, 20, 22623-22628.	1.3	2
59	Energy efficient design of membrane processes by use of entropy production minimization. Computers and Chemical Engineering, 2018, 117, 105-116.	2.0	8
60	Energy efficiency as an example of cross-discipline collaboration in chemical engineering. Chemical Engineering Research and Design, 2017, 119, 183-187.	2.7	8
61	Size and shape effects on the thermodynamic properties of nanoscale volumes of water. Physical Chemistry Chemical Physics, 2017, 19, 9016-9027.	1.3	27
62	A Monte Carlo Algorithm for Immiscible Two-Phase Flow in Porous Media. Transport in Porous Media, 2017, 116, 869-888.	1.2	12
63	Ensemble distribution for immiscible two-phase flow in porous media. Physical Review E, 2017, 95, 023116.	0.8	8
64	Thermodynamic properties of hydrogen dissociation reaction from the small system method and reactive force field ReaxFF. Chemical Physics Letters, 2017, 672, 128-132.	1.2	6
65	Harnessing thermoelectric power from transient heat sources: Waste heat recovery from silicon production. Energy Conversion and Management, 2017, 138, 171-182.	4.4	22
66	Entropy Production Minimization as Design Principle for Membrane Systems: Comparing Equipartition Results to Numerical Optima. Industrial & Engineering Chemistry Research, 2017, 56, 4856-4866.	1.8	13
67	Thermal conductivity and internal temperature profiles of Li-ion secondary batteries. Journal of Power Sources, 2017, 359, 592-600.	4.0	75
68	Thermodynamics of Electrochemical Systems. , 2017, , 69-93.		2
69	The Nasal Geometry of the Reindeer Gives Energy-Efficient Respiration. Journal of Non-Equilibrium Thermodynamics, 2017, 42, .	2.4	8
70	Modeling Thermodynamic Properties of Propane or Tetrahydrofuran Mixed with Carbon Dioxide or Methane in Structure-II Clathrate Hydrates. Journal of Physical Chemistry C, 2017, 121, 23911-23925.	1.5	15
71	Measurements of ageing and thermal conductivity in a secondary NMC-hard carbon Li-ion battery and the impact on internal temperature profiles. Electrochimica Acta, 2017, 250, 228-237.	2.6	70
72	Phase Diagram of Methane and Carbon Dioxide Hydrates Computed by Monte Carlo Simulations. Journal of Physical Chemistry B, 2017, 121, 7336-7350.	1.2	35

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73	Thermo-osmosis in Membrane Systems: A Review. Journal of Non-Equilibrium Thermodynamics, 2017, 42, .	2.4	36
74	Entropy facilitated active transport. Journal of Chemical Physics, 2017, 146, .	1.2	14
75	Membrane distillation against a pressure difference. Journal of Membrane Science, 2017, 524, 151-162.	4.1	25
76	Exploring the potential for waste heat recovery during metal casting with thermoelectric generators: On-site experiments and mathematical modeling. Energy, 2017, 118, 865-875.	4.5	41
77	The permselectivity and water transference number of ion exchange membranes in reverse electrodialysis. Journal of Membrane Science, 2017, 523, 402-408.	4.1	78
78	Single Electrode Entropy Change for LiCoO₂Electrodes. ECS Transactions, 2017, 80, 219-238.	0.3	11
79	Influence of Electrode Gas Flow Rate and Solid Oxide Ratio in Electrolyte on the Seebeck Coefficient of Molten Carbonate Thermocell. Journal of the Electrochemical Society, 2017, 164, H5271-H5276.	1.3	6
80	Molecular Dynamics Simulations of Metal/Molten Alkali Carbonate Interfaces. Journal of Physical Chemistry C, 2017, 121, 17827-17847.	1.5	13
81	Non-Equilibrium Thermodynamics for Engineers. , 2017, , .		18
82	Heat and mass transfer in reacting mixtures: Molecular dynamics and kinetic theory approaches. AIP Conference Proceedings, 2016, , .	0.3	0
83	Enhancing the understanding of heat and mass transport through a cellulose acetate membrane for CO2 separation. Journal of Membrane Science, 2016, 513, 129-139.	4.1	10
84	Molecular alignment in molecular fluids induced by coupling between density and thermal gradients. Physical Chemistry Chemical Physics, 2016, 18, 12213-12220.	1.3	7
