John Newman

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ext. citations
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 7.18
L-index

#	Paper	IF	Citations
334	Modeling of Galvanostatic Charge and Discharge of the Lithium/Polymer/Insertion Cell. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 1526-1533	3.9	2031
333	Simulation and Optimization of the Dual Lithium Ion Insertion Cell. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 1-10	3.9	1167
332	Comparison of Modeling Predictions with Experimental Data from Plastic Lithium Ion Cells. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1890-1903	3.9	972
331	The Impact of Elastic Deformation on Deposition Kinetics at Lithium/Polymer Interfaces. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A396	3.9	924
330	Porous-electrode theory with battery applications. AICHE Journal, 1975, 21, 25-41	3.6	749
329	Vapor-liquid equilibria in multicomponent aqueous solutions of volatile weak electrolytes. <i>AICHE Journal</i> , 1978 , 24, 966-976	3.6	577
328	Discharge Model for the Lithium Iron-Phosphate Electrode. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1517	3.9	565
327	Modeling transport in polymer-electrolyte fuel cells. <i>Chemical Reviews</i> , 2004 , 104, 4679-726	68.1	544
326	Resistance for Flow of Current to a Disk. <i>Journal of the Electrochemical Society</i> , 1966 , 113, 501	3.9	529
325	Water and Thermal Management in Solid-Polymer-Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 1218-1225	3.9	515
324	Dendrite Growth in Lithium/Polymer Systems. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1377	3.9	501
323	Stress generation and fracture in lithium insertion materials. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 293-319	2.6	479
322	The importance of the lithium ion transference number in lithium/polymer cells. <i>Electrochimica Acta</i> , 1994 , 39, 2073-2081	6.7	359
321	Effects of Microporous Layers in Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A677	3.9	343
320	Electrochemical removal of copper ions from very dilute solutions. <i>Journal of Applied Electrochemistry</i> , 1972 , 2, 113-122	2.6	318
319	Design of an Electrochemical Cell Making Syngas (CO+H[sub 2]) from CO[sub 2] and H[sub 2]O Reduction at Room Temperature. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B42	3.9	308
318	Transport in Polymer-Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A311	3.9	308

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317	A Mathematical Model of Stress Generation and Fracture in Lithium Manganese Oxide. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1019	3.9	301
316	Relaxation Phenomena in Lithium-Ion-Insertion Cells. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 982-990	3.9	301
315	The Impedance Response of a Porous Electrode Composed of Intercalation Particles. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2930	3.9	290
314	Mass Transport in Gas-Diffusion Electrodes: A Diagnostic Tool for Fuel-Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 5-15	3.9	273
313	Desalting by Means of Porous Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 1971 , 118, 510	3.9	257
312	Heat-Generation Rate and General Energy Balance for Insertion Battery Systems. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2697-2704	3.9	232
311	Transport in Polymer-Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1008	3.9	231
310	The Effect of Interfacial Deformation on Electrodeposition Kinetics. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A880	3.9	228
309	The use of mathematical modeling in the design of lithium/polymer battery systems. <i>Electrochimica Acta</i> , 1995 , 40, 2191-2196	6.7	227
308	Modeling Two-Phase Behavior in PEFCs. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1715	3.9	216
307	Thermal Modeling of the Lithium/Polymer Battery: I . Discharge Behavior of a Single Cell. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3274-3281	3.9	216
306	A Mathematical Model for the Lithium-Ion Negative Electrode Solid Electrolyte Interphase. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1977	3.9	214
305	Thermal Modeling of Porous Insertion Electrodes. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A17	'6 .9	209
304	Experimental Determination of the Transport Number of Water in Nafion 117 Membrane. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 1332-1337	3.9	203
303	Comparison between computer simulations and experimental data for high-rate discharges of plastic lithium-ion batteries. <i>Journal of Power Sources</i> , 2000 , 88, 219-231	8.9	202
302	The Measurement of a Complete Set of Transport Properties for a Concentrated Solid Polymer Electrolyte Solution. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 1859-1868	3.9	199
301	Modeling of lithium-ion batteries. <i>Journal of Power Sources</i> , 2003 , 119-121, 838-843	8.9	194
300	Coupled Thermal and Water Management in Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A2205	3.9	174

