

# Hector D Abruna

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/11688748/hector-d-abruna-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. 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.

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	High-rate electrochemical energy storage through Li <sup>+</sup> intercalation pseudocapacitance. <i>Nature Materials</i> , <b>2013</b> , 12, 518-22	27	3039
347	Coulomb blockade and the Kondo effect in single-atom transistors. <i>Nature</i> , <b>2002</b> , 417, 722-5	50.4	1717
346	Structurally ordered intermetallic platinum-cobalt core-shell nanoparticles with enhanced activity and stability as oxygen reduction electrocatalysts. <i>Nature Materials</i> , <b>2013</b> , 12, 81-7	27	1467
345	Underpotential deposition at single crystal surfaces of Au, Pt, Ag and other materials. <i>Chemical Reviews</i> , <b>2001</b> , 101, 1897-930	68.1	703
344	†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
343	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
342	Electron injection from colloidal PbS quantum dots into titanium dioxide nanoparticles. <i>ACS Nano</i> , <b>2008</b> , 2, 2206-12	16.7	512
341	Effects of Liquid Electrolytes on the Charge/Discharge Performance of Rechargeable Lithium/Sulfur Batteries: Electrochemical and in-Situ X-ray Absorption Spectroscopic Studies. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 25132-25137	3.8	463
340	Electrocatalytic activity of ordered intermetallic phases for fuel cell applications. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4043-9	16.4	450
339	Activating Pd by morphology tailoring for oxygen reduction. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 602-8	16.4	417
338	Tunable high performance cross-linked alkaline anion exchange membranes for fuel cell applications. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3400-4	16.4	392
337	Phosphonium-functionalized polyethylene: a new class of base-stable alkaline anion exchange membranes. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18161-4	16.4	364
336	PbSe nanocrystal excitonic solar cells. <i>Nano Letters</i> , <b>2009</b> , 9, 3749-55	11.5	333
335	Electroluminescent devices from ionic transition metal complexes. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 2976-2988		324
334	Solid-state electroluminescent devices based on transition metal complexes. <i>Chemical Communications</i> , <b>2003</b> , 2392-9	5.8	311
333	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
332	Pt-decorated PdCo@Pd/C core-shell nanoparticles with enhanced stability and electrocatalytic activity for the oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17664-6	16.4	286

331	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
330	Tuning oxygen reduction reaction activity via controllable dealloying: a model study of ordered Cu <sub>3</sub> Pt/C intermetallic nanocatalysts. <i>Nano Letters</i> , <b>2012</b> , 12, 5230-8	11.5	259
329	Direct measurement of the electric-field distribution in a light-emitting electrochemical cell. <i>Nature Materials</i> , <b>2007</b> , 6, 894-9	27	256
328	Coordination chemistry in two dimensions: chemically modified electrodes. <i>Coordination Chemistry Reviews</i> , <b>1988</b> , 86, 135-189	23.2	254
327	Template-free synthesis of hollow-structured Co <sub>3</sub> O <sub>4</sub> nanoparticles as high-performance anodes for lithium-ion batteries. <i>ACS Nano</i> , <b>2015</b> , 9, 1775-81	16.7	250
326	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
325	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
324	Micromethod for the investigation of the interactions between DNA and redox-active molecules. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 3162-9	7.8	234
323	Electrochemistry of individual monolayer graphene sheets. <i>ACS Nano</i> , <b>2011</b> , 5, 2264-70	16.7	208
322	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
321	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
320	A ring-opening metathesis polymerization route to alkaline anion exchange membranes: development of hydroxide-conducting thin films from an ammonium-functionalized monomer. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12888-9	16.4	193
319	Redox-Active Ferrocenyl Dendrimers: Thermodynamics and Kinetics of Adsorption, In-Situ Electrochemical Quartz Crystal Microbalance Study of the Redox Process and Tapping Mode AFM Imaging. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 10763-10773	16.4	187
318	Electrochemical determination of activation energies for methanol oxidation on polycrystalline platinum in acidic and alkaline electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 49-77	3.6	186
317	Spectral, electrochemical and electrocatalytic properties of 1,10-phenanthroline-5,6-dione complexes of transition metals. <i>Inorganic Chemistry</i> , <b>1985</b> , 24, 4263-4267	5.1	174
316	Electroluminescence in ruthenium(II) complexes. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 13624-8	16.4	168
315	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
314	Understanding Conversion-Type Electrodes for Lithium Rechargeable Batteries. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 273-281	24.3	166

