

# Eli Korin

## List of Publications by Year in descending order

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48  
papers

864  
citations

471061

17  
h-index

500791

28  
g-index

48  
all docs

48  
docs citations

48  
times ranked

873  
citing authors

#	ARTICLE	IF	CITATIONS
1	The vapour pressures of saturated aqueous solutions of sodium chloride, sodium bromide, sodium nitrate, sodium nitrite, potassium iodate, and rubidium chloride at temperatures from 227 K to 323 K. Journal of Chemical Thermodynamics, 1998, 30, 59-71.	1.0	101
2	Silica Fouling in Direct Contact Membrane Distillation. Industrial & Engineering Chemistry Research, 2013, 52, 10521-10529.	1.8	60
3	Prevention of Scaling of Reverse Osmosis Membranes by "Zeroing" the Elapsed Nucleation Time. Part I. Calcium Sulfate. Industrial & Engineering Chemistry Research, 2006, 45, 2008-2016.	1.8	53
4	Vapour pressures of saturated aqueous solutions of ammonium iodide, potassium iodide, potassium nitrate, strontium chloride, lithium sulphate, sodium thiosulphate, magnesium nitrate, and uranyl nitrate from T=(278 to 323) K. Journal of Chemical Thermodynamics, 1998, 30, 459-471.	1.0	50
5	Selective separation of cis-trans geometrical isomers of $\beta$ -carotene via CO <sub>2</sub> supercritical fluid extraction. Biotechnology and Bioengineering, 2002, 80, 169-174.	1.7	48
6	The molar enthalpies of solution and vapour pressures of saturated aqueous solutions of some cesium salts. Journal of Chemical Thermodynamics, 2006, 38, 152-157.	1.0	45
7	Effect of drying on the biological activities of a red microalgal polysaccharide. Biotechnology and Bioengineering, 2008, 99, 411-420.	1.7	42
8	Kinetic model for crystallization in porous media. International Journal of Heat and Mass Transfer, 1997, 40, 1053-1059.	2.5	41
9	The vapour pressure of water over saturated solutions of sodium sulfate, calcium bromide, ferric chloride, zinc nitrate, calcium nitrate, and lithium nitrate at temperatures from 278.15K to 323.15K. Journal of Chemical Thermodynamics, 2002, 34, 1621-1637.	1.0	29
10	Kinetics of Gypsum Precipitation for Designing Interstage Crystallizers for Concentrate in High Recovery Reverse Osmosis. Industrial & Engineering Chemistry Research, 2013, 52, 14647-14657.	1.8	24
11	Thawing and refreezing around a buried pipe. Chemical Engineering and Processing: Process Intensification, 1999, 38, 239-247.	1.8	22
12	Experimental studies of water crystallization in porous media. Chemical Engineering and Processing: Process Intensification, 2002, 41, 357-363.	1.8	22
13	Structures Self-Assembled from Anionic Graphene and Cationic Manganese Porphyrin: Characterization and Application in Artificial Photosynthesis. European Journal of Inorganic Chemistry, 2014, 2014, 2288-2295.	1.0	21
14	Solubilities and vapour pressures of saturated aqueous solutions of sodium peroxydisulfate and potassium peroxydisulfate. Journal of Chemical Thermodynamics, 2001, 33, 61-69.	1.0	20
15	Frost formation as a temporary enhancer for quench pool boiling. Applied Thermal Engineering, 2013, 52, 345-352.	3.0	20
16	Two-phase zone formation conditions under freezing of porous media. Journal of Crystal Growth, 1999, 198-199, 89-95.	0.7	18
17	The molar enthalpies of solution and solubilities of ammonium, sodium and potassium oxalates in water. Journal of Chemical Thermodynamics, 2004, 36, 41-44.	1.0	18
18	The vapour pressure of saturated aqueous solutions of D(+)-glucose, D(+)-galactose, and $\beta$ -lactose at temperatures from T=278 K to T=318 K. Journal of Chemical Thermodynamics, 1998, 30, 1263-1269.	1.0	17

