

# Hector D Abruna

## List of Publications by Year in Descending Order

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

348  
papers

30,423  
citations

85  
h-index

164  
g-index

359  
ext. papers

33,538  
ext. citations

9.6  
avg, IF

7.29  
L-index

#	Paper	IF	Citations
348	New insights into methanol and formic acid electro-oxidation on Pt: Simultaneous DEMS and ATR-SEIRAS study under well-defined flow conditions and simulations of CO spectra.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 034703	3.9	1
347	Nonprecious transition metal nitrides as efficient oxygen reduction electrocatalysts for alkaline fuel cells.. <i>Science Advances</i> , <b>2022</b> , 8, eabj1584	14.3	9
346	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	25
345	A completely precious metal-free alkaline fuel cell with enhanced performance using a carbon-coated nickel anode.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2119883119	11.5	2
344	Metal Monolayers on Command: Underpotential Deposition at Nanocrystal Surfaces: A Quantitative Operando Electrochemical Transmission Electron Microscopy Study. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1292-1297	20.1	1
343	Cobalt-electrocatalytic HAT for functionalization of unsaturated C=C bonds. <i>Nature</i> , <b>2022</b> , 605, 687-695	50.4	7
342	Understanding the Impacts of Li Stripping Overpotentials at the Counter Electrode by Three-Electrode Coin Cell Measurements. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15459-15467	7.8	2
341	Designing Synergistic Electrocatalysts for H <sub>2</sub> Oxidation and Evolution Reactions in Alkaline Media. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 7188-7203	3.8	3
340	Methanol Oxidation at Platinum in Alkaline Media: A Study of the Effects of Hydroxide Concentration and of Mass Transport. <i>ChemPhysChem</i> , <b>2021</b> , 22, 1397-1406	3.2	2
339	Epitaxial Thin-Film Spinel Oxides as Oxygen Reduction Electrocatalysts in Alkaline Media. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4006-4013	9.6	5
338	Lithium-Sulfur redox: challenges and opportunities. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 25, 1006527.2		5
337	Operando Methods in Electrocatalysis. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1136-1178	13.1	49
336	Performance optimization and fast rate capabilities of novel polymer cathode materials through balanced electronic and ionic transport. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5657-5663	13	6
335	Organic electrode materials for fast-rate, high-power battery applications. <i>Materials Reports Energy</i> , <b>2021</b> , 1, 100008		15
334	Anion Exchange and Water Dynamics in a Phosphonium-Based Alkaline Anion Exchange Membrane Material for Fuel Cells: An Electrochemical Quartz Crystal Microbalance Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10979-10986	9.5	4
333	Interface-Enhanced Catalytic Selectivity on the C <sub>2</sub> Products of CO <sub>2</sub> Electroreduction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2473-2482	13.1	27
332	Enhancement of the Oxygen Reduction Reaction Activity of Pt by Tuning Its d-Band Center via Transition Metal Oxide Support Interactions. <i>ACS Catalysis</i> , <b>2021</b> , 11, 9317-9332	13.1	21