313	Effects of Dendrimer Generation on Site Isolation of Core Moieties: Electrochemical and Fluorescence Quenching Studies with Metalloporphyrin Core Dendrimers. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 30-38	9.6	164
312	4-Vinyl-, 6-vinyl-, and 4Pvinyl-2,2',6',6''-terpyridinyl ligands: their synthesis and the electrochemistry of their transition-metal coordination complexes. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 3961-3967	16.4	164
311	Electrocatalytic oxidation of formic acid at an ordered intermetallic PtBi surface. <i>ChemPhysChem</i> , <b>2003</b> , 4, 193-9	3.2	162
310	Zeptomole voltammetric detection and electron-transfer rate measurements using platinum electrodes of nanometer dimensions. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3962-71	7.8	161
309	Synthesis, Characterization, and Electrocatalytic Activity of PtBi and PtPb Nanoparticles Prepared by Borohydride Reduction in Methanol. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3365-3372	9.6	160
308	Batteries and electrochemical capacitors. <i>Physics Today</i> , <b>2008</b> , 61, 43-47	0.9	157
307	Facile Synthesis of Carbon-Supported PdCo CoreShell Nanoparticles as Oxygen Reduction Electrocatalysts and Their Enhanced Activity and Stability with Monolayer Pt Decoration. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2274-2281	9.6	154
306	Fabrication and preliminary testing of a planar membraneless microchannel fuel cell. <i>Journal of Power Sources</i> , <b>2005</b> , 139, 96-105	8.9	149
305	Three-dimensional tracking and visualization of hundreds of Pt-Co fuel cell nanocatalysts during electrochemical aging. <i>Nano Letters</i> , <b>2012</b> , 12, 4417-23	11.5	145
304	Electrocatalytic performance of fuel oxidation by Pt3Ti nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5452-8	16.4	143
303	Near-IR electrochromism in electropolymerized films of a biscyclometalated ruthenium complex bridged by 1,2,4,5-tetra(2-pyridyl)benzene. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 20720-3	16.4	142
302	Water oxidation catalysis by Co(II) impurities in Co(III)4O4 cubanes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17681-8	16.4	138
301	Multivalent binding motifs for the noncovalent functionalization of graphene. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17614-7	16.4	133
300	Electroanalysis with chemically modified electrodes. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 142-149	7.8	131
299	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
298	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
297	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
296	Rotating Disk Electrode (RDE) Investigation of BH4 <sup>-</sup> and BH3OH <sup>-</sup> Electro-oxidation at Pt and Au: Implications for BH4 <sup>-</sup> Fuel Cells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19700-19712	3.8	124

295	Precise adjustment of nanometric-scale diffusion layers within a redox dendrimer molecule by ultrafast cyclic voltammetry: an electrochemical nanometric microtome. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 2206-26	4.8	123
294	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
293	In situ synthesis of lithium sulfide-carbon composites as cathode materials for rechargeable lithium batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1433-1440	13	120
292	Synthesis and Characterization of Redox-Active Metal Complexes Sequentially Self-Assembled onto Gold Electrodes via a New Thiol-terpyridine Ligand. <i>Langmuir</i> , <b>1996</b> , 12, 4455-4462	4	120
291	Electrogenerated chemiluminescence from PbS quantum dots. <i>Nano Letters</i> , <b>2009</b> , 9, 789-93	11.5	118
290	Metal ion-induced self-assembly of functionalized 2,6-oligopyridines. 2. Copper-containing double-stranded helicates derived from functionalized quaterpyridine and quinquepyridine: redox state-induced transformations and electron communication in mixed-valence systems. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 1122-1125	5.1	117
289	Monomeric and oligomeric complexes of ruthenium and osmium with tetra-2-pyridyl-1,4-pyrazine (TPPZ). <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 194-203	5.1	117
288	A dual electrolyte H <sub>2</sub> /O <sub>2</sub> planar membraneless microchannel fuel cell system with open circuit potentials in excess of 1.4 V. <i>Langmuir</i> , <b>2005</b> , 21, 3544-50	4	116
287	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
286	Highly stable and CO-tolerant Pt/Ti <sub>0.7</sub> W <sub>0.3</sub> O <sub>2</sub> electrocatalyst for proton-exchange membrane fuel cells. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 10218-20	16.4	113
285	One-pot synthesis of platinum-based nanoparticles incorporated into mesoporous niobium oxide-carbon composites for fuel cell electrodes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 9389-95	16.4	113
284	Electron transfer through molecules and assemblies at electrode surfaces. <i>Chemical Reviews</i> , <b>2008</b> , 108, 2721-36	68.1	113
283	In situ electron energy-loss spectroscopy in liquids. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 1027-35	0.5	112
282	Electrocatalysis of CO <sub>2</sub> reduction at surface modified metallic and semiconducting electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1986</b> , 209, 101-107		111
281	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
280	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
279	Solvent Processable Tetraalkylammonium-Functionalized Polyethylene for Use as an Alkaline Anion Exchange Membrane. <i>Macromolecules</i> , <b>2010</b> , 43, 7147-7150	5.5	108
278	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

277	Synthesis, Characterization, and Electrocatalytic Activity of PtBi Nanoparticles Prepared by the Polyol Process. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5871-5876	9.6	104
276	Intermetallic PtPb Nanoparticles Prepared by Sodium Naphthalide Reduction of Metal-Organic Precursors: Electrocatalytic Oxidation of Formic Acid. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5591-5596	9.6	102
275	Identification of a quenching species in ruthenium tris-bipyridine electroluminescent devices. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 7761-4	16.4	102
274	Reactivity of monolayer chemical vapor deposited graphene imperfections studied using scanning electrochemical microscopy. <i>ACS Nano</i> , <b>2012</b> , 6, 3070-9	16.7	99
273	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
272	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
271	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
270	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
269	Tunnelling spectra of individual magnetic endofullerene molecules. <i>Nature Materials</i> , <b>2008</b> , 7, 884-9	27	93
268	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
267	Addition of a Phosphorescent Dopant in Electroluminescent Devices from Ionic Transition Metal Complexes. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6114-6116	9.6	87
266	Enantiomerically pure chiral coordination polymers: synthesis, spectroscopy, and electrochemistry in solution and on surfaces. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 10265-71	16.4	86
265	Synthesis, Characterization, Electrochemistry, and EQCM Studies of Polyamidoamine Dendrimers Surface-Functionalized with Polypyridyl Metal Complexes. <i>Langmuir</i> , <b>1999</b> , 15, 872-884	4	85
264	Electrochemical and mechanistic studies of Re(CO) <sub>3</sub> (dmbpy)Cl] and their relation to the catalytic reduction of CO <sub>2</sub> . <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1986</b> , 201, 347-358		85
263	Single-molecule conductance of pyridine-terminated dithienylethene switch molecules. <i>ACS Nano</i> , <b>2011</b> , 5, 5115-23	16.7	84
262	Metal ion-induced self-assembly of functionalized 2,6-oligopyridines. 4. Metal-metal interaction in double-stranded, dicuprous helicates derived from terpyridine derivatives. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 4450-4456	5.1	83
261	Synthesis of Intermetallic PtZn Nanoparticles by Reaction of Pt Nanoparticles with Zn Vapor and Their Application as Fuel Cell Catalysts. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2661-2667	9.6	82
260	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

