

CITATION REPORT

List of articles citing

AC Impedance Analysis of Polycrystalline Insertion Electrodes: Application to $\text{Li}_{1-x}\text{CoO}_2$

DOI: 10.1149/1.2114158

Journal of the Electrochemical Society, 1985, 132, 1521-1528.

Source: <https://exaly.com/paper-pdf/17840696/citation-report.pdf>

Version: 2024-04-09

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
273	Oxidation potentials of electrolyte solutions for lithium cells. <i>Electrochimica Acta</i> , 1988 , 33, 47-50	6.7	53
272	Studies of the interface between V ₆ O ₁₃ and poly(ethylene oxide) based electrolytes. <i>Electrochimica Acta</i> , 1988 , 33, 1669-1674	6.7	27
271	Lithium Insertion Compounds. 1988 , 135, 391		17
270	Defect thiospinels: a new class of reversible cathode material. 1989 , 26, 277-283		3
269	Anodic oxidation of propylene carbonate on platinum, glassy carbon and polypyrrole. 1989 , 263, 37-48		34
268	A model for the corrosion behavior of dental amalgams. 1989 , 23, 241-52		5
267	Host structure modification upon lithium intercalation in transition metal chalcogenides. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1989 , 3, 73-79	3.1	10
266	Sodium intercalation into WO ₂ Cl ₂ . 1990 , 89, 202-207		6
265	The influence of water on the oxidation of propylene carbonate on platinum—An electrochemical, in situ FT-ir and on-line MS study. <i>Electrochimica Acta</i> , 1991 , 36, 1397-1402	6.7	43
264	Polymer electrolyte lithium batteries rechargeability and positive electrode degradation: An AC impedance study. 1991 , 21, 301-307		18
263	Frequency dependent conductivity, microwave dielectric relaxation and proton dynamics. 1992 , 389-408		3
262	The mechanism of electrointercalation. 1992 , 322, 93-105		86
261	Studies of spinel LiCr _x Mn _{2-2x} O ₄ for secondary lithium battery. 1993 , 44, 539-546		24
260	Electrochemical study of poly(vinyl chloride)/polypyrrole blends. <i>Electrochimica Acta</i> , 1994 , 39, 1393-1400	10.7	8
259	The interfacial impedance variation of V ₆ O ₁₃ composite electrodes during lithium insertion and extraction. <i>Electrochimica Acta</i> , 1995 , 40, 673-679	6.7	8
258	Effects of lithium content on the electrochemical lithium intercalation reaction into LiNiO ₂ and LiCoO ₂ electrodes. 1995 , 56, 25-30		108
257	Synthesis and properties of LiNiO ₂ as cathode material for secondary batteries. 1995 , 54, 209-213		125

256	Cycle-life improvement of LiLiCoO ₂ batteries. 1995 , 54, 316-318		9
255	Low-temperature cobalt oxide as rechargeable cathodic material for lithium batteries. 1995 , 54, 373-377		41
254	Studies of electrochemical properties of lithium cobalt oxide. 1995 , 54, 491-493		17
253	Electrochemical oxidation of propylene carbonate (containing various salts) on aluminium electrodes. 1995 , 57, 119-123		67
252	The ac impedance study of electrochemical lithium intercalation into porous vanadium oxide electrode. <i>Electrochimica Acta</i> , 1996 , 41, 919-925	6.7	74
251	An electrochemical investigation into the lithium insertion properties of Li _x CoO ₂ . <i>Electrochimica Acta</i> , 1996 , 41, 2481-2488	6.7	91
250	Electrochemical properties and performance of poly(acrylonitrile)-based polymer electrolyte for Li/LiCoO ₂ cells. 1996 , 62, 21-26		18
249	Soft chemical synthesis and characterization of lithium nickel oxide electrode materials. 1996 , 31, 6449-6454		6
248	Solid-state chemistry of lithium power sources□ 1997 , 1817		130
247	Electrochemically Active Polymers for Rechargeable Batteries. 1997 , 97, 207-282		1375
246	Electrochemical characterization of a lithiated mixed nickel-cobalt oxide (LiNi _{0.5} Co _{0.5} O ₂) prepared by sol-gel process. <i>Ionics</i> , 1997 , 3, 390-395	2.7	12
245	A study of the electrochemical lithium intercalation behavior of porous LiNiO ₂ electrodes prepared by solid-state reaction and sol-gel methods. 1998 , 72, 83-90		46
244	Application of Electrochemical Quartz Crystal Microbalance Technique to Hydrogen/Lithium Insertion into MnO ₂ /LiCoO ₂ Electrode in Aqueous/Non-aqueous Solution. 1998 , 4, 193-201		6
243	Electrochemical impedance spectroscopy analysis of chalcopyrite CuFeS ₂ electrodes. 1998 , 140, 177-182		17
242	Cathodic properties of a lithium-ion secondary battery using LiCoO ₂ prepared by a complex formation reaction. 1998 , 70, 70-77		28
241	Electrochemical investigation of CrO _{2.65} doped LiMn ₂ O ₄ as a cathode material for lithium-ion batteries. 1998 , 76, 81-90		115
240	Anodic oxidation of nonaqueous electrolytes on cathode materials and current collectors for rechargeable lithium batteries. 1999 , 81-82, 123-129		74
239	Electrochemical impedance spectroscopy study of SnO and nano-SnO anodes in lithium rechargeable batteries. 1999 , 81-82, 340-345		102

