John Newman

List of Publications by Year in Descending Order

334 papers	25,578 citations	76 h-index	154 g-index
358 ext. papers	28,286 ext. citations	4.3 avg, IF	7.18 L-index

#	Paper	IF	Citations
334	Increased Donnan exclusion in charged polymer networks at high salt concentrations.. *Soft Matter*, **2021**,	3.6	3
333	Turbulent Flow past a Flat Plate at Zero Incidence. *Russian Journal of Electrochemistry*, **2021**, 57, 743-756	1.2	1
332	Viscous Sublayer. *Russian Journal of Electrochemistry*, **2020**, 56, 263-269	1.2	2
331	New Perspectives on Turbulence. *Russian Journal of Electrochemistry*, **2020**, 56, 795-808	1.2	2
330	Turbulent Flow with the Inner Cylinder Rotating. *Russian Journal of Electrochemistry*, **2019**, 55, 44-51	1.2	1
329	Further Thoughts on Turbulent Flow in a Pipe. *Russian Journal of Electrochemistry*, **2019**, 55, 34-43	1.2	4
328	Theoretical Interpretation of Ion Velocities in Concentrated Electrolytes Measured by Electrophoretic NMR. *Journal of the Electrochemical Society*, **2019**, 166, A264-A267	3.9	7
327	Anisotropic Ion Diffusion and Electrochemically Driven Transport in Nanostructured Block Copolymer Electrolytes. *Journal of Physical Chemistry B*, **2018**, 122, 1537-1544	3.4	29
326	The Energy Future. *Annual Review of Chemical and Biomolecular Engineering*, **2018**, 9, 153-174	8.9	13
325	Calculus of Variations **2018**, 181-197		
324	Disk Electrode in an Insulating Plane **2018**, 95-101		
323	Similarity Transformations **2018**, 119-124		
322	Migration in Rapid Double-Layer Charging **2018**, 141-146		
321	Comparing Cycling Characteristics of Symmetric Lithium-Polymer-Lithium Cells with Theoretical Predictions. *Journal of the Electrochemical Society*, **2018**, 165, A3186-A3194	3.9	32
320	Comparing Two Electrochemical Approaches for Measuring Transference Numbers in Concentrated Electrolytes. *Journal of the Electrochemical Society*, **2018**, 165, A3014-A3021	3.9	23
319	Negative Stefan-Maxwell Diffusion Coefficients and Complete Electrochemical Transport Characterization of Homopolymer and Block Copolymer Electrolytes. *Journal of the Electrochemical Society*, **2018**, 165, A2766-A2773	3.9	54
318	Application of the dissipation theorem to turbulent flow and mass transfer in a pipe. *Russian Journal of Electrochemistry*, **2017**, 53, 1061-1075	1.2	4

317	Negative Transference Numbers in Poly(ethylene oxide)-Based Electrolytes. *Journal of the Electrochemical Society*, **2017**, 164, E3569-E3575	3.9	135
316	Determination of Effective Heat-Transfer Coefficient for Dualfoil, Based on Full-Scale Cylindrical and Prismatic Cells. *Journal of the Electrochemical Society*, **2017**, 164, E3686-E3689	3.9	
315	Harvesting Waste Heat in Unipolar Ion Conducting Polymers. *ACS Macro Letters*, **2016**, 5, 94-98	6.6	49
314	Theoretical Analysis of Turbulent Mass Transfer with Rotating Cylinders. *Journal of the Electrochemical Society*, **2016**, 163, E191-E198	3.9	5
313	Relationship between Steady-State Current in Symmetric Cells and Transference Number of Electrolytes Comprising Univalent and Multivalent Ions. *Journal of the Electrochemical Society*, **2015**, 162, A2720-A2722	3.9	71
312	Nonequilibrium Linear Response Theory: Application to Onsager–Stefan–Maxwell Diffusion. *Industrial & Engineering Chemistry Research*, **2015**, 54, 4460-4467	3.9	7