259	Synthesis, characterization, and electrocatalytic activity of PtPb nanoparticles prepared by two synthetic approaches. <i>Langmuir</i> , <b>2006</b> , 22, 10465-71	4	80
258	Electrogenerated chemiluminescence. 40. A chemiluminescent polymer based on the tris(4-vinyl-4Pmethyl-2,2Pbipyridyl)ruthenium(II) system. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 2641-2642	16.4	80
257	A rechargeable Na $\text{IO}_2/\text{O}_2$ battery enabled by stable nanoparticle hybrid electrolytes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17723-17729	13	79
256	Ultrafast voltammetry of adsorbed redox active dendrimers with nanometric resolution: an electrochemical microtome. <i>ChemPhysChem</i> , <b>2001</b> , 2, 130-4	3.2	78
255	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
254	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
253	Observation of electroluminescence and photovoltaic response in ionic junctions. <i>Science</i> , <b>2006</b> , 313, 1416-9	33.3	76
252	Metal ion-induced self-assembly of functionalized 2,6-oligopyridines. 3. Metal-metal interaction and redox state-induced transformations in double-stranded helicates derived from functionalized quinquepyridine and sexipyridine. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 4436-4449	5.1	76
251	Ruthenium molecular wires with conjugated bridging ligands: onset of band formation in linear inorganic conjugated oligomers. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1513-22	16.4	75
250	Semiconductor electrodes. 40. Photoassisted hydrogen evolution at poly(benzyl viologen)-coated p-type silicon electrodes. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 6898-6901	16.4	75
249	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
248	Iron(II) and copper(I) coordination polymers: electrochromic materials with and without chiroptical properties. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 4389-93	5.1	73
247	$\text{CO}_2$ and $\text{O}_2$ 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
246	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
245	Mechanistic Studies of Formate Oxidation on Platinum in Alkaline Medium. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5810-5820	3.8	69
244	Copper-Induced Formation of Structurally Ordered PtBeCu Ternary Intermetallic Electrocatalysts with Tunable Phase Structure and Improved Stability. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5987-5995	9.6	68
243	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
242	Dinuclear transition-metal terpyridine complexes with a dithienylcyclopentene bridge directed toward molecular electronic applications. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 10470-2	5.1	68

241	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
240	Li-Carboxylate Anode Structure-Property Relationships from Molecular Modeling. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 132-141	9.6	67
239	Construction of submicrometer voltammetric electrodes. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 782-784	7.8	67
238	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
237	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
236	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
235	Membraneless, room-temperature, direct borohydride/cerium fuel cell with power density of over 0.25 W/cm <sup>2</sup> . <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6076-9	16.4	64
234	Infiltrating sulfur in hierarchical architecture MWCNT@meso C core-shell nanocomposites for lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 9051-7	3.6	63
233	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
232	Tungsten based electrocatalyst for fuel cell applications. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 2128-2132	3.5	59
231	Direct observation of electrocatalytic synergy. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11033-5	16.4	59
230	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
229	Coalescence in the Thermal Annealing of Nanoparticles: An in Situ STEM Study of the Growth Mechanisms of Ordered PtBe Nanoparticles in a KCl Matrix. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1436-1442	9.6	58
228	Electrocatalytic mechanism and kinetics of SOMs oxidation on ordered PtPb and PtBi intermetallic compounds: DEMS and FTIRS study. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 3739-51	3.6	58
227	Interactions of benzyl viologen with surface-bound single- and double-stranded DNA. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 4700-6	7.8	58
226	Structural Effects on the Oxidation of HCOOH by Bismuth-Modified Pt(111) Electrodes with (100) Monatomic Steps. <i>Langmuir</i> , <b>1999</b> , 15, 7325-7332	4	57
225	Golden Palladium Zinc Ordered Intermetallics as Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , <b>2019</b> , 13, 5968-5974	16.7	56
224	Quantification of the surface diffusion of tripodal binding motifs on graphene using scanning electrochemical microscopy. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6224-36	16.4	55