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19	The vapour pressures over saturated aqueous solutions of cadmium chloride, cadmium bromide, cadmium iodide, cadmium nitrate, and cadmium sulphate. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1065-1070.	1.0	16
20	Different Pathways for CO <sub>2</sub> Electrochemical Reduction by Confined CoTMPyP in Electrodeposited Reduced Graphene Oxide. <i>ACS Applied Energy Materials</i> , 2019, 2, 8434-8440.	2.5	16
21	Temperature Dependence of Vapor Pressures over Saturated Aqueous Solutions at Invariant Points of the NaCl + KCl + H <sub>2</sub> O, NaCl + NaNO <sub>3</sub> + H <sub>2</sub> O, KCl + KBr + H <sub>2</sub> O, KCl + KI + H <sub>2</sub> O, KCl + KNO <sub>3</sub> + H <sub>2</sub> O, and KCl + K <sub>2</sub> SO <sub>4</sub> + H <sub>2</sub> O Systems. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1619-1624.	1.0	14
22	Solubility of Potassium Dichromate in Dilute Aqueous Ethanol Solutions in the Temperature Range 283 K to 303 K. <i>Journal of Chemical &amp; Engineering Data</i> , 1997, 42, 1251-1253.	1.0	12
23	Tautomerism in N-confused porphyrins as the basis of a novel fiber-optic humidity sensor. <i>Journal of Porphyrins and Phthalocyanines</i> , 2006, 10, 63-66.	0.4	12
24	Phase Diagram for the System K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> + KNO <sub>3</sub> + H <sub>2</sub> O in the Temperature Range 10 °C to 40 °C. <i>Journal of Chemical &amp; Engineering Data</i> , 1997, 42, 508-510.	1.0	11
25	The molar enthalpies of solution and vapour pressures of saturated aqueous solutions of some ammonium salts. <i>Journal of Chemical Thermodynamics</i> , 2003, 35, 699-709.	1.0	11
26	Room-temperature conversion of the photoelectrochemical oxidation of methane into electricity at nanostructured TiO <sub>2</sub> . <i>Sustainable Energy and Fuels</i> , 2021, 5, 127-134.	2.5	10
27	Ion-Conductive and Transparent Resorcinol-Formaldehyde Hydrogels for Electrochemical and Solar Applications. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, F1.	2.2	9
28	Enhancement of Electrocatalytic CO <sub>2</sub> Reduction to Methane by CoTMPyP when Hosted in a 3D Covalent Graphene Framework. <i>ACS Applied Energy Materials</i> , 2021, 4, 10033-10041.	2.5	9
29	The vapour pressures of saturated aqueous solutions of magnesium, calcium, nickel and zinc acetates and molar enthalpies of solution of magnesium, calcium, zinc and lead acetates. <i>Journal of Chemical Thermodynamics</i> , 2001, 33, 113-120.	1.0	8
30	The molar enthalpies of solution and vapour pressures of saturated aqueous solutions of aluminium chloride, aluminium nitrate and aluminium sulphate. <i>Journal of Chemical Thermodynamics</i> , 2002, 34, 1919-1927.	1.0	8
31	Enhancement of photoelectrochemical organics degradation and power generation by electrodeposited coatings of g-C <sub>3</sub> N <sub>4</sub> and graphene on TiO <sub>2</sub> nanotube arrays. <i>Nanoscale Advances</i> , 2019, 1, 4128-4136.	2.2	8
32	Temperature Dependence of Vapor Pressures over Saturated Aqueous Solutions at Invariant Points of the NaCl + KNO <sub>3</sub> + H <sub>2</sub> O, NaCl + Na <sub>2</sub> CO <sub>3</sub> + H <sub>2</sub> O, and NaCl + Na <sub>2</sub> SO <sub>4</sub> + H <sub>2</sub> O Systems. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 988-994.	1.0	7
33	Thermodynamic properties of aqueous solutions with citrate ions. Compressibility studies in aqueous solutions of citric acid. <i>Journal of Chemical Thermodynamics</i> , 2013, 64, 14-21.	1.0	7
34	Phase Diagram for the System Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> + NaNO <sub>3</sub> + H <sub>2</sub> O in the Temperature Range 20 °C to 40 °C. <i>Journal of Chemical &amp; Engineering Data</i> , 1996, 41, 885-887.	1.0	6
35	Electrocatalytic Activity towards Oxygen Reduction of Electropolymerized Cobalt Porphyrin Doped with Ionic-Liquid-Functionalized Graphene. <i>Journal of the Electrochemical Society</i> , 2015, 162, H481-H485.	1.3	6
36	Quench Pool Boiling with Temporary Crystalline Enhancers. <i>Chemical Engineering and Technology</i> , 2014, 37, 349-356.	0.9	5

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37	Chemical bias of electrochemical and photoelectrochemical water splitting using a hydrogel separator. <i>Electrochemistry Communications</i> , 2015, 60, 97-99.	2.3	5
38	Accelerated Cryogenic Cooling Caused by the Temporary Frost Layer Enhancer. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	5
39	Growth Behavior of Copper and Platinum Nanoparticles in an Imidazolium Based Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2017, 164, H5026-H5030.	1.3	5
40	Supercritical Fluid Extraction of Lipids and Other Materials from Algae. , 2005, , .		4
41	Macrocellular iron foams: characterization and facile conversion into water splitting photoanodes. <i>RSC Advances</i> , 2012, 2, 9376.	1.7	4
42	Hydrodynamic method for cleaning inner surfaces of pipes. <i>Chemical Engineering and Technology</i> , 1997, 20, 277-281.	0.9	3
43	Solubility of Potassium Dichromate in Dilute Aqueous Methanol and 2-Propanol Solutions in the Temperature Range 283 K to 303 K. <i>Journal of Chemical &amp; Engineering Data</i> , 1998, 43, 823-825.	1.0	3
44	FUEL CELLS AND IONICALLY CONDUCTIVE MEMBRANES: AN OVERVIEW. <i>Reviews in Chemical Engineering</i> , 2007, 23, .	2.3	3
45	A bilayer coating as an oxygen-transfer cascade for the electrochemical ambient conversion of methane to oxygenates. <i>Chemical Communications</i> , 2022, 58, 3154-3157.	2.2	3
46	Parametric Study of a Hydrodynamic Device for Cleaning the Inner Surfaces of Pipes. <i>Chemical Engineering and Technology</i> , 1999, 22, 523-526.	0.9	1
47	The vapour pressures over saturated aqueous solutions of dl-2-aminobutyric acid, 4-aminobutyric acid, sodium-d-gluconate, sodium hippurate, and potassium magnesium-l-aspartate. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 906-908.	1.0	1
48	DFT and Empirical Considerations on Electrocatalytic Water/Carbon Dioxide Reduction by CoTMPyP in Neutral Aqueous Solutions**. <i>ChemPhysChem</i> , 2020, 21, 2644-2650.	1.0	1