311	An Integrated 1-Dimensional Model of a Photoelectrochemical Cell for Water Splitting. *Journal of the Electrochemical Society*, **2014**, 161, E3328-E3340	3.9	28
310	Simulation of temperature rise in Li-ion cells at very high currents. *Journal of Power Sources*, **2014**, 271, 444-454	8.9	42
309	Mechanical Deformation of a Lithium-Metal Anode Due to a Very Stiff Separator. *Journal of the Electrochemical Society*, **2014**, 161, A1350-A1359	3.9	71
308	Modeling Lithium Movement over Multiple Cycles in a Lithium-Metal Battery. *Journal of the Electrochemical Society*, **2014**, 161, A948-A954	3.9	19
307	Water Electrolysis with a Homogeneous Catalyst in an Electrochemical Cell. *Journal of the Electrochemical Society*, **2013**, 160, F1143-F1150	3.9	5
306	Analysis of Electrochemical Lithiation and Delithiation Kinetics in Silicon. *Journal of the Electrochemical Society*, **2013**, 160, A394-A403	3.9	71
305	Scaling with Ohm's Law; Wired vs. Wireless Photoelectrochemical Cells. *Journal of the Electrochemical Society*, **2013**, 160, F309-F311	3.9	36
304	Crossover in a Homogeneous-Catalyst Reactor. *Journal of the Electrochemical Society*, **2013**, 160, F395-F400	3.9	3
303	Review: An Economic Perspective on Liquid Solar Fuels. *Journal of the Electrochemical Society*, **2012**, 159, A1722-A1729	3.9	78
302	Experimental and Theoretical Investigation of Solid-Electrolyte-Interphase Formation Mechanisms on Glassy Carbon. *Journal of the Electrochemical Society*, **2012**, 159, A1775-A1785	3.9	55
301	Separation of Double-Layer Charging and Faradaic Processes at Electrodes: Figure 1.. *Journal of the Electrochemical Society*, **2012**, 159, E59-E61	3.9	21
300	Whither solar fuels?. *Current Opinion in Chemical Engineering*, **2012**, 1, 204-210	5.4	41

299	Lithium Redistribution in Lithium-Metal Batteries. *Journal of the Electrochemical Society*, **2012**, 159, A1615-A1628	3.9	28
298	Transient Characterization of Solid-Electrolyte-Interphase Using Ferrocene. *Journal of the Electrochemical Society*, **2012**, 159, A281-A289	3.9	31
297	Steady-State Diffusion Coefficients for Water in Nafion in the Absence of Inert Gas. *Journal of the Electrochemical Society*, **2012**, 159, B754-B760	3.9	3
296	Effect of Graphite Orientation and Lithium Salt on Electronic Passivation of Highly Oriented Pyrolytic Graphite. *Journal of the Electrochemical Society*, **2012**, 159, A634-A641	3.9	42
295	Why is the Solid-Electrolyte-Interphase Selective? Through-Film Ferrocenium Reduction on Highly Oriented Pyrolytic Graphite. *Journal of the Electrochemical Society*, **2012**, 159, A1922-A1927	3.9	27
294	Cold-Start Modeling of a Polymer-Electrolyte Fuel Cell Containing an Ultrathin Cathode. *ECS Transactions*, **2011**, 41, 201-220	1	
293	Cold Start of a Polymer-Electrolyte Fuel Cell III. Optimization of Operational and Configurational Parameters. *Journal of the Electrochemical Society*, **2011**, 158, B948	3.9	9
292	Cold-Start Modeling of a Polymer-Electrolyte Fuel Cell Containing an Ultrathin Cathode. *Journal of the Electrochemical Society*, **2011**, 158, B1142	3.9	19
291	Cold Start of a Polymer-Electrolyte Fuel Cell I. Development of a Two-Dimensional Model. *Journal of the Electrochemical Society*, **2011**, 158, B927	3.9	37
290	Electrochemical Characterization of SEI-Type Passivating Films Using Redox Shuttles. *Journal of the Electrochemical Society*, **2011**, 158, A530	3.9	50