299	Schmidt Number Correction for the Rotating Disk. <i>The Journal of Physical Chemistry</i> , 1966 , 70, 1327-13	28	171
298	Current Distribution on a Rotating Disk below the Limiting Current. <i>Journal of the Electrochemical Society</i> , 1966 , 113, 1235	3.9	170
297	Existence of Path-Dependence in the LiFePO[sub 4] Electrode. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A110		160
296	Two-Dimensional Modeling of Lithium Deposition during Cell Charging. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A390	3.9	158
295	Design and Optimization of a Natural Graphite/Iron Phosphate Lithium-Ion Cell. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1530	3.9	154
294	Computer Simulations of the Impedance Response of Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 99	3.9	152
293	Physicochemical properties and toxicities of hydrophobic piperidinium and pyrrolidinium ionic liquids. <i>Fluid Phase Equilibria</i> , 2007 , 261, 421-426	2.5	149
292	Cyclable Lithium and Capacity Loss in Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A8	183.9	145
291	Heats of mixing and of entropy in porous insertion electrodes. <i>Journal of Power Sources</i> , 2003 , 119-121, 844-849	8.9	140
290	Water-Nafion equilibria. absence of Schroeder's paradox. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10	01 6 6 + 73	139
289	Simulation of the Direct Methanol Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A718	3.9	139
288	Thermal Modeling of the Lithium/Polymer Battery: II . Temperature Profiles in a Cell Stack. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3282-3288	3.9	137
287	Experiments on and Modeling of Positive Electrodes with Multiple Active Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A606	3.9	136
286	Negative Transference Numbers in Poly(ethylene oxide)-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E3569-E3575	3.9	135
285	Comparison of lithium-polymer cell performance with unity and nonunity transference numbers. Journal of Power Sources, 2000 , 89, 132-138	8.9	134
284	Modeling Side Reactions in Composite Li y Mn2 O 4 Electrodes. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 990-998	3.9	122
283	Thermodynamics of aqueous solutions containing volatile weak electrolytes. <i>AICHE Journal</i> , 1975 , 21, 248-259	3.6	108
282	Optimization of Porosity and Thickness of a Battery Electrode by Means of a Reaction-Zone Model.		

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281	Frequency Dispersion in Capacity Measurements at a Disk Electrode. <i>Journal of the Electrochemical Society</i> , 1970 , 117, 198	3.9	107
280	Double-Layer Capacitance in a Dual Lithium Ion Insertion Cell. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 4360-4365	3.9	103
279	Modeling a Porous Intercalation Electrode with Two Characteristic Particle Sizes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 4201-4208	3.9	101
278	Measurement of the Entropy of Reaction as a Function of State of Charge in Doped and Undoped Lithium Manganese Oxide. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A570	3.9	100
277	The Influence of Side Reactions on the Performance of Electrochemical Double-Layer Capacitors. Journal of the Electrochemical Society, 1996 , 143, 1806-1814	3.9	91
276	Potential and Current Distribution in Electrochemical Cells: Interpretation of the Half-Cell Voltage Measurements as a Function of Reference-Electrode Location. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 1961-1968	3.9	91
275	Modeling the performance of rechargeable lithium-based cells: design correlations for limiting cases. <i>Journal of Power Sources</i> , 1995 , 54, 46-51	8.9	89
274	A Flow-Through Porous Electrode Model: Application to Metal-Ion Removal from Dilute Streams. <i>Journal of the Electrochemical Society</i> , 1977 , 124, 1528-1540	3.9	88
273	Transport in Polymer-Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A326	3.9	87
272	The Modulated Flow at a Rotating Disk Electrode. <i>Journal of the Electrochemical Society</i> , 1983 , 130, 20	16;202	6 85
272 271	The Modulated Flow at a Rotating Disk Electrode. <i>Journal of the Electrochemical Society</i> , 1983 , 130, 20. Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle Operation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A664	16 ,202 3.9	6 8 ₅ 8 ₃
	Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle		
271	Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle Operation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A664		83
271	Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle Operation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A664 Mathematical Modeling of Lithium Batteries 2002 , 345-392	3.9	8 ₃
271 270 269	Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle Operation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A664 Mathematical Modeling of Lithium Batteries 2002 , 345-392 Restricted diffusion in binary solutions. <i>AICHE Journal</i> , 1973 , 19, 343-348 Numerical Solution of Coupled, Ordinary Differential Equations. <i>Industrial & Engineering Chemistry</i>	3.9	8 ₃ 8 ₃ 8 ₃
271 270 269 268	Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle Operation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A664 Mathematical Modeling of Lithium Batteries 2002 , 345-392 Restricted diffusion in binary solutions. <i>AICHE Journal</i> , 1973 , 19, 343-348 Numerical Solution of Coupled, Ordinary Differential Equations. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1968 , 7, 514-517 Optimization of Lithium Titanate Electrodes for High-Power Cells. <i>Journal of the Electrochemical</i>	3.9	8 ₃ 8 ₃ 8 ₃
271 270 269 268 267	Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle Operation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A664 Mathematical Modeling of Lithium Batteries 2002 , 345-392 Restricted diffusion in binary solutions. <i>AICHE Journal</i> , 1973 , 19, 343-348 Numerical Solution of Coupled, Ordinary Differential Equations. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1968 , 7, 514-517 Optimization of Lithium Titanate Electrodes for High-Power Cells. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A560 Molecular Dynamics Simulations of Multicomponent Diffusion. 1. Equilibrium Method. <i>Journal of</i>	3.9 3.6	8 ₃ 8 ₃ 8 ₃ 8 ₂ 8 ₁