238	Synthesis, investigation and practical application in lithium batteries of some compounds based on vanadium oxides. 1999 , 80, 90-97		17
237	The kinetics of lithium transport through Li_1CoO_2 by theoretical analysis of current transient. <i>Electrochimica Acta</i> , 1999 , 45, 489-501	6.7	57
236	Morphology and Electrochemistry of Ruthenium/Carbon Aerogel Nanostructures. 1999 , 15, 799-806		168
235	Capacity fade of Li-ion cells: comparison of DC and ENREV charging protocols.		
234	SNIFTIRS investigation of the oxidative decomposition of organic-carbonate-based electrolytes for lithium-ion cells. <i>Electrochimica Acta</i> , 2000 , 45, 3589-3599	6.7	81
233	Studies on capacity fade of lithium-ion batteries. 2000 , 91, 122-129		214
232	Microwave synthesis of electrode materials for lithium batteries. 2000 , 23, 461-466		33
231	Kinetic Characterization of Single Particles of LiCoO_2 by AC Impedance and Potential Step Methods. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A422	3.9	211
230	Explicit analysis of impedance spectra related to thin films of spinel LiMn_2O_4 . 2001 , 93, 93-103		76
229	Symmetric cell approach and impedance spectroscopy of high power lithium-ion batteries. 2001 , 96, 321-328		284
228	The ac impedance studies for porous MnO_2 cathode by means of modified transmission line model. 2001 , 102, 270-276		36
227	Reactivity of lithium battery electrode materials toward non-aqueous electrolytes: spontaneous reactions at the electrode-electrolyte interface investigated by FTIR. 2001 , 103, 10-17		71
226	Studies on the cycle life of commercial lithium ion batteries during rapid charge-discharge cycling. 2001 , 102, 294-301		184
225	Changes in electronic structure by Li ion deintercalation in LiCoO_2 from cobalt L-edge and oxygen K-edge XANES. 2001 , 8, 872-3		30
224	Symmetric cell approach towards simplified study of cathode and anode behavior in lithium ion batteries. 2001 , 3, 44-47		37
223	Mechanisms of lithium transport through transition metal oxides studied by analysis of current transients. <i>Electrochimica Acta</i> , 2001 , 46, 897-906	6.7	29
222	Investigation of lithium transport through lithium cobalt dioxide thin film sputter-deposited by analysis of cyclic voltammogram. <i>Electrochimica Acta</i> , 2001 , 46, 2477-2485	6.7	24
221	Impedance study of $(\text{PEO})_{10}\text{LiClO}_4/\text{Al}_2\text{O}_3$ composite polymer electrolyte with blocking electrodes. <i>Electrochimica Acta</i> , 2001 , 46, 1829-1836	6.7	226

220	Enhanced Structural Stability and Cyclability of Al-Doped LiMn_2O_4 Spinel Synthesized by the Emulsion Drying Method. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A482	3.9	171
219	Surface Analysis of LiMn_2O_4 Electrodes in Carbonate-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A69	3.9	173
218	The Behavior of Polypyrrole-Coated Electrodes in Propylene Carbonate Solutions. <i>Journal of the Electrochemical Society</i> , 2002 , 149, E204	3.9	24
217	Calendar- and cycle-life studies of advanced technology development program generation 1 lithium-ion batteries. 2002 , 110, 445-470		131
216	An analysis of rechargeable lithium-ion batteries after prolonged cycling. <i>Electrochimica Acta</i> , 2002 , 47, 1899-1911	6.7	192
215	Electrochemical investigation of LiMn_2O_4 cathodes in gel electrolyte at various temperatures. <i>Electrochimica Acta</i> , 2002 , 48, 171-179	6.7	15
214	Experimental and theoretical analysis of LiMn_2O_4 cathodes for use in rechargeable lithium batteries by electrochemical impedance spectroscopy (EIS). <i>Electrochimica Acta</i> , 2002 , 47, 1747-1759	6.7	111
213	Lithium transport through a sol-gel derived LiMn_2O_4 film electrode: analyses of potentiostatic current transient and linear sweep voltammogram by Monte Carlo simulation. <i>Electrochimica Acta</i> , 2002 , 47, 2843-2855	6.7	31
212	Lithium transport through the Li_2CoO_2 film electrode prepared by RF magnetron sputtering. 2002 , 527, 93-102		26
211	Analysis of cell impedance measured on the LiMn_2O_4 film electrode by PITT and EIS with Monte Carlo simulation. 2002 , 528, 114-120		29
210	An electrochemical impedance spectroscopy study of new lithiated manganese oxides for 3 V application in rechargeable Li-batteries. <i>Electrochimica Acta</i> , 2003 , 48, 891-900	6.7	35
209	EIS and GITT studies on oxide cathodes, $\text{O}_2\text{-Li}(2/3)+x(\text{Co}_{0.15}\text{Mn}_{0.85})\text{O}_2$ ($x=0$ and $1/3$). <i>Electrochimica Acta</i> , 2003 , 48, 2691-2703	6.7	153
208	Fabrication of thin film electrodes for all solid state rechargeable lithium batteries. 2003 , 559, 69-75		29
207	In situ Raman spectroscopic study of thin-film $\text{Li}_2\text{Mn}_2\text{O}_4$ electrodes. 2003 , 156, 301-307		23
206	LiCoO_2 and LiMn_2O_4 Thin-Film Electrodes for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A107	3.9	80
205	Performance Improvement of Surface-Modified LiCoO_2 Cathode Materials: An Infrared Absorption and X-Ray Photoelectron Spectroscopic Investigation. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A199	3.9	74
204	Mechanism of Electrochemical Activity in Li_2MnO_3 . <i>Chemistry of Materials</i> , 2003 , 15, 1984-1992	9.6	415
203	Lithium Hectorite Clay as the Ionic Conductor in LiCoO_2 Cathodes. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A933	3.9	16