331	A channel flow cell with double disk electrodes for oxygen electroreduction study at elevated temperatures and pressures: Theory. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 896, 115251	4.1	0
330	Electrochemical Screening of Metallic Oxygen Reduction Reaction Catalyst Thin Films Using Getter Cosputtering. <i>ACS Combinatorial Science</i> , <b>2020</b> , 22, 339-347	3.9	1
329	Multifunctional Electrocatalysts: RuM (M = Co, Ni, Fe) for Alkaline Fuel Cells and Electrolyzers. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4608-4616	13.1	40
328	An Innovative Lithium Ion Battery System Based on a CuS Anode Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17396-17405	9.5	11
327	Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS and Gold. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6112-6118	6.4	27
326	Combinatorial Studies of Palladium-Based Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3980-3988	16.4	43
325	Cross-linking Effects on Performance Metrics of Phenazine-Based Polymer Cathodes. <i>ChemSusChem</i> , <b>2020</b> , 13, 2428-2435	8.3	20
324	Enhancing the Electrocatalytic Activity of Pd/M (M = Ni, Mn) Nanoparticles for the Oxygen Reduction Reaction in Alkaline Media through Electrochemical Dealloying. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5891-5898	13.1	36
323	Single-phase Ru <sub>1-x</sub> Mn <sub>x</sub> Co <sub>y</sub> O <sub>2</sub> nanoparticles as highly effective oxygen reduction electrocatalysts in alkaline media with enhanced stability and fuel-tolerance. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 277, 119149	21.8	9
322	Ni-rich LiNi <sub>0.88</sub> Mn <sub>0.06</sub> Co <sub>0.06</sub> O <sub>2</sub> cathode interwoven by carbon fiber with improved rate capability and stability. <i>Journal of Power Sources</i> , <b>2020</b> , 447, 227344	8.9	12
321	Methanol Oxidation Using Ternary Ordered Intermetallic Electrocatalysts: A DEMS Study. <i>ACS Catalysis</i> , <b>2020</b> , 10, 770-776	13.1	20
320	Phenazine-Based Covalent Organic Framework Cathode Materials with High Energy and Power Densities. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16-20	16.4	125
319	Electron Tunneling through Boron Nitride Confirms Marcus-Hush Theory Predictions for Ultramicroelectrodes. <i>ACS Nano</i> , <b>2020</b> , 14, 993-1002	16.7	10
318	Regulating lithium nucleation and growth by zinc modified current collectors. <i>Nano Research</i> , <b>2020</b> , 13, 45-51	10	6
317	The Intricate Love Affairs between MoS <sub>2</sub> and Metallic Substrates. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2001324	4.6	4
316	Enhanced ORR Kinetics on Au-Doped PtCu Porous Films in Alkaline Media. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9967-9976	9.16	31
315	Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9977-9985	13.1	30
314	Activity-Stability Relationship in [email protected] Nanoparticles for Electrocatalysis. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2827-2834	20.1	22

313	Synergistic Bimetallic Metallic Organic Framework-Derived Pt-Co Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , <b>2020</b> , 14, 13069-13080	16.7	37
312	Revealing the atomic ordering of binary intermetallics using in situ heating techniques at multilength scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 1974-1983	11.5	64
311	Metal-Organic-Framework-Derived Co-Fe Bimetallic Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10744-10750	16.4	122
310	Elucidation of the electrochemical behavior of phenothiazine-based polyaromatic amines. <i>Tetrahedron</i> , <b>2019</b> , 75, 4244-4249	2.4	3
309	High-Loading Composition-Tolerant CoMn Spinel Oxides with Performance beyond 1 W/cm <sup>2</sup> in Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1251-1257	20.1	48
308	Regulating Key Variables and Visualizing Lithium Dendrite Growth: An Operando X-ray Study. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8441-8449	16.4	65
307	Rh and Rh Alloy Nanoparticles as Highly Active H <sub>2</sub> Oxidation Catalysts for Alkaline Fuel Cells. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5057-5062	13.1	30
306	Golden Palladium Zinc Ordered Intermetallics as Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , <b>2019</b> , 13, 5968-5974	16.7	56
305	Synergistic Mn-Co catalyst outperforms Pt on high-rate oxygen reduction for alkaline polymer electrolyte fuel cells. <i>Nature Communications</i> , <b>2019</b> , 10, 1506	17.4	128
304	Quantifying the Atomic Ordering of Binary Intermetallic Nanocatalysts Using In Situ Heating STEM and XRD. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1488-1489	0.5	1
303	Sulfur encapsulation by MOF-derived CoS <sub>2</sub> embedded in carbon hosts for high-performance LiB batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21128-21139	13	48
302	Uniform lithium deposition on N-doped carbon-coated current collectors. <i>Chemical Communications</i> , <b>2019</b> , 55, 10124-10127	5.8	11
301	Ultrahigh Rate Performance of a Robust Lithium Nickel Manganese Cobalt Oxide Cathode with Preferentially Orientated Li-Diffusing Channels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41178-41187	9.5	10
300	Atomic-Scale Visualization of Electrochemical Lithiation Processes in Monolayer MoS <sub>2</sub> by Cryogenic Electron Microscopy. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902773	21.8	18
299	Rock-Salt-Type MnCo <sub>2</sub> O <sub>3</sub> /C as Efficient Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9331-9337	9.6	11
298	A Strategy for Increasing the Efficiency of the Oxygen Reduction Reaction in Mn-Doped Cobalt Ferrites. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4412-4421	16.4	66
297	Cobalt-Based Nitride-Core Oxide-Shell Oxygen Reduction Electrocatalysts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19241-19245	16.4	74
296	Octahedral spinel electrocatalysts for alkaline fuel cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 24425-24432	11.5	27