263	Analysis of Transference Number Measurements Based on the Potentiostatic Polarization of Solid Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3465-3468	3.9	80
262	Review: An Economic Perspective on Liquid Solar Fuels. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1722-A1729	3.9	78
261	Modeling of Nickel/Metal Hydride Batteries. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3818-38	33 3.9	78
260	The Use of UV/vis Absorption to Measure Diffusion Coefficients in LiPF[sub 6] Electrolytic Solutions. <i>Journal of the Electrochemical Society</i> , 2008 , 155, F13	3.9	78
259	ENGINEERING DESIGN OF ELECTROCHEMICAL SYSTEMS. <i>Industrial and Engineering Chemistry</i> , 1968 , 60, 12-27		76
258	A theoretical study of membrane constraint in polymer-electrolyte fuel cells. <i>AICHE Journal</i> , 2004 , 50, 3215-3226	3.6	74
257	Anodic Dissolution of Iron in Acidic Sulfate Electrolytes: II . Mathematical Model of Current Oscillations Observed under Potentiostatic Conditions. <i>Journal of the Electrochemical Society</i> , 1987 , 134, 1051-1059	3.9	74
256	Free-Convection Mass Transfer with a Supporting Electrolyte. <i>Journal of the Electrochemical Society</i> , 1971 , 118, 1070	3.9	72
255	Mechanical Deformation of a Lithium-Metal Anode Due to a Very Stiff Separator. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1350-A1359	3.9	71
254	Relationship between Steady-State Current in Symmetric Cells and Transference Number of Electrolytes Comprising Univalent and Multivalent Ions. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2720-A2722	3.9	71
253	Analysis of Electrochemical Lithiation and Delithiation Kinetics in Silicon. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A394-A403	3.9	71
252	A quick method of measuring the capacity versus discharge rate for a dual lithium-ion insertion cell undergoing cycling. <i>Journal of Power Sources</i> , 1994 , 52, 211-216	8.9	69
251	Simulation of the Direct Methanol Fuel Cell. Journal of the Electrochemical Society, 2002, 149, A710	3.9	67
250	Equilibrium and diffusion of methanol and water in a nafion 117 membrane. <i>AICHE Journal</i> , 2000 , 46, 2076-2085	3.6	67
249	Double layer structure at the limiting current. <i>Transactions of the Faraday Society</i> , 1967 , 63, 207		67
248	Hysteresis during Cycling of Nickel Hydroxide Active Material. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A969	3.9	66
247	High-power batteries for use in hybrid vehicles. <i>Journal of Power Sources</i> , 2000 , 85, 229-236	8.9	65
246	Silicon Deposition on a Rotating Disk. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 744-752	3.9	64