202	Electrochemical Kinetic Studies of Li-Ion in O ₂ -Structured Li _{2/3} (Ni _{1/3} Mn _{2/3})O ₂ and Li _{(2/3)+x} (Ni _{1/3} Mn _{2/3})O ₂ by EIS and GITT. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1	3.9	114
201	Mechanisms of Lithium Transport through Transition Metal Oxides and Carbonaceous Materials. 2004 , 255-301		
200	Saturated linear dicarboxylic acids as chelating agents for the sol-gel synthesis of LiNi _{0.8} Co _{0.2} O ₂ . <i>Materials Chemistry and Physics</i> , 2004 , 87, 246-255	4.4	23
199	In situ analysis of high temperature characteristics of prismatic polymer lithium - ion batteries. 2004 , 34, 1103-1112		14
198	A study on lithium transport through fractal Li _{1-x} CoO ₂ film electrode by analysis of current transient based upon fractal theory. <i>Electrochimica Acta</i> , 2004 , 49, 2551-2562	6.7	26
197	The cathode-electrolyte interface in the Li-ion battery. <i>Electrochimica Acta</i> , 2004 , 50, 397-403	6.7	692
196	Investigation of electrical and electrochemical properties of PVDF-based polymer electrolytes. 2004 , 132, 229-234		76
195	Preparation and characterization of nanosized lithium cobalt oxide powders for lithium-ion batteries. 2004 , 30, 1641-1645		7
194	Li ⁺ -Ion Diffusion in LiCoO ₂ Thin Film Prepared by the Poly(vinylpyrrolidone) Sol-Gel Method. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1406	3.9	77
193	Nonaqueous liquid electrolytes for lithium-based rechargeable batteries. 2004 , 104, 4303-417		4670
192	SPECTROSCOPIC STUDIES OF SOLID-ELECTROLYTE INTERPHASE ON POSITIVE AND NEGATIVE ELECTRODES FOR LITHIUM ION BATTERIES. 2004 , 140-197		1
191	Temperature effects on the electrochemical behavior of spinel LiMn ₂ O ₄ in quaternary ammonium-based ionic liquid electrolyte. 2005 , 109, 13676-84		64
190	Comparison of Electrochemical Behavior of LiCoO ₂ Thin Films Prepared by Sol-Gel and Sputtering Processes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A2229	3.9	36
189	Film Formation at Positive Electrodes in Lithium-Ion Batteries. 2005 , 8, A34		51
188	Expanding the Rate Capabilities of the LiNi _{0.5} Mn _{1.5} O ₄ Spinel by Exploiting the Synergistic Effect Between Nano and Microparticles. 2005 , 8, A641		39
187	Effect of an Alkyl Dicarboxylate on Li-Ion Cell Performance. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1963	3.9	18
186	Stoichiometric, Morphological, and Electrochemical Impact of the Phase Stability of Li _x CoO ₂ . <i>Journal of the Electrochemical Society</i> , 2005 , 152, A114	3.9	31
185	Electrochemical Properties of LiMn _{1-x} M _x O ₂ (M=Ni, Al, Mg) as Cathode Materials in Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A2273	3.9	11

184	Synthesis and Characterization of Novel, High-Capacity, Layered $\text{LiMn}_{0.9}\text{Ni}_{0.05}\text{Fe}_{0.05}\text{O}_2$ as a Cathode Material for Li-Ion Cells. 2005 , 8, A263		8
183	Alternating Current Impedance Electrochemical Modeling of Lithium-Ion Positive Electrodes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1409	3.9	117
182	Lithium-Ion Batteries: Thermal Reactions of Electrolyte with the Surface of Metal Oxide Cathode Particles. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1617	3.9	110
181	Effect of pore structure on anomalous behaviour of the lithium intercalation into porous V_2O_5 film electrode using fractal geometry concept. <i>Electrochimica Acta</i> , 2006 , 51, 2646-2655	6.7	20
180	Study of the lithium insertion/deinsertion mechanism in nanocrystalline Fe_2O_3 electrodes by means of electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2006 , 51, 6426-6434	6.7	37
179	Characterization of Zn- and Fe-substituted LiMnO_2 as cathode materials in Li-ion cells. 2006 , 161, 1307-1313		22
178	Study on Manganese Dioxide Discharge Using Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1332	3.9	19
177	Alternating Current Impedance Behavior and Overcharge Tolerance of Lithium-Ion Batteries Using Positive Temperature Coefficient Cathodes. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1004	3.9	15
176	CO_2 Gas Evolution on Cathode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A449	3.9	58
175	Analytical Expression for the Impedance Response of an Insertion Electrode Cell. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A43	3.9	44
174	Synthesis of $\text{Li}(\text{Co}_{0.8}\text{Ni}_{0.2}\text{Al}_y)\text{O}_2$ ($y=0.02$) by combustion method as a possible cathode material for lithium batteries. 2007 , 445-446, 657-662		4
173	Performance enhancement at low temperatures and in situ X-ray analyses of discharge reaction of $\text{Li}/(\text{CFx})_n$ cells. 2007 , 170, 179-184		16
172	Solid state rapid quenching method to synthesize micron size $\text{Li}_4\text{Ti}_5\text{O}_{12}$. 2007 , 18, 329-337		19
171	Investigation on cell impedance for high-power lithium-ion batteries. 2007 , 11, 1405-1410		16
170	An electrochemical impedance spectroscopic study of the electronic and ionic transport properties of LiCoO_2 cathode. 2007 , 52, 1187-1195		20
169	Electrochemical performance of LiCoO_2 cathodes by surface modification using lanthanum aluminum garnet. 2008 , 184, 392-401		30
168	Electrochemical performances for preferred oriented PLD thin-film electrodes of $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{O}_2$, LiFePO_4 and LiMn_2O_4 . 2008 , 179, 2011-2015		27
167	Electrochemical activity of rock-salt-structured $\text{LiFeO}_2/\text{Li}_4/3\text{Ti}_2/3\text{O}_2$ nanocomposites in lithium cells. 2008 , 10, 217-226		11