289	Cold Start of a Polymer-Electrolyte Fuel Cell II. Model Verification Using Parametric Studies. *Journal of the Electrochemical Society*, **2011**, 158, B939	3.9	11
288	Mathematical Modeling of CO[sub 2] Reduction to CO in Aqueous Electrolytes. *Journal of the Electrochemical Society*, **2010**, 157, B1911	3.9	40
287	Two-Dimensional Model for Cold Start in a Polymer-Electrolyte-Membrane Fuel Cell. *ECS Transactions*, **2010**, 33, 1545-1559	1	3
286	Mathematical Modeling of CO[sub 2] Reduction to CO in Aqueous Electrolytes. *Journal of the Electrochemical Society*, **2010**, 157, B1902	3.9	60
285	Battery Size and Capacity Use in Hybrid and Plug-In Hybrid Electric Vehicles **2010**, 429-461		
284	Water Movement During Freezing in a Polymer-Electrolyte-Membrane Fuel Cell. *ECS Transactions*, **2009**, 16, 285-296	1	7
283	Onsager's shortcut to proper forces and fluxes. *Chemical Engineering Science*, **2009**, 64, 4804-4809	4.4	10
282	Stefan–Maxwell mass transport. *Chemical Engineering Science*, **2009**, 64, 4796-4803	4.4	8

281	Two-Dimensional Modeling of Lithium Deposition during Cell Charging. *Journal of the Electrochemical Society*, **2009**, 156, A390	3.9	158
280	Experiments on and Modeling of Positive Electrodes with Multiple Active Materials for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2009**, 156, A606	3.9	136
279	Using a Quasi-Potential Transformation for Modeling Diffusion Media in Polymer-Electrolyte Fuel Cells. *SIAM Journal on Applied Mathematics*, **2009**, 70, 488-509	1.8	8
278	A Combination Model for Macroscopic Transport in Polymer-Electrolyte Membranes. *Topics in Applied Physics*, **2009**, 157-198	0.5	3
277	Modeling Water Management in Polymer-Electrolyte Fuel Cells. *Modern Aspects of Electrochemistry*, **2008**, 1-143		1
276	Modeling the Performance of Lithium-Ion Batteries and Capacitors during Hybrid-Electric-Vehicle Operation. *Journal of the Electrochemical Society*, **2008**, 155, A664	3.9	83
275	Modeling Side Reactions and Nonisothermal Effects in Nickel Metal-Hydride Batteries. *Journal of the Electrochemical Society*, **2008**, 155, A48	3.9	24
274	Design of an Electrochemical Cell Making Syngas (CO+H[sub 2]) from CO[sub 2] and H[sub 2]O Reduction at Room Temperature. *Journal of the Electrochemical Society*, **2008**, 155, B42	3.9	308
273	Mathematical Modeling of a Cation-Exchange Membrane Containing Two Cations. *Journal of the Electrochemical Society*, **2008**, 155, B1210	3.9	17
272	Measuring the Salt Activity Coefficient in Lithium-Battery Electrolytes. *Journal of the Electrochemical Society*, **2008**, 155, A458	3.9	59
271	Optimizing the Performance of Lithium Titanate Spinel Paired with Activated Carbon or Iron Phosphate. *Journal of the Electrochemical Society*, **2008**, 155, A253	3.9	51
270	Simulation of Pulse Discharge of the Li□F[sub x] System. *Journal of the Electrochemical Society*, **2008**, 155, A24	3.9	7
269	The Use of UV/vis Absorption to Measure Diffusion Coefficients in LiPF[sub 6] Electrolytic Solutions. *Journal of the Electrochemical Society*, **2008**, 155, F13	3.9	78
268	I. A simplified model for determining capacity usage and battery size for hybrid and plug-in hybrid electric vehicles. *Journal of Power Sources*, **2008**, 183, 376-380	8.9	7
267	II. A combined model for determining capacity usage and battery size for hybrid and plug-in hybrid electric vehicles. *Journal of Power Sources*, **2008**, 183, 771-782	8.9	35