85	Thermal Inductance in GaN Devices. IEEE Electron Device Letters, 2016, 37, 1473-1476.	2.2	6
86	Coherent description of transport across the water interface: From nanodroplets to climate models. Physical Review E, 2016, 93, 032801.	0.8	23
87	Computing properties of the hydrogen dissociation reaction in and away from equilibrium. Molecular Simulation, 2016, 42, 1343-1355.	0.9	2
88	Influence of Electrode Gas Flow Rate and Electrolyte Composition on Thermoelectric Power in Molten Carbonate Thermocell. ECS Transactions, 2016, 75, 171-179.	0.3	0
89	Heat transport through a solidâ€“solid junction: the interface as an autonomous thermodynamic system. Physical Chemistry Chemical Physics, 2016, 18, 13741-13745.	1.3	25
90	Entropy production in mesoscopic stochastic thermodynamics: nonequilibrium kinetic cycles driven by chemical potentials, temperatures, and mechanical forces. Journal of Physics Condensed Matter, 2016, 28, 153004.	0.7	36

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91	Seebeck coefficients of cells with molten carbonates relevant for the metallurgical industry. Electrochimica Acta, 2015, 182, 342-350.	2.6	12
92	Graphene coatings for chemotherapy: avoiding silver-mediated degradation. 2D Materials, 2015, 2, 025004.	2.0	11
93	Efficiency of electrochemical gas compression, pumping and power generation in membranes. Journal of Membrane Science, 2015, 478, 37-48.	4.1	12
94	Heat and Mass Transfer across Interfaces in Complex Nanogeometries. Physical Review Letters, 2015, 114, 065901.	2.9	19
95	Simulation of Pore Width and Pore Charge Effects on Selectivities of CO2 vs. H2 from a Syngas-like Mixture in Carbon Mesopores. Energy Procedia, 2015, 64, 150-159.	1.8	9
96	The temperature jump at a growing iceâ€“water interface. Chemical Physics Letters, 2015, 622, 15-19.	1.2	9
97	A procedure to find thermodynamic equilibrium constants for CO₂ and CH₄ adsorption on activated carbon. Physical Chemistry Chemical Physics, 2015, 17, 8223-8230.	1.3	6
98	Tailored porosities of the cathode layer for improved polymer electrolyte fuel cell performance. Journal of Power Sources, 2015, 287, 472-477.	4.0	31
99	Exergy based efficiency indicators for the silicon furnace. Energy, 2015, 90, 1916-1921.	4.5	29
100	Diffusion of Heat and Mass in a Chemically Reacting Mixture away from Equilibrium. Journal of Physical Chemistry C, 2015, 119, 12838-12847.	1.5	6
101	Influence of Curvature on the Transfer Coefficients for Evaporation and Condensation of Lennard-Jones Fluid from Square-Gradient Theory and Nonequilibrium Molecular Dynamics. Journal of Physical Chemistry C, 2015, 119, 8160-8173.	1.5	28
102	Low barriers for hydrogen diffusion in sII clathrate. Physical Chemistry Chemical Physics, 2015, 17, 13808-13812.	1.3	34
103	Seebeck coefficients of cells with lithium carbonate and gas electrodes. Electrochimica Acta, 2015, 182, 699-706.	2.6	14
104	Calculation of the chemical potential and the activity coefficient of two layers of CO₂ adsorbed on a graphite surface. Physical Chemistry Chemical Physics, 2015, 17, 1226-1233.	1.3	12
105	Mechanical instability of monocrystalline and polycrystalline methane hydrates. Nature Communications, 2015, 6, 8743.	5.8	93
106	Compressibility, thermal expansion coefficient and heat capacity of CH₄ and CO₂ hydrate mixtures using molecular dynamics simulations. Physical Chemistry Chemical Physics, 2015, 17, 2869-2883.	1.3	82
107	Michaelisâ€“Menten kinetics under non-isothermal conditions. Physical Chemistry Chemical Physics, 2015, 17, 1317-1324.	1.3	9
108	A thermodynamic Metric for Assessing Sustainable Use of Natural Resources. International Journal of Thermodynamics, 2015, 18, 66.	0.4	0

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109	On the relation between the Langmuir and thermodynamic flux equations. Frontiers in Physics, 2014, 1, .	1.0	7
110	Thermodynamic characterization of two layers of CO2 on a graphite surface. Chemical Physics Letters, 2014, 612, 214-218.	1.2	8