166	Li ₄ Ti ₂ .5Cr ₂ .5O ₁₂ as anode material for lithium battery. <i>Ionics</i> , 2008 , 14, 395-401	2.7	16
165	Synthesis and characterization of submicron size particles of LiMn ₂ O ₄ by microemulsion route. 2008 , 12, 1619-1627		18
164	Electrochemical kinetics study of Li-ion in Cu ₆ Sn ₅ electrode of lithium batteries by PITT and EIS. 2008 , 624, 161-166		30
163	Insights into the electrochemical activity of nanosized β -LiFeO ₂ . <i>Electrochimica Acta</i> , 2008 , 53, 6366-6376	6.7	34
162	Phenomenologically modeling the formation and evolution of the solid electrolyte interface on the graphite electrode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2008 , 53, 7069-7078	6.7	70
161	Electrochemical studies on cathode blends of LiMn ₂ O ₄ and Li[Li ₁ /15Ni ₁ /5Co ₂ /5Mn ₁ /3O ₂]. <i>Materials Chemistry and Physics</i> , 2008 , 111, 213-217	4.4	37
160	A Stoichiometric Nano-LiMn ₂ O ₄ Spinel Electrode Exhibiting High Power and Stable Cycling. <i>Chemistry of Materials</i> , 2008 , 20, 5557-5562	9.6	179
159	Li-ion diffusion in highly (003) oriented LiCoO ₂ thin film cathode prepared by pulsed laser deposition. 2008 , 449, 300-303		113
158	Analytical Expression for the Impedance Response for a Lithium-Ion Cell. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A893	3.9	39
157	Electrochemical studies of V ₂ O ₅ -CNTs nanocomposite. 2008 ,		
156	Microemulsion preparation and electrochemical characteristics of LiNi ₁ /3Co ₁ /3Mn ₁ /3O ₂ powders. 2009 , 189, 40-44		52
155	Synthesis and characterization of carbon-coated LiNi(1/3)Co(1/3)Mn(1/3)O ₂ in a single step by an inverse microemulsion route. 2009 , 1, 1241-9		100
154	Effects of Surface-Film Formation on the Electrochemical Characteristics of LiMn ₂ O ₄ Cathodes of Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A709	3.9	15
153	Synthesis, characterization and electrochemical behavior of the vanadium pentoxide/cetyl pyridinium chloride hybrid material. 2010 , 14, 305-312		3
152	Semiempirical Analysis of Time-Dependent Elementary Polarizations in Electrochemical Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A8	3.9	22
151	Single-Shot Preparation of Crystalline Nanoplate LiFePO ₄ by a Simple Polyol Route. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A824	3.9	16
150	Electrode/Electrolyte Interface Reactivity in High-Voltage Spinel LiMn _{1.6} Ni _{0.4} O ₄ /Li ₄ Ti ₅ O ₁₂ Lithium-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10999-11008	3.8	235
149	LiBOB as Electrolyte Salt or Additive for Lithium-Ion Batteries Based on LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ /Graphite. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A721	3.9	62

148	The failure mechanism of nano-sized Si-based negative electrodes for lithium ion batteries. 2011 , 21, 6201		275
147	Impedance Spectra of Nonhomogeneous, Multilayered Porous Composite Graphite Electrodes for Li-Ion Batteries: Experimental and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9210-9219	3.8	61
146	Direct Evidence of LiF Formation at Electrode/Electrolyte Interface by ^7Li and ^{19}F Double-Resonance Solid-State NMR Spectroscopy. 2011 , 14, A134		24
145	Synthesis and characterization of LiCoO_2 thin films prepared by the sol-gel method. 2011 , 13, 1232-1234		7
144	Thickness estimation of interface films formed on $\text{Li}_{1-x}\text{CoO}_2$ electrodes by hard X-ray photoelectron spectroscopy. 2011 , 196, 10679-10685		26
143	Surface layer formation on $\text{Li}_{1+x}\text{Mn}_2\text{O}_4$ thin film electrodes during electrochemical cycling. <i>Electrochimica Acta</i> , 2011 , 56, 8539-8544	6.7	12
142	Instantaneous measurement of the internal temperature in lithium-ion rechargeable cells. <i>Electrochimica Acta</i> , 2011 , 56, 6198-6204	6.7	107
141	Impedance Diagnostic for Overcharged Lithium-Ion Batteries. 2012 , 15, A53		35
140	Study of lithium ion intercalation/de-intercalation into $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ in aqueous solution using electrochemical impedance spectroscopy. 2012 , 16, 3011-3025		23
139	Electrochemical and electronic properties of LiCoO_2 cathode investigated by galvanostatic cycling and EIS. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2617-30	3.6	89
138	Li^+ -solvation/desolvation dictates interphasial processes on graphitic anode in Li ion cells. <i>Journal of Materials Research</i> , 2012 , 27, 2327-2341	2.5	122
137	Interfacial Reactions and Characteristics. 2012 , 195-230		1
136	Kinetics of lithium insertion into LiMnPO_4 from aqueous saturated LiOH : A study using galvanostatic and potentiostatic intermittent titration techniques. <i>Electrochimica Acta</i> , 2012 , 80, 269-281	6.7	13
135	Electrochemical impedance spectroscopy of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ and LiCoO_2 based half-cells and $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{LiCoO}_2$ cells: Internal interfaces and influence of state-of-charge and cycle number. 2012 , 226, 15-23		24
134	Diagnosis of Electrochemical Impedance Spectroscopy in Lithium-Ion Batteries. 2012 ,		26
133	Influence of the lithium salt electrolyte on the electrochemical performance of copper/ LiFePO_4 composites. <i>Electrochimica Acta</i> , 2012 , 61, 57-63	6.7	9
132	Study of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_{4-\delta}$ ($x = 0.10.25$) as cathode material for intermediate-temperature solid oxide fuel cells. 2012 , 16, 341-352		12
131	Electrolytes for Lithium-Ion Batteries with High-Voltage Cathodes. 2013 , 71-87		2