295	In Situ X-ray Absorption Spectroscopy of a Synergistic Co-Mn Oxide Catalyst for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1463-1466	16.4	78
294	Pt-Rich/Sn-Rich/Pt Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3791-3797	16.4	124
293	High-Loading Intermetallic Pt <sub>3</sub> Co/C Core-Shell Nanoparticles as Enhanced Activity Electrocatalysts toward the Oxygen Reduction Reaction (ORR). <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1532-1539	9.6	97
292	Understanding Conversion-Type Electrodes for Lithium Rechargeable Batteries. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 273-281	24.3	166
291	High-Performance GaO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5519-5526	9.5	35
290	Direct visualization of sulfur cathodes: new insights into Li-S batteries via X-ray based methods.. <i>Energy and Environmental Science</i> , <b>2018</b> , 8, 202-210	35.4	67
289	Copper-Induced Formation of Structurally Ordered Pt <sub>2</sub> FeCu Ternary Intermetallic Electrocatalysts with Tunable Phase Structure and Improved Stability. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5987-5995	9.6	68
288	Phenothiazine-Based Polymer Cathode Materials with Ultrahigh Power Densities for Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3560-3564	6.1	43
287	Relaxation of asymmetric crystallographic tilt: In situ x-ray diffraction studies of epitaxial electrodeposition of bismuth on GaAs (110). <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 035301	2.5	3
286	Dynamic Hosts for High-Performance LiS Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1325-1330	20.1	39
285	The effect of alloying of transition metals (M = Fe, Co, Ni) with palladium catalysts on the electrocatalytic activity for the oxygen reduction reaction in alkaline media. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 1045-1052	6.7	16
284	Porous Fe <sub>3</sub> O <sub>4</sub> Nanospheres as Effective Sulfur Hosts for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1656-A1661	3.9	19
283	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. <i>ACS Nano</i> , <b>2018</b> , 12, 10463-10472	16.7	99
282	Pt-Decorated Composition-Tunable Pd-Fe@Pd/C Core-Shell Nanoparticles with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7248-7255	16.4	90
281	SnS/C nanocomposites for high-performance sodium ion battery anodes.. <i>RSC Advances</i> , <b>2018</b> , 8, 23847-23853	3.7	20
280	Solar energy conversion, storage, and release using an integrated solar-driven redox flow battery. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5362-5372	13	36
279	Electrochemical Hydrogen Evolution at Ordered Mo <sub>7</sub> Ni <sub>7</sub> . <i>ACS Catalysis</i> , <b>2017</b> , 7, 3375-3383	13.1	44
278	IrPdRu/C as H Oxidation Catalysts for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6807-6810	16.4	77