266	Water-Nafion equilibria. absence of Schroeder's paradox. *Journal of Physical Chemistry B*, **2007**, 111, 10166-73	3.4	139
265	Physicochemical properties and toxicities of hydrophobic piperidinium and pyrrolidinium ionic liquids. *Fluid Phase Equilibria*, **2007**, 261, 421-426	2.5	149
264	Simulation of the Li□F[sub x] System. *Journal of the Electrochemical Society*, **2007**, 154, A477	3.9	14

263	Effects of Membrane- and Catalyst-Layer-Thickness Nonuniformities in Polymer-Electrolyte Fuel Cells. *Journal of the Electrochemical Society*, **2007**, 154, B405	3.9	26
262	Macroscopic Modeling of Polymer-Electrolyte Membranes **2007**, 47-117		13
261	Coupled Thermal and Water Management in Polymer Electrolyte Fuel Cells. *Journal of the Electrochemical Society*, **2006**, 153, A2205	3.9	174
260	Calculation of the streaming potential near a rotating disk. *Langmuir*, **2006**, 22, 9765-9	4	36
259	Existence of Path-Dependence in the LiFePO[sub 4] Electrode. *Electrochemical and Solid-State Letters*, **2006**, 9, A110		160
258	Optimization of Lithium Titanate Electrodes for High-Power Cells. *Journal of the Electrochemical Society*, **2006**, 153, A560	3.9	81
257	A Mathematical Model of Stress Generation and Fracture in Lithium Manganese Oxide. *Journal of the Electrochemical Society*, **2006**, 153, A1019	3.9	301
256	Onsager Reciprocal Relations for Stefan Maxwell Diffusion. *Industrial & Engineering Chemistry Research*, **2006**, 45, 5361-5367	3.9	18
255	Stress generation and fracture in lithium insertion materials. *Journal of Solid State Electrochemistry*, **2006**, 10, 293-319	2.6	479
254	Comparison of LiFePO[sub 4] from Different Sources. *Journal of the Electrochemical Society*, **2005**, 152, A664	3.9	80
253	The Impact of Elastic Deformation on Deposition Kinetics at Lithium/Polymer Interfaces. *Journal of the Electrochemical Society*, **2005**, 152, A396	3.9	924
252	Modeling gas-phase flow in porous media. *International Communications in Heat and Mass Transfer*, **2005**, 32, 855-860	5.8	14
251	Characterization of an electroactive polymer for overcharge protection in secondary lithium batteries. *Electrochimica Acta*, **2005**, 50, 4666-4673	6.7	19
250	Effects of Microporous Layers in Polymer Electrolyte Fuel Cells. *Journal of the Electrochemical Society*, **2005**, 152, A677	3.9	343
249	Cyclable Lithium and Capacity Loss in Li-Ion Cells. *Journal of the Electrochemical Society*, **2005**, 152, A818	3.9	145
248	Modeling Two-Phase Behavior in PEFCs. *Journal of the Electrochemical Society*, **2004**, 151, A1715	3.9	216
247	Modeling the Behavior of Electroactive Polymers for Overcharge Protection of Lithium Batteries. *Journal of the Electrochemical Society*, **2004**, 151, A509	3.9	22
246	A theoretical study of membrane constraint in polymer-electrolyte fuel cells. *AICHE Journal*, **2004**, 50, 3215-3226	3.6	74

245	Modeling Transport in Polymer-Electrolyte Fuel Cells. *ChemInform*, **2004**, 35, no		2
244	Molecular simulation of the surface tension of simple aqueous electrolytes and the Gibbs adsorption equation. *Current Opinion in Colloid and Interface Science*, **2004**, 9, 145-148	7.6	32
243	Discharge Model for the Lithium Iron-Phosphate Electrode. *Journal of the Electrochemical Society*, **2004**, 151, A1517	3.9	565
242	Transport in Polymer-Electrolyte Membranes. *Journal of the Electrochemical Society*, **2004**, 151, A311	3.9	308