130	Mechanistic Basis of Enhanced Capacity Retention Found with Novel Sulfate-Based Additive in High-Voltage Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22619-22626	3.8	33
129	Mn(II) deposition on anodes and its effects on capacity fade in spinel lithium manganate-carbon systems. 2013 , 4, 2437		315
128	On the limited performances of sulfone electrolytes towards the LiNi _{0.4} Mn _{1.6} O ₄ spinel. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20900-10	3.6	17
127	Evolution of the LiFePO ₄ positive electrode interface along cycling monitored by MAS NMR. 2013 , 224, 50-58		25
126	High Li storage capacity of poorly crystalline porous γ -MnO ₂ prepared by hydrothermal route. 2013 , 703, 126-134		6
125	High capacity lithium-ion battery cathode using LiV ₃ O ₈ nanorods. <i>Electrochimica Acta</i> , 2013 , 99, 242-252	6.7	69
124	On the limited electroactivity of Li ₂ NiTiO ₄ nanoparticles in lithium batteries. <i>Electrochimica Acta</i> , 2013 , 100, 93-100	6.7	18
123	Evaluate Sulfone-Based Reduction Sensitive Electrolytes with Lithium Li ₄ Ti ₅ O ₁₂ /Li and Symmetric Li ₄ XTi ₅ O ₁₂ /Li ₄ Ti ₅ O ₁₂ Cells. 2013 , 53, 5-21		
122	Temperature and potential dependence electrochemical impedance studies of LiMn ₂ O ₄ . 2014 , 44, 61-71		4
121	Electrolytes for Lithium and Lithium-Ion Batteries. <i>Modern Aspects of Electrochemistry</i> , 2014 ,		100
120	Nano Aspects of Advanced Positive Electrodes for Lithium-Ion Batteries. 2014 , 23-30		1
119	Effects of ball milling on the crystal face of spinel LiMn ₂ O ₄ . 2014 , 4, 44525-44528		7
118	Recent progress in research on high-voltage electrolytes for lithium-ion batteries. 2014 , 15, 1956-69		182
117	Electrochemical stability of non-aqueous electrolytes for sodium-ion batteries and their compatibility with Na _{0.7} CoO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1987-98	3.6	175
116	Dynamics of Li ₄ Ti ₅ O ₁₂ /sulfone-based electrolyte interfaces in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5201-12	3.6	20
115	Expanding the Operational Limits of the Single-Point Impedance Diagnostic for Internal Temperature Monitoring of Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015 , 174, 488-493	6.7	60
114	Catalyst Ni-assisted synthesis of interweaved SiO ₂ /G/CNTs&CNFs composite as anode material for lithium-ion batteries. 2015 , 26, 7507-7514		10
113	Mechanism for improving the cycle performance of LiNi _{0.5} Mn _{1.5} O ₄ by RuO ₂ surface modification and increasing discharge cut-off potentials. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15457-15465	13	28

112	Effects of High-Rate Cycling on the Bulk Internal Pressure Rise and Capacity Degradation of Commercial LiCoO ₂ Cells. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A885-A891	3.9	13
111	Porous Flower-like β -Fe ₂ O ₃ Nanostructure: A High Performance Anode Material for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015 , 167, 330-339	6.7	67
110	Effects of temperature variation on Li x FePO ₄ /C (0. 2015 , 22, 2043-2051		
109	Electrode-electrolyte interface in Li-ion batteries: current understanding and new insights. 2015 , 6, 4653-72		623
108	Morphology-controlled two-step synthesis and electrochemical studies on hierarchically structured LiCoPO ₄ . 2015 , 48, 270-277		20
107	An electrochemical study of Fe _{1.18} Sb _{1.82} as negative electrode for sodium ion batteries. <i>Electrochimica Acta</i> , 2015 , 182, 11-19	6.7	16
106	. 2016 ,		1
105	Surface degradation of Li _{1-x} Ni _{0.80} Co _{0.15} Al _{0.05} O ₂ cathodes: Correlating charge transfer impedance with surface phase transformations. 2016 , 108, 263902		55
104	Effect of temperature and charge stand on performance of lithium-ion polymer pouch cell. <i>Journal of Energy Storage</i> , 2016 , 6, 239-247	7.8	7
103	Nanostructured Polymer Membranes: Applications, State-of-the-Art, New Challenges and Opportunities. 2016 , 1-25		1
102	Biopolymer Electrolytes for Energy Devices. 2016 , 311-355		5
101	Impedance Characteristics and Diagnoses of Automotive Lithium-Ion Batteries at 7.5% to 93.0% State of Charge. <i>Electrochimica Acta</i> , 2016 , 219, 751-765	6.7	33
100	Analysis of geometric and electrochemical characteristics of lithium cobalt oxide electrode with different packing densities. 2016 , 328, 46-55		25
99	Investigation of the Lithiation Mechanism of Fe ₃ O ₄ -Based Composite Anode: the Effect of the Carbon Matrix. 2016 , 1, 3979-3991		4
98	Characterization of the Cathode Electrolyte Interface in Lithium Ion Batteries by Desorption Electrospray Ionization Mass Spectrometry. 2016 , 88, 7171-7		50
97	The functional aqueous slurry coated separator using polyvinylidene fluoride powder particles for Lithium-ion batteries. 2017 , 786, 77-85		22
96	GeO Thin Film Deposition on Graphene Oxide by the Hydrogen Peroxide Route: Evaluation for Lithium-Ion Battery Anode. 2017 , 9, 9152-9160		39
95	Geometric and Electrochemical Characteristics of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ Electrode with Different Calendering Conditions. <i>Electrochimica Acta</i> , 2017 , 232, 431-438	6.7	30