111	Thermodynamic stability of nanosized multicomponent bubbles/droplets: The square gradient theory and the capillary approach. Journal of Chemical Physics, 2014, 140, 024704.	1.2	30
112	Thermal conductivity of carbon dioxide from non-equilibrium molecular dynamics: A systematic study of several common force fields. Journal of Chemical Physics, 2014, 141, 134504.	1.2	21
113	Partial molar enthalpies and reaction enthalpies from equilibrium molecular dynamics simulation. Journal of Chemical Physics, 2014, 141, 144501.	1.2	20
114	Communication: Superstabilization of fluids in nanocontainers. Journal of Chemical Physics, 2014, 141, 071103.	1.2	17
115	Nonlinear coupled equations for electrochemical cells as developed by the general equation for nonequilibrium reversible-irreversible coupling. Journal of Chemical Physics, 2014, 141, 124102.	1.2	8
116	Phase transitions in multicomponent systems at the nano-scale: the existence of a minimal bubble size. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2014, 5, 015009.	0.7	1
117	Bridging scales with thermodynamics: from nano to macro. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2014, 5, 023002.	0.7	15
118	Heat and mass transfer through interfaces of nanosized bubbles/droplets: the influence of interface curvature. Physical Chemistry Chemical Physics, 2014, 16, 10573-10586.	1.3	18
119	Exergy destruction and losses on four North Sea offshore platforms: A comparative study of the oil and gas processing plants. Energy, 2014, 74, 45-58.	4.5	44
120	Improved Cathode Catalyst Layers for Proton Exchange Membrane Fuel Cells. ECS Transactions, 2014, 64, 321-339.	0.3	4
121	The reaction enthalpy of hydrogen dissociation calculated with the Small System Method from simulation of molecular fluctuations. Physical Chemistry Chemical Physics, 2014, 16, 19681.	1.3	7
122	Extending the nonequilibrium square-gradient model with temperature-dependent influence parameters. Physical Review E, 2014, 90, 032402.	0.8	8
123	On the definition of exergy efficiencies for petroleum systems: Application to offshore oil and gas processing. Energy, 2014, 73, 264-281.	4.5	43
124	Equilibrium properties of the reaction H₂â‡Œ 2H by classical molecular dynamics simulations. Physical Chemistry Chemical Physics, 2014, 16, 1227-1237.	1.3	10
125	Thermodynamic Performance Indicators for Offshore Oil and Gas Processing: Application to Four North Sea Facilities. Oil and Gas Facilities, 2014, 3, 051-063.	0.4	5
126	Thermophoresis. , 2014, , 1-6.		0

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127	Eutectic Structures Competition in the Stripes Strengthening the (Zn) â€“ Single Crystal. Archives of Foundry Engineering, 2014, 14, 95-102.	0.4	1
128	Active transport of the Ca2+-pump: introduction of the temperature difference as a driving force. European Biophysics Journal, 2013, 42, 321-331.	1.2	6
129	Chemical Cycle Kinetics: Removing the Limitation of Linearity of a Non-equilibrium Thermodynamic Description. International Journal of Thermophysics, 2013, 34, 1214-1228.	1.0	14
130	Expanded Focus on Non-equilibrium Thermodynamics. International Journal of Thermophysics, 2013, 34, 1167-1168.	1.0	0
131	Diffusion Coefficients from Molecular Dynamics Simulations in Binary and Ternary Mixtures. International Journal of Thermophysics, 2013, 34, 1169-1196.	1.0	102
132	Describing transport across complex biological interfaces. European Physical Journal: Special Topics, 2013, 222, 143-159.	1.2	4
133	Energy and exergy analysis of the silicon production process. Energy, 2013, 58, 138-146.	4.5	57
134	Analysis of temperature difference driven heat and mass transfer in the Phillipsâ€“Onsager cell. International Journal of Heat and Mass Transfer, 2013, 58, 521-531.	2.5	6
135	Thermal phenomena associated with water transport across a fuel cell membrane: Soret and Dufour effects. Journal of Membrane Science, 2013, 431, 96-104.	4.1	13