241	Monte Carlo Simulations of Disjoining-Pressure Isotherms for Lennard□Jones Surfactant-Stabilized Free Thin Films. *Journal of Physical Chemistry B*, **2004**, 108, 13412-13418	3.4	8
240	Molecular Dynamics Simulations of Surface Tensions of Aqueous Electrolytic Solutions. *Journal of Physical Chemistry B*, **2004**, 108, 9077-9084	3.4	49
239	Transport in Polymer-Electrolyte Membranes. *Journal of the Electrochemical Society*, **2004**, 151, A326	3.9	87
238	A Mathematical Model for the Lithium-Ion Negative Electrode Solid Electrolyte Interphase. *Journal of the Electrochemical Society*, **2004**, 151, A1977	3.9	214
237	Design and Optimization of a Natural Graphite/Iron Phosphate Lithium-Ion Cell. *Journal of the Electrochemical Society*, **2004**, 151, A1530	3.9	154
236	The Effect of Interfacial Deformation on Electrodeposition Kinetics. *Journal of the Electrochemical Society*, **2004**, 151, A880	3.9	228
235	Modeling transport in polymer-electrolyte fuel cells. *Chemical Reviews*, **2004**, 104, 4679-726	68.1	544
234	Molecular Dynamics Simulations of Multicomponent Diffusion. 1. Equilibrium Method. *Journal of Physical Chemistry B*, **2004**, 108, 18353-18361	3.4	81
233	Molecular Dynamics Simulations of Multicomponent Diffusion. 2. Nonequilibrium Method. *Journal of Physical Chemistry B*, **2004**, 108, 18362-18367	3.4	43
232	Thermal Modeling of Porous Insertion Electrodes. *Journal of the Electrochemical Society*, **2003**, 150, A176	3.9	209
231	Evaluation of DLVO theory with disjoining-pressure and film-conductance measurements of common-black films stabilized with sodium dodecyl sulfate. *Journal of Colloid and Interface Science*, **2003**, 262, 442-55	9.3	24
230	Modeling of lithium-ion batteries. *Journal of Power Sources*, **2003**, 119-121, 838-843	8.9	194
229	Heats of mixing and of entropy in porous insertion electrodes. *Journal of Power Sources*, **2003**, 119-121, 844-849	8.9	140
228	Molecular Simulation of Disjoining-Pressure Isotherms for Free Aqueous Thin Films. *Journal of Physical Chemistry B*, **2003**, 107, 13076-13083	3.4	26

227	Dendrite Growth in Lithium/Polymer Systems. *Journal of the Electrochemical Society*, **2003**, 150, A1377	3.9	501
226	Transport in Polymer-Electrolyte Membranes. *Journal of the Electrochemical Society*, **2003**, 150, A1008	3.9	231
225	A less expensive Ewald lattice sum. *Chemical Physics Letters*, **2002**, 366, 537-543	2.5	20
224	Simulation of the Direct Methanol Fuel Cell. *Journal of the Electrochemical Society*, **2002**, 149, A729	3.9	62
223	Monte Carlo Simulation of the Open-Circuit Potential and the Entropy of Reaction in Lithium Manganese Oxide. *Journal of the Electrochemical Society*, **2002**, 149, A493	3.9	17
222	Simulation of the Direct Methanol Fuel Cell. *Journal of the Electrochemical Society*, **2002**, 149, A718	3.9	139
221	Simulation of the Direct Methanol Fuel Cell. *Journal of the Electrochemical Society*, **2002**, 149, A710	3.9	67
220	Mathematical Modeling of Lithium Batteries **2002**, 345-392		83
219	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
218	Phase equilibria for water–methanol mixtures in perfluorosulfonic-acid membranes. *AICHE Journal*, **2001**, 47, 445-452	3.6	6
217	Transient linear stability of a Simons-process gas–liquid electrochemical flow reactor using numerical simulations. *Chemical Engineering Science*, **2001**, 56, 5815-5834	4.4	6