94	Enhanced electrochemical performance of Na ₂ /3[Mn _{0.55} Ni _{0.30} Co _{0.15}]O ₂ positive electrode in sodium-ion batteries by functionalized multi-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2017 , 237, 29-36	6.7	21
93	Electrochemical Impedance Spectroscopy response study of a commercial graphite-based negative electrode for Li-ion batteries as function of the cell state of charge and ageing. <i>Electrochimica Acta</i> , 2017 , 223, 63-73	6.7	58
92	Naphthalene Diimide-Ethylene Conjugated Copolymer as Cathode Material for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A290-A294	3.9	17
91	Degradation Mechanism of Dimethyl Carbonate (DMC) Dissociation on the LiCoO Cathode Surface: A First-Principles Study. 2017 , 9, 36377-36384		8
90	Fast screening method to characterize lithium ion battery electrolytes by means of solid phase microextraction \rightarrow gas chromatography \rightarrow mass spectrometry. 2017 , 7, 46989-46998		22
89	Extending Newman's Pseudo-Two-Dimensional Lithium-Ion Battery Impedance Simulation Approach to Include the Nonlinear Harmonic Response. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E3311-E3320	3.9	27
88	Oxidation Decomposition Mechanism of Fluoroethylene Carbonate-Based Electrolytes for High-Voltage Lithium Ion Batteries: A DFT Calculation and Experimental Study. 2017 , 2, 7353-7361		26
87	Self-diffusion of electrolyte species in model battery electrodes using Magic Angle Spinning and Pulsed Field Gradient Nuclear Magnetic Resonance. 2017 , 362, 315-322		6
86	Elemental analysis of lithium ion batteries. 2017 , 32, 1833-1847		35
85	Chemical Reactivity Descriptor for the Oxide-Electrolyte Interface in Li-Ion Batteries. 2017 , 8, 3881-3887		66
84	Engineering the surface of LiCoO ₂ electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. 2017 , 10, 3754-3764		51
83	How Solid-Electrolyte Interphase Forms in Aqueous Electrolytes. 2017 , 139, 18670-18680		227
82	Influence of the Vinylene Carbonate on the Wetting and Interface Chemical Structure of Doped Ionic Liquid Electrolyte at Porous Graphite Surface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16166-16173	3.8	8
81	Influence of sol-gel precursors on the electrochemical performance of NaMn _{0.33} Ni _{0.33} Co _{0.33} O ₂ positive electrode for sodium-ion battery. <i>Ionics</i> , 2017 , 23, 645-653	2.7	6
80	Electrode-electrolyte interfaces in lithium-based batteries. 2018 , 11, 527-543		336
79	Fast Impedance Simulation of Lithium-Ion Batteries with Pseudo-Two Dimensional Electrochemical Models. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1324-A1337	3.9	5
78	Synthesis and Electrochemical Performance of Spheroid LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ in the Electrolyte Modified by Ethylene Sulfate and Methylene Methanedisulfonate. 2018 , 28, 731-737		4
77	Space-Charge Layers in All-Solid-State Batteries; Important or Negligible?. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5609-5618	6.1	32

76	Symmetric Cell Electrochemical Impedance Spectroscopy of Na ₂ FeP ₂ O ₇ Positive Electrode Material in Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26857-26864	3.8	21
75	Reaction Layer Formation and Charge Transfer at Li-Ion Cathode/Electrolyte Interfaces: Concepts and Results Obtained by a Surface Science Approach. 2018 , 232-245		4
74	The re-emergence of sodium ion batteries: testing, processing, and manufacturability. 2018 , 11, 23-33		54
73	Advances in Understanding Materials for Rechargeable Lithium Batteries by Atomic Force Microscopy. <i>Energy and Environmental Materials</i> , 2018 , 1, 28-40	13	53
72	Charge Transport in Single NCM Cathode Active Material Particles for Lithium-Ion Batteries Studied under Well-Defined Contact Conditions. <i>ACS Energy Letters</i> , 2019 , 4, 2117-2123	20.1	24
71	Identifying and Addressing Critical Challenges of High-Voltage Layered Ternary Oxide Cathode Materials. <i>Chemistry of Materials</i> , 2019 , 31, 6033-6065	9.6	90
70	Effect of electrode loading on the electrochemical performance of LiAl _{0.1} Mn _{1.9} O ₄ cathode for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2019 , 119, 110562	5.1	4
69	Controlling the chemical reactivity of nanostructured electrode materials by surface reactive sites. <i>Materials Research Express</i> , 2019 , 6, 095089	1.7	3
68	Novel Conjugated Side Chain Fluorinated Polymers Based on Fluorene for Light-Emitting and Ternary Flash Memory Devices. <i>ChemistryOpen</i> , 2019 , 8, 1267-1275	2.3	3
67	Pharmacokinetics of ceftiofur sodium in cats following a single intravenous and subcutaneous injection. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2019 , 42, 602-608	1.4	2
66	Effect of AlO on structural and dielectric properties of PVP-CHCOONa based solid polymer electrolyte films for energy storage devices. <i>Heliyon</i> , 2019 , 5, e02727	3.6	8
65	Critical Review of the Use of Reference Electrodes in Li-Ion Batteries: A Diagnostic Perspective. <i>Batteries</i> , 2019 , 5, 12	5.7	64
64	The electrochemical double layer and its impedance behavior in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 14753-14765	3.6	15
63	Chromatographic Techniques in the Research Area of Lithium Ion Batteries: Current State-of-the-Art. <i>Separations</i> , 2019 , 6, 26	3.1	31
62	Intercalation of Layered Materials from Bulk to 2D. <i>Advanced Materials</i> , 2019 , 31, e1808213	24	64
61	Rational design and kinetics study of flexible sodium-ion full batteries based on binder-free composite film electrodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9890-9902	13	20
60	Editors' Choice: Coating-Dependent Electrode-Electrolyte Interface for Ni-Rich Positive Electrodes in Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1022-A1030	3.9	27
59	Impedance of LiFe _{0.4} Mn _{0.6} PO ₄ Electrodes with Combined Conducting Polymer Binder of PEDOT:PSS and Carboxymethyl Cellulose. <i>Russian Journal of Electrochemistry</i> , 2019 , 55, 1047-1057	1.2	2