277	Synthesis and electrochemical characterization of $\text{Ti}_x\text{Ta}_y\text{Al}_z\text{N}_{1-x-y-z}$ for fuel cell catalyst supports. <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 246, 293-301	3.3	1
276	Rediscovering $\text{Cr}_2\text{O}_7^{2-}$ as an Oxidant with Unrivalled Power and Energy Density, for Affordable, Next-Generation Energy Storage and Conversion. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1439-1443	20.1	3
275	Systematic Optimization of Battery Materials: Key Parameter Optimization for the Scalable Synthesis of Uniform, High-Energy, and High Stability $\text{LiNiMnCoO}$ Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35811-35819	9.5	52
274	Hybrid Organic Electrodes: The Rational Design and Synthesis of High-Energy Redox-Active Pendant Functionalized Polypyrroles for Electrochemical Energy Storage. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1946-A1951	3.9	6
273	Fe/N/C Nanotubes with Atomic Fe Sites: A Highly Active Cathode Catalyst for Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6485-6492	13.1	108
272	Rapid hydrothermal synthesis of $\text{Li}_3\text{VO}_4$ with different favored facets. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 2547-2553	2.6	6
271	Rotating Disk Electrode Voltammetry of Thin Films of Novel Oxide Materials. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H1154-H1160	3.9	10
270	Superior Charge Storage and Power Density of a Conducting Polymer-Modified Covalent Organic Framework. <i>ACS Central Science</i> , <b>2016</b> , 2, 667-673	16.8	274
269	Spontaneous incorporation of gold in palladium-based ternary nanoparticles makes durable electrocatalysts for oxygen reduction reaction. <i>Nature Communications</i> , <b>2016</b> , 7, 11941	17.4	58
268	The Sodium-Oxygen/Carbon Dioxide Electrochemical Cell. <i>ChemSusChem</i> , <b>2016</b> , 9, 1600-6	8.3	13
267	Structure of the Photo-catalytically Active Surface of $\text{SrTiO}_3$ . <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 7816-9	16.4	54
266	In situ electrochemical characterization of poly-3,4-ethylenedioxythiophene/tetraalkylphenylene diamine films and their potential use in electrochemical energy storage devices. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 765, 65-72	4.1	8
265	In Situ TEM for Electrochemical Energy Storage and Conversion Systems. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1326-1327	0.5	
264	Hydroxyl Radical Generation and DNA Nuclease Activity: A Mechanistic Study Based on a Surface-Immobilized Copper Thioether Clip-Phen Derivative. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 10081-9	4.8	16
263	In Situ Electrochemical Cell TEM for Battery and Fuel Cell Systems. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 752-753	0.5	
262	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. <i>Scientific Data</i> , <b>2016</b> , 3, 160041	8.2	36
261	Template-free synthesis of hollow-structured $\text{Co}_3\text{O}_4$ nanoparticles as high-performance anodes for lithium-ion batteries. <i>ACS Nano</i> , <b>2015</b> , 9, 1775-81	16.7	250
260	Synthesis and Characterization of Poly-3,4-ethylenedioxythiophene/2,5-Dimercapto-1,3,4-thiadiazole (PEDOT-DMcT) Hybrids. <i>Electrochimica Acta</i> , <b>2015</b> , 167, 55-60	6.7	20

259	Conductivity and Microstructure of Combinatorially Sputter-Deposited Ta <sub>1-x</sub> Ni <sub>x</sub> N Nitride Thin Films. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4515-4524	9.6	7
258	Origin of Multiple Peaks in the Potentiodynamic Oxidation of CO Adlayers on Pt and Ru-Modified Pt Electrodes. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1899-906	6.4	33
257	Electrochemical lithiation-induced polymorphism of anthraquinone derivatives observed by operando X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27665-71	3.6	6
256	Identical Location Transmission Electron Microscopy Imaging of Site-Selective Pt Nanocatalysts: Electrochemical Activation and Surface Disorder. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14992-8	16.4	70
255	High power organic cathodes using thin films of electropolymerized benzidine polymers. <i>Chemical Communications</i> , <b>2015</b> , 51, 14674-7	5.8	10
254	In Situ TEM for Quantitative Electrochemistry of Energy Systems. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1509-1510	0.5	4
253	Cation-Dependent Stabilization of Electrogenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13423-13427	3.6	8
252	Cation-Dependent Stabilization of Electrogenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13225-9	16.4	68
251	Unassisted HI photoelectrolysis using n-WSe <sub>2</sub> solar absorbers. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13984-91	3.6	11
250	Operando X-ray scattering and spectroscopic analysis of germanium nanowire anodes in lithium ion batteries. <i>Langmuir</i> , <b>2015</b> , 31, 2028-35	4	31
249	Rapid and efficient redox processes within 2D covalent organic framework thin films. <i>ACS Nano</i> , <b>2015</b> , 9, 3178-83	16.7	247
248	Tailoring Pore Size of Nitrogen-Doped Hollow Carbon Nanospheres for Confining Sulfur in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401752	21.8	243
247	Synthesis of carbon supported ordered tetragonal pseudo-ternary Pt <sub>2</sub> M <sub>2</sub> M <sub>2</sub> (M = Fe, Co, Ni) nanoparticles and their activity for oxygen reduction reaction. <i>Journal of Power Sources</i> , <b>2015</b> , 280, 459-466	8.9	37
246	Morphology and activity tuning of CuPt/C ordered intermetallic nanoparticles by selective electrochemical dealloying. <i>Nano Letters</i> , <b>2015</b> , 15, 1343-8	11.5	108
245	Water oxidation catalysis by Co(II) impurities in Co(III) <sub>4</sub> O <sub>4</sub> cubanes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17681-8	16.4	138
244	Mechanistic insights into operational lithium-sulfur batteries by in situ X-ray diffraction and absorption spectroscopy. <i>RSC Advances</i> , <b>2014</b> , 4, 18347	3.7	114
243	A rechargeable Na <sub>2</sub> O <sub>2</sub> /O <sub>2</sub> battery enabled by stable nanoparticle hybrid electrolytes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17723-17729	13	79
242	Theoretical Studies of Carbonyl-Based Organic Molecules for Energy Storage Applications: The Heteroatom and Substituent Effect. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6046-6051	3.8	81