223	Organic light-emitting devices with laminated top contacts. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3675-3677	3.4	55
222	Adsorption Dynamics of Electroactive Self-Assembling Molecules. <i>Langmuir</i> , <b>1994</b> , 10, 1971-1979	4	55
221	Structure of the Photo-catalytically Active Surface of SrTiO <sub>3</sub> . <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 7816-9	16.4	54
220	High throughput screening of electrocatalysts for fuel cell applications. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 054104	1.7	54
219	Electroluminescence in Ruthenium(II) Dendrimers. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 8130-8133	3.8	54
218	In-situ x-ray studies of the underpotential deposition of copper on platinum(111). <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 6278-6288		54
217	Oxidation of the ligand in nitro complexes of ruthenium(III). <i>Inorganic Chemistry</i> , <b>1980</b> , 19, 1896-1903	5.1	54
216	Methanol electrooxidation on PtRu bulk alloys and carbon-supported PtRu nanoparticle catalysts: a quantitative DEMS study. <i>Langmuir</i> , <b>2009</b> , 25, 7725-35	4	53
215	Ordered Arrays Generated via Metal-Initiated Self-Assembly of Terpyridine Containing Dendrimers and Bridging Ligands. <i>Langmuir</i> , <b>1999</b> , 15, 7351-7354	4	53
214	Systematic Optimization of Battery Materials: Key Parameter Optimization for the Scalable Synthesis of Uniform, High-Energy, and High Stability LiNiMnCoO Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35811-35819	9.5	52
213	Tailored redox functionality of small organics for pseudocapacitive electrodes. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7176	35.4	52
212	Adsorption of CO on PtBi <sub>2</sub> and PtBi surfaces. <i>Surface Science</i> , <b>2005</b> , 574, 1-16	1.8	52
211	Di-, tri-, and tetrametallic double-stranded helical complexes derived from alkylthio-substituted septipyridines: synthesis, structure, and redox properties. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 5477-5484	5.1	52
210	Dithienylcyclopentenes-containing transition metal bisterpyridine complexes directed toward molecular electronic applications. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 991-9	5.1	51
209	Semiconductor Electrodes: XLI . Improvement of Performance of Electrodes by Electrochemical Polymerization of o-Phenylenediamine at Surface Imperfections. <i>Journal of the Electrochemical Society</i> , <b>1982</b> , 129, 265-271	3.9	51
208	In situ x-ray absorption spectroscopy studies of copper underpotentially deposited in the absence and presence of chloride on platinum (111). <i>Langmuir</i> , <b>1993</b> , 9, 2460-2469	4	49
207	Operando Methods in Electrocatalysis. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1136-1178	13.1	49
206	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

205	Sulfur encapsulation by MOF-derived CoS <sub>2</sub> embedded in carbon hosts for high-performance LiS batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21128-21139	13	48
204	Self-Poisoning during BH <sub>4</sub> <sup>-</sup> Oxidation at Pt and Au, and in Situ Poison Removal Procedures for BH <sub>4</sub> <sup>-</sup> Fuel Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1571-1581	3.8	48
203	Contact issues in electroluminescent devices from ruthenium complexes. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 807-809	3.4	48
202	Thermodynamics of Adsorption of Redox-Active Self-Assembling Monolayers of Transition-Metal Complexes. <i>Langmuir</i> , <b>1994</b> , 10, 1300-1305	4	48
201	Elucidation of the redox behavior of 2,5-dimercapto-1,3,4-thiadiazole (DMcT) at poly(3,4-ethylenedioxythiophene) (PEDOT)-modified electrodes and application of the DMcT-PEDOT composite cathodes to lithium/lithium ion batteries. <i>Langmuir</i> , <b>2006</b> , 22, 10554-63	4	47
200	Structural effects on the oxidation of HCOOH by bismuth modified Pt(111) electrodes with (110) monatomic steps. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 467, 43-49	4.1	47
199	Spatial distributions of copper in microbial biofilms by scanning electrochemical microscopy. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 936-41	10.3	46
198	Direct electrochemistry of cytochrome c surface-confined on DNA-modified gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2003</b> , 544, 93-100	4.1	45
197	Electrochemistry within molecules using ultrafast cyclic voltammetry. <i>Comptes Rendus Chimie</i> , <b>2003</b> , 6, 99-115	2.7	45
196	Electrochemically Controlled Adhesion in Atomic Force Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 6303-6304	16.4	45
195	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
194	Transition-metal tris-bipyridines containing three dithienylcyclopentenes: synthesis, photochromic, and electrochromic properties. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 7080-5	5.1	44
193	Operating mechanism of light-emitting electrochemical cells. <i>Nature Materials</i> , <b>2008</b> , 7, 168-168	27	44
192	Direct 120V, 60Hz operation of an organic light emitting device. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 074502	2.5	44
191	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
190	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
189	Anthracene-bridged binuclear ruthenium complexes: electrochemical and spectroscopic evidence of electronic communication through the pi system. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 796-804	5.1	43
188	Determination of spatial distributions of zinc and active biomass in microbial biofilms by two-photon laser scanning microscopy. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 4014-21	4.8	43

187	Induced adsorption of sulfate/bisulfate anions by submonolayer amounts of copper on deliberately stepped Pt surfaces. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 3757-3762		43
186	Poly[dithio-2,5-(1,3,4-thiadiazole)] (PDMcT)/poly(3,4-ethylenedioxythiophene) (PEDOT) composite cathode for high-energy lithium/lithium-ion rechargeable batteries. <i>Journal of Power Sources</i> , <b>2007</b> , 173, 522-530	8.9	42
185	Redox Active Ordered Arrays via Metal Initiated Self-Assembly of Terpyridine Based Ligands. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 8746-8754	3.4	42
184	Can chemical reactivity patterns on chemically modified electrode surfaces be anticipated from solution reactivity? A study of ruthenium nitro complexes. <i>Journal of the American Chemical Society</i> , <b>1980</b> , 102, 3272-3274	16.4	41
183	Multifunctional Electrocatalysts: Ru <sup>M</sup> (M = Co, Ni, Fe) for Alkaline Fuel Cells and Electrolyzers. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4608-4616	13.1	40
182	Wiring up single molecules. <i>Thin Solid Films</i> , <b>2003</b> , 438-439, 457-461	2.2	40
181	Quenching Dynamics of the Photoluminescence of [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> -Pendant PAMAM Dendrimers by Nitro Aromatics and Other Materials. <i>Macromolecules</i> , <b>2003</b> , 36, 1272-1278	5.5	40
180	Cobaltocenium-functionalized poly(propylene imine) dendrimers: redox and electromicrogravimetric studies and AFM imaging. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 1109-17	4.8	40
179	Determination of copper at electrodes modified with ligands of varying coordination strength: a preamble to speciation studies. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 274-278	7.8	40
178	Synthesis and Photoelectrochemistry of Polycrystalline Thin Films of p - WSe <sub>2</sub> , p - WS <sub>2</sub> , and p - MoSe <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>1988</b> , 135, 1436-1442	3.9	40
177	Dynamic Hosts for High-Performance Li <sup>B</sup> 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
176	Near-infrared absorbing and emitting Ru(II)-Pt(II) heterodimetallic complexes of dpdpz (dpdpz = 2,3-di(2-pyridyl)-5,6-diphenylpyrazine). <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 3959-69	5.1	38
175	A light-emitting memristor. <i>Organic Electronics</i> , <b>2010</b> , 11, 150-153	3.5	38
174	Photophysics and redox behavior of chiral transition metal polymers. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 1448-55	5.5	38
173	Synthesis of carbon supported ordered tetragonal pseudo-ternary Pt <sub>2</sub> M <sub>2</sub> M <sub>2</sub> (M <sub>1</sub> = 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
172	Direct electrochemistry and electrocatalysis of myoglobin immobilized on L-cysteine self-assembled gold electrode. <i>Langmuir</i> , <b>2011</b> , 27, 2052-7	4	37
171	Observation of intermediate-range order in a nominally amorphous molecular semiconductor film. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 1458-1461		37
170	Assessing the impact of denitrifier-produced nitric oxide on other bacteria. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 2200-5	4.8	37