58	Effect of Particle Size and Electronic Percolation on Low-Temperature Performance in Lithium Titanate-Based Batteries. <i>ACS Omega</i> , 2019 , 4, 21048-21053	3.9	9
57	The Effect of Electrode-Electrolyte Interface on the Electrochemical Impedance Spectra for Positive Electrode in Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5090-A5098	3.9	102
56	Possible carbon-carbon bond formation during decomposition? Characterization and identification of new decomposition products in lithium ion battery electrolytes by means of SPME-GC-MS. <i>Electrochimica Acta</i> , 2019 , 295, 401-409	6.7	13
55	High-rate cycling performance and surface analysis of LiNi _{1-x} Co _x /2Mnx/2O ₂ (x=2/3, 0.4, 0.2) cathode materials. <i>Materials Chemistry and Physics</i> , 2019 , 222, 1-10	4.4	5
54	Quantitative Parameter Estimation, Model Selection, and Variable Selection in Battery Science. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 013501	3.9	12
53	A two-dimensional material for high capacity supercapacitors: S-doped graphene. <i>International Journal of Energy Research</i> , 2020 , 44, 1624-1635	4.5	29
52	Electrochemical Impedance Spectroscopy of Metal Oxide Electrodes for Energy Applications. <i>ACS Applied Energy Materials</i> , 2020 , 3, 66-98	6.1	207
51	Li-insertion into sol-gel Na _{0.44} MnO ₂ cathode material for higher structure and electrochemical performance of batteries. <i>Energy Storage</i> , 2020 , 2, e121	2.8	2
50	Atomic layer deposition of AlO on P2-NaMnCoO as interfacial layer for high power sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020 , 564, 467-477	9.3	14
49	Surface Modification of Li-Rich Mn-Based Layered Oxide Cathodes: Challenges, Materials, Methods, and Characterization. <i>Advanced Energy Materials</i> , 2020 , 10, 2002506	21.8	44
48	Analysis of Carbonate Decomposition During Solid Electrolyte Interphase Formation in Isotope-Labeled Lithium Ion Battery Electrolytes: Extending the Knowledge about Electrolyte Soluble Species. <i>Batteries and Supercaps</i> , 2020 , 3, 1183-1192	5.6	9
47	Precise Analysis of Resistance Components and Estimation of Number of Particles in Li-Ion Battery Electrode Sheets Using LiCoO ₂ Single-Particle Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16758-16762	3.8	0
46	Regulating the Performance of Lithium-Ion Battery Focus on the Electrode-Electrolyte Interface. <i>Frontiers in Chemistry</i> , 2020 , 8, 821	5	12
45	Hydroxyl terminated Poly(dimethylsiloxane) as an electrolyte additive to enhance the cycle performance of lithium-ion batteries. <i>Current Applied Physics</i> , 2020 ,	2.6	0
44	An Overview on the Advances of LiCoO ₂ Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2000982	21.8	123
43	Exploring lithium ion storage ability and cycling performance of the Cu ₂ SnSe ₄ nanoparticles encapsulated with nitrogen-doped carbon. <i>Applied Surface Science</i> , 2021 , 540, 148435	6.7	2
42	C-Na ₃ V _{1.96} Fe _{0.04} (PO ₄) ₃ /Fe ₂ P nanoclusters with stable charge-transfer interface for high-power sodium ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 404, 126974	14.7	10
41	High-voltage liquid electrolytes for Li batteries: progress and perspectives. <i>Chemical Society Reviews</i> , 2021 , 50, 10486-10566	58.5	77