216	Cathodic Protection for Disks of Various Diameters. *Journal of the Electrochemical Society*, **2001**, 148, B157	3.9	2
215	Measurement of the Entropy of Reaction as a Function of State of Charge in Doped and Undoped Lithium Manganese Oxide. *Journal of the Electrochemical Society*, **2001**, 148, A570	3.9	100
214	Hysteresis during Cycling of Nickel Hydroxide Active Material. *Journal of the Electrochemical Society* , **2001**, 148, A969	3.9	66
213	Equilibrium Force Isotherms of a Deformable Bubble/Drop Interacting with a Solid Particle across a Thin Liquid Film. *Langmuir*, **2001**, 17, 116-130	4	61
212	Modeling of a Two-Phase Electrochemical Reactor for the Fluorination of Organic Compounds. 2. Multiple Steady States. *Industrial & Engineering Chemistry Research*, **2001**, 40, 3117-3126	3.9	4
211	Modeling of a Two-Phase Electrochemical Reactor for the Fluorination of Organic Compounds. 1. Maximum Production Rate. *Industrial & Engineering Chemistry Research*, **2001**, 40, 3109-3116	3.9	3
210	Equilibrium and diffusion of methanol and water in a nafion 117 membrane. *AICHE Journal*, **2000**, 46, 2076-2085	3.6	67

209	Comparison of lithium-polymer cell performance with unity and nonunity transference numbers. *Journal of Power Sources*, **2000**, 89, 132-138	8.9	134
208	High-power batteries for use in hybrid vehicles. *Journal of Power Sources*, **2000**, 85, 229-236	8.9	65
207	Comparison between computer simulations and experimental data for high-rate discharges of plastic lithium-ion batteries. *Journal of Power Sources*, **2000**, 88, 219-231	8.9	202
206	The Impedance Response of a Porous Electrode Composed of Intercalation Particles. *Journal of the Electrochemical Society*, **2000**, 147, 2930	3.9	290
205	Predictions of Specific Energies and Specific Powers of Double-Layer Capacitors Using a Simplified Model. *Journal of the Electrochemical Society*, **2000**, 147, 820	3.9	56
204	Verification and Analysis of Transference Number Measurements by the Galvanostatic Polarization Method. *Journal of the Electrochemical Society*, **2000**, 147, 3036	3.9	45
203	Computer Simulations of the Impedance Response of Lithium Rechargeable Batteries. *Journal of the Electrochemical Society*, **2000**, 147, 99	3.9	152
202	Dynamic Monte Carlo Simulations of Diffusion in Li y Mn2 O 4. *Journal of the Electrochemical Society* , **1999**, 146, 3765-3772	3.9	47
201	Equilibrium configurations of liquid droplets on solid surfaces under the influence of thin-film forces. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1999**, 156, 137-144	5.1	46
200	Equilibrium configurations of liquid droplets on solid surfaces under the influence of thin-film forces: Part II. Shape calculations. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1999**, 156, 525-546	5.1	34
199	Double-Layer Capacitance in a Dual Lithium Ion Insertion Cell. *Journal of the Electrochemical Society*, **1999**, 146, 4360-4365	3.9	103
198	Proton Intercalation Hysteresis in Charging and Discharging Nickel Hydroxide Electrodes. *Journal of the Electrochemical Society*, **1999**, 146, 2769-2779	3.9	48
197	Surface Conductivity and Disjoining Pressure of Common Black Films Stabilized with Sodium Dodecyl Sulfate. *Journal of Colloid and Interface Science*, **1998**, 203, 69-82	9.3	7
196	On converting from the McMillan-Mayer framework I. Single-solvent system. *Fluid Phase Equilibria*, **1998**, 145, 255-268	2.5	31