169	Synergistic Bimetallic Metallic Organic Framework-Derived Pt-Co Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , <b>2020</b> , 14, 13069-13080	16.7	37
168	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
167	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
166	Energy-Level-Related Response of Cathodic Electrogenerated-Chemiluminescence of Self-Assembled CdSe/ZnS Quantum Dot Films. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 18822-18828	3.8	36
165	New double-band-electrode channel flow differential electrochemical mass spectrometry cell: application for detecting product formation during methanol electrooxidation. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4319-24	7.8	36
164	Mononuclear and dinuclear ruthenium complexes of 2,3-Di-2-pyridyl-5,6-diphenylpyrazine: synthesis and spectroscopic and electrochemical studies. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 517-24	5.1	36
163	Probing Diffusional Transport in Redox-Active Dendrimers. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 8504-8513	3.4	36
162	Thermodynamics and Kinetics of Adsorption of Poly(amido amine) Dendrimers Surface Functionalized with Ruthenium(II) Complexes. <i>Langmuir</i> , <b>1999</b> , 15, 7333-7339	4	36
161	Multiple-use polymer-modified electrodes for electroanalysis of metal ions in solution. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 2009-2011	7.8	36
160	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. <i>Scientific Data</i> , <b>2016</b> , 3, 160041	8.2	36
159	High-Performance GaO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5519-5526	9.5	35
158	In situ identification of a luminescence quencher in an organic light-emitting device. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 76-81		35
157	Electrogenerated chemiluminescence of bipyridine and phenanthroline complexes of osmium. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1984</b> , 175, 321-326		35
156	Semiconductor Electrodes. 44. Photoelectrochemistry at Polycrystalline p-Type WSe <sub>2</sub> Films. <i>Journal of the Electrochemical Society</i> , <b>1982</b> , 129, 673-675	3.9	35
155	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
154	Preventing nonspecific adsorption on polymer brush covered gold electrodes using a modified ATRP initiator. <i>Biomacromolecules</i> , <b>2009</b> , 10, 2750-8	6.9	34
153	Poison Formation upon the Dissociative Adsorption of Formic Acid on Bismuth-Modified Stepped Platinum Electrodes. <i>Langmuir</i> , <b>2000</b> , 16, 787-794	4	34
152	Effects of the Electrolyte Identity and the Presence of Anions on the Redox Behavior of Irreversibly Adsorbed Bismuth on Pt(111). <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 3506-3511	3.4	34

151	Improved synthesis of 4-vinyl-4Pmethyl-2,2Pbipyridine. <i>Inorganic Chemistry</i> , <b>1985</b> , 24, 987-988	5.1	34
150	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
149	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
148	New Insights into the Mechanism and Kinetics of Adsorbed CO Electrooxidation on Platinum: Online Mass Spectrometry and Kinetic Monte Carlo Simulation Studies. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 11040-11053	3.8	33
147	Electrochemically Triggered Reaction of a Surface-Confined Reagent: Mechanistic and EQCM Characterization of Redox-Active Self-Assembling Monolayers Derived from 5,5Dithiobis(2-nitrobenzoic acid) and Related Materials. <i>Langmuir</i> , <b>1999</b> , 15, 127-134	4	33
146	Catechol-Pendant Terpyridine Complexes: Electrodeposition Studies and Electrocatalysis of NADH Oxidation. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 559-565	5.1	33
145	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
144	5,5Bis(methylthio)-2,2Bithiophene: A Potential Cathode Electroactive Material for Energy Storage Devices. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3989-3997	3.8	32
143	Electrochemical DNA sensing based on gold nanoparticle amplification. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 381, 833-8	4.4	32
142	EQCM Studies of the Redox Processes during and after Electropolymerization of Films of Transition-Metal Complexes of Vinylterpyridine. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 1387-1396	3.4	32
141	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
140	Cascaded light-emitting devices based on a ruthenium complex. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4980-4982	3.7	31
139	Enhanced ORR Kinetics on Au-Doped PtCu Porous Films in Alkaline Media. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9967-9976	3.1	31
138	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
137	Designing conducting polymer films for electrochemical energy storage technologies. <i>RSC Advances</i> , <b>2013</b> , 3, 1957-1964	3.7	30
136	Getter sputtering system for high-throughput fabrication of composition spreads. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 072212	1.7	30
135	Stepwise self-assembly of ordered supramolecular assemblies based on coordination chemistry. <i>Langmuir</i> , <b>2006</b> , 22, 2082-9	4	30
134	STM and ECSTM Study of the Formation and Structure of Self-Assembling Osmium Complexes on Pt(111). <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 1036-1042		30