245	Simulation of the Direct Methanol Fuel Cell. Journal of the Electrochemical Society, 2002, 149, A729	3.9	62
244	Equilibrium Force Isotherms of a Deformable Bubble/Drop Interacting with a Solid Particle across a Thin Liquid Film. <i>Langmuir</i> , 2001 , 17, 116-130	4	61
243	Experimental Investigation of a Porous Carbon Electrode for the Removal of Mercury from Contaminated Brine. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 1850-1859	3.9	61
242	Mathematical Modeling of CO[sub 2] Reduction to CO in Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1902	3.9	60
241	Measuring the Salt Activity Coefficient in Lithium-Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A458	3.9	59
240	Simulation of Recombinant Lead-Acid Batteries. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3081-	-33091	58
239	Predictions of Specific Energies and Specific Powers of Double-Layer Capacitors Using a Simplified Model. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 820	3.9	56
238	Current Distributions on Plane, Parallel Electrodes in Channel Flow. <i>Journal of the Electrochemical Society</i> , 1970 , 117, 43	3.9	56
237	Experimental and Theoretical Investigation of Solid-Electrolyte-Interphase Formation Mechanisms on Glassy Carbon. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1775-A1785	3.9	55
236	Periodic Behavior in the Iron/Sulfuric Acid System. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 377	79 . 377	9 ₅₄
235	Negative Stefan-Maxwell Diffusion Coefficients and Complete Electrochemical Transport Characterization of Homopolymer and Block Copolymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2766-A2773	3.9	54
234	A transformation for the treatment of diffusion and migration. Application to stationary disk and hemisphere electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 314, 23-44		53
233	On the Short-Time Behavior of Porous Intercalation Electrodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3057-3063	3.9	51
232	Optimizing the Performance of Lithium Titanate Spinel Paired with Activated Carbon or Iron Phosphate. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A253	3.9	51
231	Electrochemical Characterization of SEI-Type Passivating Films Using Redox Shuttles. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A530	3.9	50
230	Extension of the Le[veque Solution. Journal of Heat Transfer, 1969, 91, 177-178	1.8	50
229	Harvesting Waste Heat in Unipolar Ion Conducting Polymers. ACS Macro Letters, 2016 , 5, 94-98	6.6	49
228	Molecular Dynamics Simulations of Surface Tensions of Aqueous Electrolytic Solutions. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9077-9084	3.4	49

227	Proton Intercalation Hysteresis in Charging and Discharging Nickel Hydroxide Electrodes. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2769-2779	3.9	48
226	Maximum Effective Capacity in an Ohmically Limited Porous Electrode. <i>Journal of the Electrochemical Society</i> , 1975 , 122, 1482-1485	3.9	48
225	Dynamic Monte Carlo Simulations of Diffusion in Li y Mn2 O 4. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3765-3772	3.9	47
224	Engineering Analysis of Shape Change in Zinc Secondary Electrodes: I. Theoretical. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1616-1627	3.9	47
223	Mass transfer at high Ptlet numbers for creeping flow in a packed-bed reactor. <i>AICHE Journal</i> , 1977 , 23, 255-263	3.6	47
222	Effect of Ionic Migration on Limiting Currents. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1966 , 5, 525-529		47
221	Equilibrium configurations of liquid droplets on solid surfaces under the influence of thin-film forces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 156, 137-144	5.1	46
220	Modeling of a Growing Oxide Film: The Iron/Iron Oxide System. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 1423-1430	3.9	46
219	Current Oscillations Observed within the Limiting Current Plateau for Iron in Sulfuric Acid. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 2093-2097	3.9	46
218	Mathematical Modeling of the Lithium-Aluminum, Iron Sulfide Battery: I . Galvanostatic Discharge Behavior. <i>Journal of the Electrochemical Society</i> , 1981 , 128, 491-502	3.9	46
217	The polarized diffuse double layer. <i>Transactions of the Faraday Society</i> , 1965 , 61, 2229		46
216	Verification and Analysis of Transference Number Measurements by the Galvanostatic Polarization Method. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 3036	3.9	45
215	Molecular Simulation of Disjoining-Pressure Isotherms for Free Liquid, Lennard-Jones Thin Films. Journal of Physical Chemistry B, 2002 , 106, 6529-6537	3.4	44
214	Mass Transfer in Concentrated Binary Electrolytes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1965 , 69, 608-612		44
213	Molecular Dynamics Simulations of Multicomponent Diffusion. 2. Nonequilibrium Method. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18362-18367	3.4	43
212	Simulation of temperature rise in Li-ion cells at very high currents. <i>Journal of Power Sources</i> , 2014 , 271, 444-454	8.9	42
211	Effect of Graphite Orientation and Lithium Salt on Electronic Passivation of Highly Oriented Pyrolytic Graphite. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A634-A641	3.9	42
210	Anodic Dissolution of Iron in Acidic Sulfate Electrolytes: I . Formation and Growth of a Porous Salt Film. <i>Journal of the Electrochemical Society</i> , 1986 , 133, 59-69	3.9	42