136	The Seebeck coefficient and the Peltier effect in a polymer electrolyte membrane cell with two hydrogen electrodes. Electrochimica Acta, 2013, 99, 166-175.	2.6	27
137	Adsorption of Argon on MFI Nanosheets: Experiments and Simulations. Journal of Physical Chemistry C, 2013, 117, 24503-24510.	1.5	10
138	Thermoelectric effects in ion conducting membranes and perspectives for thermoelectric energy conversion. Journal of Membrane Science, 2013, 434, 10-17.	4.1	19
139	Exergy analysis of the oil and gas processing on a North Sea oil platform a real production day. Energy, 2013, 55, 716-727.	4.5	59
140	Mesoscopic non-equilibrium thermodynamic analysis of molecular motors. Physical Chemistry Chemical Physics, 2013, 15, 19405.	1.3	8
141	Evaluation of Nanoporous Polymer Membranes for Electrokinetic Energy Conversion in Power Applications. Journal of Physical Chemistry C, 2013, 117, 1582-1588.	1.5	33
142	How to apply the Kirkwoodâ€“Buff theory to individual species in salt solutions. Chemical Physics Letters, 2013, 582, 154-157.	1.2	49
143	On the transported entropy of ions (Replies to comments by Alan L. Rockwood in Electrochimica Acta) Tj ETQq1 1 0.784314 rgBT /Ov 2013, 107, 693-694.	2.6	4
144	Kirkwoodâ€“Buff Integrals for Finite Volumes. Journal of Physical Chemistry Letters, 2013, 4, 235-238.	2.1	163

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145	Ageing and thermal conductivity of Porous Transport Layers used for PEM Fuel Cells. Journal of Power Sources, 2013, 221, 356-365.	4.0	37
146	Non-equilibrium thermodynamics for the description of transport of heat and mass across a zeolite membrane. , 2013, , 627-645.		1
147	Effective rheology of bubbles moving in a capillary tube. Physical Review E, 2013, 87, 025001.	0.8	26
148	Selectivity and self-diffusion of CO2 and H2 in a mixture on a graphite surface. Frontiers in Chemistry, 2013, 1, 38.	1.8	24
149	Cyclic Peptide Inhibitors of the Î²-Sliding Clamp in Staphylococcus aureus. PLoS ONE, 2013, 8, e72273.	1.1	18
150	Temperature-difference-driven mass transfer through the vapor from a cold to a warm liquid. Physical Review E, 2012, 85, 061201.	0.8	6
151	A non-equilibrium thermodynamics model of multicomponent mass and heat transport in pervaporation processes. Journal of Non-Equilibrium Thermodynamics, 2012, 37, .	2.4	7
152	Toward a Possibility To Exchange CO₂ and CH₄ in sI Clathrate Hydrates. Journal of Physical Chemistry B, 2012, 116, 3745-3753.	1.2	24
153	Molecular dynamics simulations of the Ca2+-pump: a structural analysis. Physical Chemistry Chemical Physics, 2012, 14, 3543.	1.3	14
154	Mechanical properties of clathrate hydrates: status and perspectives. Energy and Environmental Science, 2012, 5, 6779.	15.6	161
155	Thermodynamics of small systems embedded in a reservoir: a detailed analysis of finite size effects. Molecular Physics, 2012, 110, 1069-1079.	0.8	62
156	On the Thermodynamic Efficiency of Ca2+-ATPase Molecular Machines. Biophysical Journal, 2012, 103, 1218-1226.	0.2	16
157	Fick Diffusion Coefficients in Ternary Liquid Systems from Equilibrium Molecular Dynamics Simulations. Industrial & Engineering Chemistry Research, 2012, 51, 10247-10258.	1.8	79
158	Local equilibrium of the Gibbs interface in two-phase systems. Europhysics Letters, 2012, 97, 40002.	0.7	26
159	Kinetic and mesoscopic non-equilibrium description of the Ca2+ pump: a comparison. European Biophysics Journal, 2012, 41, 437-448.	1.2	8
160	Improved electrode systems for reverse electro-dialysis and electro-dialysis. Desalination, 2012, 285, 147-152.	4.0	75
161	Assessing the coupled heat and mass transport of hydrogen through a palladium membrane. Journal of Membrane Science, 2012, 394-395, 131-139.	4.1	11
162	Through-Plane Thermal Conductivity of PEMFC Porous Transport Layers. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	84

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163	Calculating Thermodynamic Properties from Fluctuations at Small Scales. Journal of Physical Chemistry B, 2011, 115, 10911-10918.	1.2	105