133	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
132	Phases of Underpotentially Deposited Hg on Au(111): An in Situ Surface X-ray Diffraction Study. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 2907-2916	3.4	29
131	Thermodynamic, kinetic, surface pKa, and structural aspects of self-assembled monolayers of thio compounds on gold. <i>Langmuir</i> , <b>2012</b> , 28, 17825-31	4	28
130	Coadsorption of Sulfate/Bisulfate Anions with Hg Cations during Hg Underpotential Deposition on Au(111): An in Situ X-ray Diffraction Study. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 244-252	3.4	28
129	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
128	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
127	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
126	Interface-Enhanced Catalytic Selectivity on the C2 Products of CO2 Electroreduction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2473-2482	13.1	27
125	Synthesis and Electrochemical and Computational Analysis of Two New Families of Thiophene-Carbonyl Molecules. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6022-6032	3.8	26
124	Improved Fuel Cell Oxidation Catalysis in Pt <sub>1-x</sub> Tax. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1080-1087	9.6	25
123	Exchange Dynamics of Redox-Active Self-Assembling Mixed Monolayers. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 4556-4563		25
122	A high-throughput search for direct methanol fuel cell anode electrocatalysts of type Pt <sub>x</sub> Bi <sub>y</sub> Pb <sub>z</sub> . <i>Applied Surface Science</i> , <b>2007</b> , 254, 653-661	6.7	25
121	Interactions between DNA and a water-soluble C60 derivative studied by surface-based electrochemical methods. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 567, 339-349	4.1	25
120	Electrochemical, in-situ surface EXAFS and CTR studies of Co monolayers irreversibly adsorbed onto Pt(111). <i>Electrochimica Acta</i> , <b>1999</b> , 44, 2385-2396	6.7	25
119	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	25
118	Poly(2,5-dimercapto-1,3,4-thiadiazole) as a cathode for rechargeable lithium batteries with dramatically improved performance. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 8521-6	4.8	24
117	Electrochemical and Adsorption Properties of PAMAM Dendrimers Surface-Functionalized with Polypyridyl Cobalt Complexes. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 2404-2411	3.4	24
116	Electrochemical and Computational Studies on the Electrocatalytic Effect of Conducting Polymers toward the Redox Reactions of Thiadiazole-Based Thiolate Compounds. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6169-6176	3.8	23

115	Synthesis of Pt <sub>100</sub> Mo <sub>10</sub> Thin Film and Catalytic Activity for Fuel Cells. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3451-3456	9.6	23
114	X-ray and electrochemical studies of Cu upd on single crystal electrodes in the presence of bromide: comparison between Au(111) and Pt(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 461, 121-130	4.1	23
113	Polymer-modified microelectrodes for metal ion determination and the development of a calcium amperometric probe based on surface-immobilized Antipyrilazo III. <i>Analytical Chemistry</i> , <b>1988</b> , 60, 254-258	7.8	23
112	Towards organic energy storage: characterization of 2,5-bis(methylthio)thieno[3,2-b]thiophene. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9553		22
111	Synthesis, computational and electrochemical characterization of a family of functionalized dimercaptothiophenes for potential use as high-energy cathode materials for lithium/lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 4366		22
110	Redox and photoactive dendrimers in solution and on surfaces. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 310A-319A	8	22
109	Adsorption-desorption processes of redox-active osmium thiol monolayers. <i>Journal of Electroanalytical Chemistry</i> , <b>1996</b> , 408, 199-211	4.1	22
108	Activity-Stability Relationship in [email protected] Nanoparticles for Electrocatalysis. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2827-2834	20.1	22
107	Lithographic Applications of Redox Probe Microscopy. <i>Langmuir</i> , <b>2001</b> , 17, 5932-5938	4	21
106	Electroanalysis with modified carbon paste electrodes coordination trends, selectivity and sensitivity. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1988</b> , 242, 87-96		21
105	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
104	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
103	Cross-linking Effects on Performance Metrics of Phenazine-Based Polymer Cathodes. <i>ChemSusChem</i> , <b>2020</b> , 13, 2428-2435	8.3	20
102	X-ray and Electrochemical Studies of Cu UPD on Au(111) Single-Crystal Electrodes in the Presence of Bromide. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 9825-9833	3.4	20
101	Methanol Oxidation Using Ternary Ordered Intermetallic Electrocatalysts: A DEMS Study. <i>ACS Catalysis</i> , <b>2020</b> , 10, 770-776	13.1	20
100	SnS/C nanocomposites for high-performance sodium ion battery anodes.. <i>RSC Advances</i> , <b>2018</b> , 8, 23847-23853	3.7	20
99	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
98	Ab-Initio XAFS Calculations and in-Situ XAFS Measurements of Copper Underpotential Deposition on Pt(111): A Comparative Study. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 6552-6558		19