- 40 High performance LATP thin film electrolytes for all-solid-state microbattery applications. *Journal of Materials Chemistry A*, **2021**, 9, 17760-17769 13 5
- 39 Review on physical impedance models in modern battery research. *Physical Chemistry Chemical Physics*, **2021**, 23, 12926-12944 3.6 12
- 38 Self-discharge in Li-ion aqueous batteries: A case study on LiMn2O4. *Electrochimica Acta*, **2021**, 373, 137847 8.7 8
- 37 One-step synthesized N-doped graphene-based electrode materials for supercapacitor applications. *Ionics*, **2021**, 27, 2241-2256 2.7 18
- 36 Preparation of different heteroatom doped graphene oxide based electrodes by electrochemical method and their supercapacitor applications. *Journal of Energy Storage*, **2021**, 35, 102328 7.8 35
- 35 Unveiling the Influence of Carbon Impurity on Recovered NCM622 Cathode Material. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6087-6096 8.3 5
- 34 Recent Advances of Mesoscale-Structured Cathode Materials for High Energy Density Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 2962-2975 6.1 6
- 33 Multiscale modeling of interface-mediated mechanical, thermal, and mass transport in heterogeneous materials: Perspectives and applications. *Journal of Materials Research*, **2021**, 36, 2601-2614 2.5 2
- 32 Review Use of Impedance Spectroscopy for the Estimation of Li-ion Battery State of Charge, State of Health and Internal Temperature. *Journal of the Electrochemical Society*, **2021**, 168, 080517 3.9 14
- 31 Li salt initiated in-situ polymerized solid polymer electrolyte: new insights via in-situ electrochemical impedance spectroscopy. *Chemical Engineering Journal*, **2022**, 429, 132483 14.7 4
- 30 Rational design of Na0.67Ni0.2Co0.2Mn0.6O2 microsphere cathode material for stable and low temperature sodium ion storage. *Chemical Engineering Journal*, **2022**, 428, 130990 14.7 10
- 29 Intercalation in oxides from 2D to 3D intercalation. *NATO ASI Series Series B: Physics*, **1987**, 209-232 9
- 28 Designing a Solid Electrolyte IV. Designing a Reversible Solid Electrode. *NATO ASI Series Series B: Physics*, **1990**, 213-232 7
- 27 Nonaqueous Electrolytes and Advances in Additives. *Modern Aspects of Electrochemistry*, **2014**, 167-207 6
- 26 Relations conductivité/microstructure dans des céramiques composites superconducteur (NASICON)/verre isolant. *Revue De Physique Appliquée*, **1987**, 22, 719-727 3
- 25 Electrochemical Properties of LiNi0.8Co0.16Al0.04O2 and Surface Modification with Co3(PO4)2 as Cathode Materials for Lithium Battery. *Bulletin of the Korean Chemical Society*, **2008**, 29, 1737-1741 1.2 5
- 24 Impedance of Lithium Ion Batteries I Basic Models and Differential Analysis. **2000**, 593-596
- 23 Materials for Electrodes: Crystalline Compounds. *Kluwer International Series in Engineering and Computer Science*, **1994**, 369-511

22	Interface between Transition Metal Oxide-Based Electrodes and Lithium Salts Electrolytes: A Physicochemical Approach. 2014 , 177-198		
21	Electronic Structure and Reactivity of Cathode/Liquid Electrolyte Interfaces. <i>SpringerBriefs in Physics</i> , 2020 , 35-54	0.6	
20	Charge transfer through interfaces in metal-ion intercalation systems. 2021 ,		
19	Impedance modelling of all-solid-state thin film batteries: influence of the reaction kinetics. <i>Journal of Materials Chemistry A</i> , 2021 , 10, 313-325	13	1
18	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrode-Electrolyte Interphase in Non-Aqueous Na-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 1701743	4.6	1
17	Multiscale and hierarchical reaction mechanism in a lithium-ion battery. <i>Chemical Physics Reviews</i> , 2022 , 3, 011305	4.4	4
16	Metal/Ion-Coupled Electron Transfer Kinetics in Intercalation-Based Transition Metal Oxides*. 2022 , 9-31		
15	Effect of High-Voltage Additives on Formation of Solid Electrolyte Interphases in Lithium-Ion Batteries. <i>Materials</i> , 2022 , 15, 3662	3.5	
14	Interfacial Polymerization-Modified Polyetherimide (PEI) Separator for LiD2 Battery with Boosted Performance. <i>ACS Applied Polymer Materials</i> ,	4.3	
13	Progress and perspective of high-voltage lithium cobalt oxide in lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022 ,	12	1
12	Understanding the Cathode/Electrolyte Interphase in Lithium-Ion Batteries. <i>Energy Technology</i> , 2020 , 12, 200421	3.5	1
11	Novel NiO surface coating on LiCoO2 cathode for Li-ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 283, 115775	3.1	0
10	Critical Review on cathode/Electrolyte Interphase Toward High-Voltage Cathodes for Li-Ion Batteries. 2022 , 14,		3
9	Toward the performance evolution of lithium-ion battery upon impact loading. 2022 , 432, 141192		0
8	Charge Transport Kinetics in Flower Like γ -MnO2 Nano-sheet and γ -MnO2 Nanowire Based Supercapacitors. 2022 , 139535		0
7	Understanding the impedance spectra of all-solid-state lithium battery cells with sulfide superionic conductors. 2023 , 556, 232450		0
6	Modified cathode-electrolyte interphase toward high-performance batteries. 2022 , 3, 101197		0
5	Structural Evolution of Mg-Doped Single-Crystal LiCoO2 Cathodes: Importance of Morphology and Mg-Doping Sites.		0

4	A Critical Review of Thermal Runaway Prediction and Early-Warning Methods for Lithium-Ion Batteries. 2023 , 4,	o
3	Exploring the thermal stability of lithium-ion cells via accelerating rate calorimetry: A review. 2023 , 81, 543-573	1
2	Lithium-Ion Batteries: Nomenclature of Interphases with Liquid or Solid-State Electrolytes. 2023 , 6,	o
1	Performance-based materials evaluation for Li batteries through impedance spectroscopy: a critical review. 2023 , 34, 101283	o