195	Profiles and Performance Curves in a Parallel-Plate Reactor for the Electrochemical Fluorination of Hydrocarbons. *Journal of the Electrochemical Society*, **1998**, 145, 1578-1585	3.9	4
194	Mass Transfer and Kinetic Phenomena at the Nickel Hydroxide Electrode. *Journal of the Electrochemical Society*, **1998**, 145, 3860-3874	3.9	39
193	Mass Transport in Gas-Diffusion Electrodes: A Diagnostic Tool for Fuel-Cell Cathodes. *Journal of the Electrochemical Society*, **1998**, 145, 5-15	3.9	273
192	Modeling Side Reactions in Composite Li y Mn2 O 4 Electrodes. *Journal of the Electrochemical Society*, **1998**, 145, 990-998	3.9	122

191	On the Short-Time Behavior of Porous Intercalation Electrodes. *Journal of the Electrochemical Society*, **1997**, 144, 3057-3063	3.9	51
190	Cathodic Protection of a Plane with Parallel Cylindrical Anodes. *Journal of the Electrochemical Society*, **1997**, 144, 450-454	3.9	3
189	Segment density of a block copolymer chain tethered at both ends. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 4355-4370		2
188	Simulation of Recombinant Lead-Acid Batteries. *Journal of the Electrochemical Society*, **1997**, 144, 3081-3091	3.9	58
187	Temperature Dependence of the Diffusion Coefficient of Sulfuric Acid in Water. *Journal of the Electrochemical Society*, **1997**, 144, 1302-1307	3.9	7
186	Modeling a Porous Intercalation Electrode with Two Characteristic Particle Sizes. *Journal of the Electrochemical Society*, **1997**, 144, 4201-4208	3.9	101
185	Heat-Generation Rate and General Energy Balance for Insertion Battery Systems. *Journal of the Electrochemical Society*, **1997**, 144, 2697-2704	3.9	232
184	Modeling of Nickel/Metal Hydride Batteries. *Journal of the Electrochemical Society*, **1997**, 144, 3818-3831	3.9	78
183	Comparison of Modeling Predictions with Experimental Data from Plastic Lithium Ion Cells. *Journal of the Electrochemical Society*, **1996**, 143, 1890-1903	3.9	972
182	Variable Diffusivity in Intercalation Materials: A Theoretical Approach. *Journal of the Electrochemical Society*, **1996**, 143, 1287-1292	3.9	37
181	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
180	Electrostatic Protein-Protein Interactions: Comparison of Point-Dipole and Finite-Length Dipole Potentials of Mean Force. *Journal of Colloid and Interface Science*, **1996**, 177, 276-279	9.3	19
179	Thermal Modeling of the Lithium/Polymer Battery: II . Temperature Profiles in a Cell Stack. *Journal of the Electrochemical Society*, **1995**, 142, 3282-3288	3.9	137
178	Electrochemical Conversion of Anhydrous HCl to Cl2 Using a Solid-Polymer-Electrolyte Electrolysis Cell. *Journal of the Electrochemical Society*, **1995**, 142, 3619-3625	3.9	26
177	The Electrical Conductivity of Sodium Polysulfide Melts. *Journal of the Electrochemical Society*, **1995** , 142, 761-764	3.9	5
176	Periodic Behavior in the Iron/Sulfuric Acid System. *Journal of the Electrochemical Society*, **1995**, 142, 3770-3779	3.9	54
175	Analysis of Transference Number Measurements Based on the Potentiostatic Polarization of Solid Polymer Electrolytes. *Journal of the Electrochemical Society*, **1995**, 142, 3465-3468	3.9	80
174	The Measurement of a Complete Set of Transport Properties for a Concentrated Solid Polymer Electrolyte Solution. *Journal of the Electrochemical Society*, **1995**, 142, 1859-1868	3.9	199