97	Determination of silver with polymer-modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>1992</b> , 328, 111-125	4.1	19
96	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
95	Electrocatalysis of Direct Alcohol Fuel Cells: Quantitative DEMS Studies. <i>Structure and Bonding</i> , <b>2011</b> , 33-83	0.9	18
94	Theoretical and Electrochemical Analysis of Poly(3,4-alkylenedioxythiophenes): Electron-Donating Effects and Onset of p-Doped Conductivity. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16776-16784	3.8	17
93	Kinetic Stabilization of Ordered Intermetallic Phases as Fuel Cell Anode Materials. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14929-14938	3.8	17
92	PtPb nanoparticle electrocatalysts: control of activity through synthetic methods. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 965-980	2.3	17
91	Pendant thioether polymer for redox capacitor cathodes. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 462-465	5.1	17
90	Electronic Effects in CO Chemisorption on PtBb Intermetallic Surfaces: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17357-17369	3.8	17
89	Redox induced reversible structural transformations of dimeric and polymeric phenanthroline-based copper chelates. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 765-72	5.1	17
88	Blocking of recombination sites and photoassisted hydrogen evolution at surface-modified polycrystalline thin films of p-tungsten diselenide. <i>The Journal of Physical Chemistry</i> , <b>1985</b> , 89, 1279-1285		17
87	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
86	Electrocatalysis of 2,5-dimercapto-1,3,5-thiadiazole by 3,4-ethylenedioxy-substituted conducting polymers. <i>Langmuir</i> , <b>2011</b> , 27, 13904-9	4	16
85	Silver delafossite nitride, AgTaN <sub>2</sub> ?. <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 7-11	3.3	16
84	The effects of anions on the underpotential deposition of Hg on Au(111) An electrochemical and in situ surface X-ray diffraction study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1998</b> , 134, 113-131	5.1	16
83	Kinetic Studies for the Electrocatalytic Reduction of Bis(2-mercapto-1,3,4-thiadiazoyl)-5,5-disulfide at a Poly(3,4-ethylenedioxythiophene) Film-Modified Electrode via Rotating-Disk Electrode Voltammetry. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13129-13136	3.8	16
82	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
81	Electrochemical Energy Generation and Storage. Fuel Cells and Lithium-Ion Batteries. <i>Bulletin of the Chemical Society of Japan</i> , <b>2007</b> , 80, 1843-1855	5.1	15
80	5-Hydroxytryptophan as a precursor of a catalyst for the oxidation of NADH. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 2624-31	7.8	15



79	Anion Effects and Induced Adsorption of Chloride by Submonolayer Amounts of Copper on Deliberately Stepped Platinum Surfaces. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 5932-5939	3.4	15
78	Electroanalysis of aromatic aldehydes with modified carbon paste electrodes. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 2599-2602	7.8	15
77	Organic electrode materials for fast-rate, high-power battery applications. <i>Materials Reports Energy</i> , <b>2021</b> , 1, 100008		15
76	High Throughput Thin Film Pt-M Alloys for Fuel Electrooxidation: Low Concentrations of M (M = Sn, Ta, W, Mo, Ru, Fe, In, Pd, Hf, Zn, Zr, Nb, Sc, Ni, Ti, V, Cr, Rh). <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, F880-F887	3.9	14
75	Dinitrophenyl ligand substrates and their application to immunosensors. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 22, 63-70	11.8	14
74	Photophysics of PAMAM-Based Dendrimers of Polypyridyl Complexes of Ruthenium. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 9993-10003	3.4	14
73	The Co-Adsorption of UPD Copper and Irreversibly Adsorbed Bismuth on Pt(111) and Pt(100) Electrodes. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 6764-6769	3.4	14
72	The Sodium-Oxygen/Carbon Dioxide Electrochemical Cell. <i>ChemSusChem</i> , <b>2016</b> , 9, 1600-6	8.3	13
71	Cyclometalated ruthenium oligomers with 2,3-di(2-pyridyl)-5,6-diphenylpyrazine: a combined experimental, computational, and comparison study with noncyclometalated analogous. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 13312-20	5.1	13
70	Alternative Oxidants for High-Power Fuel Cells Studied by Rotating Disk Electrode (RDE) Voltammetry at Pt, Au, and Glassy Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 6073-6084	3.8	13
69	Rhenium Complexes of 2,3-Di(2-pyridyl)-5,6-diphenylpyrazine: Synthesis, Characterization, and Reactivity. <i>Organometallics</i> , <b>2012</b> , 31, 1161-1167	3.8	12
68	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
67	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
66	Uniform lithium deposition on N-doped carbon-coated current collectors. <i>Chemical Communications</i> , <b>2019</b> , 55, 10124-10127	5.8	11
65	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
64	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
63	Fabrication and surface characterization of single crystal PtBi and PtPb (100) and (001) surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 12978-86	3.6	11
62	Time-Resolved Surface X-ray Scattering Study of Surface Ordering of Electrodeposited Layers. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 11703-11704	16.4	11