164	Improving the Heat Integration of Distillation Columns in a Cryogenic Air Separation Unit. Industrial & Engineering Chemistry Research, 2011, 50, 9324-9338.	1.8	33
165	Concentration fluctuations in non-isothermal reaction-diffusion systems. II. The nonlinear case. Journal of Chemical Physics, 2011, 135, 124516.	1.2	11
166	Fick Diffusion Coefficients of Liquid Mixtures Directly Obtained From Equilibrium Molecular Dynamics. Journal of Physical Chemistry B, 2011, 115, 12921-12929.	1.2	70
167	External Surface Adsorption on Silicalite-1 Zeolite Studied by Molecular Simulation. Journal of Physical Chemistry C, 2011, 115, 15355-15360.	1.5	18
168	Transfer coefficients for the liquidâ€“vapor interface of a two-component mixture. Chemical Engineering Science, 2011, 66, 4533-4548.	1.9	19
169	Modeling a non-equilibrium distillation stage using irreversible thermodynamics. Chemical Engineering Science, 2011, 66, 2713-2722.	1.9	9
170	Thermodynamics of a small system in a Î¼T reservoir. Chemical Physics Letters, 2011, 504, 199-201.	1.2	71
171	Nonisothermal diffusionâ€“reaction with nonlinear Kramers kinetics. Comptes Rendus - Mecanique, 2011, 339, 287-291.	2.1	1
172	Calculation of reversible electrode heats in the proton exchange membrane fuel cell from calorimetric measurements. Electrochimica Acta, 2011, 56, 3248-3257.	2.6	17
173	Two performance indicators for the characterization of the entropy production in a process unit. Energy, 2011, 36, 3727-3732.	4.5	14
174	The role of temperature in nucleation processes. Journal of Chemical Physics, 2011, 134, 054703.	1.2	17
175	The Importance of Coupling between Thermal and Molar Fluxes in a Nitrogen-Oxygen Distillation Column. International Journal of Thermodynamics, 2011, 14, .	0.4	2
176	Through-Plane Thermal Conductivity of PEMFC Porous Transport Layers. , 2010, , .		0
177	Thermodynamic properties of a liquidâ€“vapor interface in a two-component system. Chemical Engineering Science, 2010, 65, 4105-4116.	1.9	9
178	Ex situ measurements of through-plane thermal conductivities in a polymer electrolyte fuel cell. Journal of Power Sources, 2010, 195, 249-256.	4.0	155
179	Energy efficient reactor design simplified by second law analysis. International Journal of Hydrogen Energy, 2010, 35, 13219-13231.	3.8	27
180	A calorimetric analysis of a polymer electrolyte fuel cell and the production of H2O2 at the cathode. Electrochimica Acta, 2010, 55, 935-942.	2.6	20

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181	Modelling the coupled transfer of mass and thermal energy in the vapourâ€“liquid region of a nitrogenâ€“oxygen mixture. Chemical Engineering Science, 2010, 65, 2236-2248.	1.9	15
182	Exergy analysis of two cryogenic air separation processes. Energy, 2010, 35, 4731-4739.	4.5	105
183	Adsorption and Desorption of H₂ on Graphite by Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2010, 114, 10212-10220.	1.5	26
184	Nature-Inspired Energy- and Material-Efficient Design of a Polymer Electrolyte Membrane Fuel Cell. Energy & Fuels, 2010, 24, 5097-5108.	2.5	66
185	Heat transfer in proteinâ€“water interfaces. Physical Chemistry Chemical Physics, 2010, 12, 1610.	1.3	95
186	Mesoscopic non-equilibrium thermodynamics of non-isothermal reaction-diffusion. Physical Chemistry Chemical Physics, 2010, 12, 12780.	1.3	24
187	Chapter 14. Applied Non-Equilibrium Thermodynamics. , 2010, , 460-498.		0
188	On the Measured PEMFC Anode and Cathode Reversible Heats. , 2010, , .		0
189	A non-equilibrium thermodynamics approach to model mass and heat transport for water pervaporation through a zeolite membrane. Journal of Membrane Science, 2009, 330, 388-398.	4.1	37
190	Transport coefficients of n-butane into and through the surface of silicalite-1 from non-equilibrium molecular dynamics study. Microporous and Mesoporous Materials, 2009, 125, 112-125.	2.2	11
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