241	Generalized platform for antibody detection using the antibody catalyzed water oxidation pathway. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1879-83	16.4	27
240	Electrogenerated Chemiluminescence of Bithiophenes with Methylthio Functionalities. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 924-932	3.8	5
239	An electrochemical quartz crystal microbalance study of a prospective alkaline anion exchange membrane material for fuel cells: anion exchange dynamics and membrane swelling. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 5309-22	16.4	34
238	Breaking the Crowther limit: combining depth-sectioning and tilt tomography for high-resolution, wide-field 3D reconstructions. <i>Ultramicroscopy</i> , <b>2014</b> , 140, 26-31	3.1	32
237	Nanoscale imaging of lithium ion distribution during in situ operation of battery electrode and electrolyte. <i>Nano Letters</i> , <b>2014</b> , 14, 1453-9	11.5	204
236	Pt skin on AuCu intermetallic substrate: a strategy to maximize Pt utilization for fuel cells. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9643-9	16.4	198
235	CO <sub>2</sub> and O <sub>2</sub> evolution at high voltage cathode materials of Li-ion batteries: a differential electrochemical mass spectrometry study. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6197-201	7.8	72
234	Key Parameters Governing the Energy Density of Rechargeable Li/S Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 882-5	6.4	94
233	The mechanism of the one-step synthesis of hollow-structured Li(3)VO(4) as an anode for lithium-ion batteries. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 5608-12	4.8	33
232	Single layer graphene as an electrochemical platform. <i>Faraday Discussions</i> , <b>2014</b> , 172, 27-45	3.6	10
231	Amylopectin wrapped graphene oxide/sulfur for improved cyclability of lithium-sulfur battery. <i>ACS Nano</i> , <b>2013</b> , 7, 8801-8	16.7	167
230	Yolk-shell structure of polyaniline-coated sulfur for lithium-sulfur batteries. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16736-43	16.4	663
229	β-Ketoenamine-linked covalent organic frameworks capable of pseudocapacitive energy storage. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16821-4	16.4	682
228	Increasing the gravimetric energy density of organic based secondary battery cathodes using small radius cations (Li <sup>+</sup> and Mg <sup>2+</sup> ). <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14532-5	16.4	59
227	In operando X-ray studies of the conversion reaction in Mn <sub>3</sub> O <sub>4</sub> lithium battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2094-2103	13	105
226	An exchangeable-tip scanning probe instrument for the analysis of combinatorial libraries of electrocatalysts. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 024101	1.7	8
225	Lithium-sulfur battery cathode enabled by lithium-nitrile interaction. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 763-7	16.4	310
224	Li-Carboxylate Anode Structure-Property Relationships from Molecular Modeling. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 132-141	9.6	67



223	Kinetics of interfacial electron transfer at single-layer graphene electrodes in aqueous and nonaqueous solutions. <i>Langmuir</i> , <b>2013</b> , 29, 1683-94	4	97
222	Designing conducting polymer films for electrochemical energy storage technologies. <i>RSC Advances</i> , <b>2013</b> , 3, 1957-1964	3.7	30
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