173	Temperature Rise in a Battery Module with Constant Heat Generation. *Journal of the Electrochemical Society*, **1995**, 142, 1054-1057	3.9	41
172	Thermal Modeling of the Lithium/Polymer Battery: I . Discharge Behavior of a Single Cell. *Journal of the Electrochemical Society*, **1995**, 142, 3274-3281	3.9	216
171	Thermoelectric effects in electrochemical systems. *Industrial & Engineering Chemistry Research*, **1995**, 34, 3208-3216	3.9	38
170	Modeling of a Growing Oxide Film: The Iron/Iron Oxide System. *Journal of the Electrochemical Society*, **1995**, 142, 1423-1430	3.9	46
169	Optimization of Porosity and Thickness of a Battery Electrode by Means of a Reaction-Zone Model. *Journal of the Electrochemical Society*, **1995**, 142, 97-101	3.9	107
168	The use of mathematical modeling in the design of lithium/polymer battery systems. *Electrochimica Acta*, **1995**, 40, 2191-2196	6.7	227
167	Modeling the performance of rechargeable lithium-based cells: design correlations for limiting cases. *Journal of Power Sources*, **1995**, 54, 46-51	8.9	89
166	Metal Hydride Electrodes. *Modern Aspects of Electrochemistry*, **1995**, 359-382		8
165	Magnetic Field Effects in High-Power Batteries: II . Time Constant of a Radial Circuit Terminated by a Cylindrical Cell with Inductance. *Journal of the Electrochemical Society*, **1994**, 141, 708-713	3.9	1
164	A quick method of measuring the capacity versus discharge rate for a dual lithium-ion insertion cell undergoing cycling. *Journal of Power Sources*, **1994**, 52, 211-216	8.9	69
163	The importance of the lithium ion transference number in lithium/polymer cells. *Electrochimica Acta*, **1994**, 39, 2073-2081	6.7	359
162	Theoretical Analysis of the Discharge Performance of a NiOOH / H 2 Cell. *Journal of the Electrochemical Society*, **1994**, 141, 54-64	3.9	41
161	Relaxation Phenomena in Lithium-Ion-Insertion Cells. *Journal of the Electrochemical Society*, **1994**, 141, 982-990	3.9	301
160	Simulation and Optimization of the Dual Lithium Ion Insertion Cell. *Journal of the Electrochemical Society*, **1994**, 141, 1-10	3.9	1167
159	Magnetic Field Effects in High-Power Batteries: I . The Penetration of an Electric Field into a Cylindrical Conductor. *Journal of the Electrochemical Society*, **1994**, 141, 703-708	3.9	2
158	Water and Thermal Management in Solid-Polymer-Electrolyte Fuel Cells. *Journal of the Electrochemical Society*, **1993**, 140, 1218-1225	3.9	515
157	Modeling Diffusion and Migration in Dilute Electrochemical Systems Using the Quasi-Potential Transformation. *Journal of the Electrochemical Society*, **1993**, 140, 414-420	3.9	30
156	Modeling of Galvanostatic Charge and Discharge of the Lithium/Polymer/Insertion Cell. *Journal of the Electrochemical Society*, **1993**, 140, 1526-1533	3.9	2031

155	Potential and Current Distribution in Electrochemical Cells: Interpretation of the Half-Cell Voltage Measurements as a Function of Reference-Electrode Location. *Journal of the Electrochemical Society*, **1993**, 140, 1961-1968	3.9	91
154	Dependent-Variable Transformation for the Treatment of Diffusion, Migration, and Homogeneous Reactions: Application to a Corroding Pit. *Journal of the Electrochemical Society*, **1993**, 140, 2530-2537	3.9	21
153	Diffusion of Sulfuric Acid in Concentrated Solutions. *Journal of the Electrochemical Society*, **1993**, 140, 2217-2221	3.9	18
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