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209	Ohmic Potential Measured by Interrupter Techniques. <i>Journal of the Electrochemical Society</i> , 1970 , 117, 507	3.9	42	
208	Whither solar fuels?. Current Opinion in Chemical Engineering, 2012, 1, 204-210	5.4	41	
207	Temperature Rise in a Battery Module with Constant Heat Generation. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 1054-1057	3.9	41	
206	Theoretical Analysis of the Discharge Performance of a NiOOH / H 2 Cell. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 54-64	3.9	41	
205	Experimental Determination of the Passive-Active Transition for Iron in 1M Sulfuric Acid. <i>Journal of the Electrochemical Society</i> , 1983 , 130, 547-553	3.9	41	
204	Mathematical Modeling of CO[sub 2] Reduction to CO in Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1911	3.9	40	
203	Mass Transfer and Kinetic Phenomena at the Nickel Hydroxide Electrode. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 3860-3874	3.9	39	
202	Thermoelectric effects in electrochemical systems. <i>Industrial & Engineering Chemistry Research</i> , 1995 , 34, 3208-3216	3.9	38	
201	Cold Start of a Polymer-Electrolyte Fuel Cell I. Development of a Two-Dimensional Model. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B927	3.9	37	
200	Variable Diffusivity in Intercalation Materials: A Theoretical Approach. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1287-1292	3.9	37	
199	Rapid aging and dynamic surface tension of dilute aqueous solutions. <i>Chemical Engineering Science</i> , 1971 , 26, 817-827	4.4	37	
198	Scaling with Ohm's Law; Wired vs. Wireless Photoelectrochemical Cells. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F309-F311	3.9	36	
197	Calculation of the streaming potential near a rotating disk. <i>Langmuir</i> , 2006 , 22, 9765-9	4	36	
196	II. A combined model for determining capacity usage and battery size for hybrid and plug-in hybrid electric vehicles. <i>Journal of Power Sources</i> , 2008 , 183, 771-782	8.9	35	
195	Equilibrium configurations of liquid droplets on solid surfaces under the influence of thin-film forces: Part II. Shape calculations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 156, 525-546	5.1	34	
194	Engineering Analysis of Shape Change in Zinc Secondary Electrodes: II . Experimental. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1628-1637	3.9	34	
193	Molecular simulation of the surface tension of simple aqueous electrolytes and the Gibbs adsorption equation. <i>Current Opinion in Colloid and Interface Science</i> , 2004 , 9, 145-148	7.6	32	
192	Mass Transfer to a Rotating Disk in Transition Flow. <i>Journal of the Electrochemical Society</i> , 1976 , 123, 1687-1691	3.9	32	

191	The Transient Response of a Disk Electrode. <i>Journal of the Electrochemical Society</i> , 1973 , 120, 1339	3.9	32
190	Comparing Cycling Characteristics of Symmetric Lithium-Polymer-Lithium Cells with Theoretical Predictions. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3186-A3194	3.9	32
189	Transient Characterization of Solid-Electrolyte-Interphase Using Ferrocene. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A281-A289	3.9	31
188	On converting from the McMillan-Mayer framework I. Single-solvent system. <i>Fluid Phase Equilibria</i> , 1998 , 145, 255-268	2.5	31
187	Double-Layer Capacity Determination of Porous Electrodes. <i>Journal of the Electrochemical Society</i> , 1975 , 122, 70-74	3.9	31
186	Application of the limiting current method to mass transfer in packed beds at very low reynolds numbers. <i>AICHE Journal</i> , 1976 , 22, 979-984	3.6	31
185	Retardation of falling drops. Chemical Engineering Science, 1967, 22, 83-85	4.4	31
184	Note. The kouteck[correction to the ilkovilequation. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1967 , 15, 309-312		31
183	Modeling Diffusion and Migration in Dilute Electrochemical Systems Using the Quasi-Potential Transformation. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 414-420	3.9	30
182	Electrochemical Removal of Silver Ions from Photographic Fixing Solutions Using a Porous Flow-Through Electrode. <i>Journal of the Electrochemical Society</i> , 1977 , 124, 706-708	3.9	30
181	Anisotropic Ion Diffusion and Electrochemically Driven Transport in Nanostructured Block Copolymer Electrolytes. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1537-1544	3.4	29
180	Mathematical Modeling of Lithium(alloy), Iron Disulfide Cells. <i>Journal of the Electrochemical Society</i> , 1987 , 134, 1309-1318	3.9	29
179	A comparison between flow-through and flow-by porous electrodes for redox energy storage. <i>Electrochimica Acta</i> , 1981 , 26, 455-469	6.7	29
178	Current Distribution on a Plane Electrode below the Limiting Current. <i>Journal of the Electrochemical Society</i> , 1969 , 116, 169	3.9	29
177	Limiting Current on a Rotating Disk with Radial Diffusion. <i>Journal of the Electrochemical Society</i> , 1971 , 118, 1079	3.9	29
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