61	Temperature dependence of tris(2,2'-bipyridine) ruthenium (II) device characteristics. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 4381-4384	2.5	11
60	Determination of solvation numbers of [Ru(II)(bpy) <sub>3</sub> ] and [Ru(II)(tpy) <sub>2</sub> ] functionalized-PAMAM dendrimers adsorbed onto platinum electrode surfaces. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 567, 249-256	4.1	11
59	High power organic cathodes using thin films of electropolymerized benzidine polymers. <i>Chemical Communications</i> , <b>2015</b> , 51, 14674-7	5.8	10
58	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 <sup>10</sup>	9.5	10
57	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
56	Single layer graphene as an electrochemical platform. <i>Faraday Discussions</i> , <b>2014</b> , 172, 27-45	3.6	10
55	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
54	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
53	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
52	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
51	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
50	Cation-Dependent Stabilization of Electrogenated 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
49	A Mechanistic Differential Electrochemical Mass Spectrometry (DEMS) and in situ Fourier Transform Infrared Investigation of Dimethoxymethane Electro-Oxidation at Platinum. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 13293-13302	3.8	8
48	Surface characterization of ordered intermetallic PtBi(0 0 1) surfaces by ultra-high vacuum electrochemistry (UHV-EC). <i>Surface Science</i> , <b>2008</b> , 602, 1830-1836	1.8	8
47	Multimetallic, double-stranded helical complexes derived from hexa(n-propylthio)novipyridine: synthesis, structure and redox properties. <i>Inorganica Chimica Acta</i> , <b>1999</b> , 288, 189-199	2.7	8
46	Conductivity and Microstructure of Combinatorially Sputter-Deposited Ta <sub>1-x</sub> Al <sub>x</sub> N Nitride Thin Films. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4515-4524	9.6	7
45	In Situ Quartz Crystal Microbalance Study of Self-Assembly and Mass Transfer Processes of a Redox-Active Osmium Complex. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 17909-17914		7
44	Synthesis, surface characterization and photoelectrochemical studies of polycrystalline thin films of p-WSe <sub>2</sub> with added Ca and Mg. <i>Solar Energy Materials and Solar Cells</i> , <b>1987</b> , 15, 277-291		7

43	Cobalt-electrocatalytic HAT for functionalization of unsaturated C=C bonds. <i>Nature</i> , <b>2022</b> , 605, 687-695	50.4	7
42	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
41	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
40	Rapid hydrothermal synthesis of Li <sub>3</sub> VO <sub>4</sub> with different favored facets. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 2547-2553	2.6	6
39	Reactions of Phospholipase A2 at a Mercury Electrode Surface. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 167-174	3.4	6
38	Electrocatalytic reduction of S-nitrosoglutathione at electrodes modified with an electropolymerized film of a pyrrole-derived viologen system and their application to cellular S-nitrosoglutathione determinations. <i>Analytical Biochemistry</i> , <b>1998</b> , 263, 102-12	3.1	6
37	SMOKE Studies of Electrodeposited Mono- and Multilayers. <i>Langmuir</i> , <b>2003</b> , 19, 4309-4315	4	6
36	Study of Specific Binding of Maltose Binding Protein to Pyrrole-Derived Bipyridinium Film by Quartz Crystal Microbalance. <i>Langmuir</i> , <b>2002</b> , 18, 4892-4897	4	6
35	Regulating lithium nucleation and growth by zinc modified current collectors. <i>Nano Research</i> , <b>2020</b> , 13, 45-51	10	6
34	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
33	Electrogenerated Chemiluminescence of Bithiophenes with Methylthio Functionalities. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 924-932	3.8	5
32	X-ray fluorescence investigation of ordered intermetallic phases as electrocatalysts towards the oxidation of small organic molecules. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 13689-97	4.8	5
31	Adsorption Dynamics of a Phospholipase A2 onto a Mercury Electrode Surface. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 17235-17243		5
30	Organic Electroanalysis with Chemically Modified Electrodes. <i>Analytical Letters</i> , <b>1986</b> , 19, 1613-1632	2.2	5
29	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
28	Lithium-Sulfur redox: challenges and opportunities. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 25, 100652	7.2	5
27	In Situ TEM for Quantitative Electrochemistry of Energy Systems. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1509-1510	0.5	4
26	Detailed Study of N-(3-Pyrrol-1-yl-propyl)-4,4'-bipyridinium (PPB) Electropolymerization. <i>Langmuir</i> , <b>2003</b> , 19, 5402-5406	4	4

25	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
24	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
23	Rediscovering Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> as an Oxidant with Unrivaled 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
22	Elucidation of the electrochemical behavior of phenothiazine-based polyaromatic amines. <i>Tetrahedron</i> , <b>2019</b> , 75, 4244-4249	2.4	3
21	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
20	Phase Behavior of Pseudobinary Precious Metal-Carbide Systems. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 21664-21671	3.8	3
19	Development of a versatile SMOKE system with electrochemical applications. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 3018-3021	1.7	3
18	Transport properties of liquid crystal doped films of polyvinylferrocene. <i>Electrochimica Acta</i> , <b>1987</b> , 32, 319-323	6.7	3
17	Transfer of Solution Reactivity Properties to Electrode Surfaces. <i>ACS Symposium Series</i> , <b>1982</b> , 133-158	0.4	3
16	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
15	Electro-oxidation of BH <sub>4</sub> <sup>-</sup> in dimethylsulfoxide and dimethylformamide studied by rotating disk electrode voltammetry. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6223-6227	8.9	2
14	Scanning Tunneling Microscopy of Molecular Adsorbates. <i>Comments on Inorganic Chemistry</i> , <b>1994</b> , 15, 171-196	3.9	2
13	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
12	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
11	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
10	Synthesis and electrochemical characterization of Ti <sub>x</sub> Ta <sub>y</sub> Al <sub>z</sub> N <sub>1-<math>\delta</math></sub> for fuel cell catalyst supports. <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 246, 293-301	3.3	1
9	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
8	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

7	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
6	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
5	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
4	Degradation of Ru( $\text{bpy}$ ) <sub>3</sub> <sup>2+</sup> -based OLEDs. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 846, DD11.11.1		
3	Conductivity Studies of Metal Coordination Polymers of Cobalt, Iron, Ruthenium, and Osmium Vinylbipyridine Complexes. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , <b>1988</b> , 160, 377-388		
2	In Situ TEM for Electrochemical Energy Storage and Conversion Systems. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1326-1327	0.5	
1	In Situ Electrochemical Cell TEM for Battery and Fuel Cell Systems. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 752-753	0.5	