Keith J. Stevenson

List of Publications by Citations

342 papers	15,232 citations	62 h-index	111 g-index
377 ext. papers	17,185 ext. citations	7.1 avg, IF	7 L-index

#	Paper	IF	Citations
342	Influence of nitrogen doping on oxygen reduction electrocatalysis at carbon nanofiber electrodes. *Journal of Physical Chemistry B*, **2005**, 109, 4707-16	3.4	756
341	Structure, composition, and chemical reactivity of carbon nanotubes by selective nitrogen doping. *Carbon*, **2006**, 44, 1429-1437	10.4	606
340	Water electrolysis on La(1-x)Sr(x)CoO(3-)perovskite electrocatalysts. *Nature Communications*, **2016**, 7, 11053	17.4	550
339	Anion charge storage through oxygen intercalation in LaMnO3 perovskite pseudocapacitor electrodes. *Nature Materials*, **2014**, 13, 726-32	27	442
338	Lithium insertion in nanostructured TiO(2)(B) architectures. *Accounts of Chemical Research*, **2013**, 46, 1104-12	24.3	346
337	A Systematic Investigation of -Nitrophenol Reduction by Bimetallic Dendrimer Encapsulated Nanoparticles. *Journal of Physical Chemistry C*, **2013**, 117, 7598-7604	3.8	311
336	Effect of Nitrogen Concentration on Capacitance, Density of States, Electronic Conductivity, and Morphology of N-Doped Carbon Nanotube Electrodes. *Journal of Physical Chemistry C*, **2009**, 113, 19082-19090	3.8	292
335	The Effect of Fluoroethylene Carbonate as an Additive on the Solid Electrolyte Interphase on Silicon Lithium-Ion Electrodes. *Chemistry of Materials*, **2015**, 27, 5531-5542	9.6	271
334	Synthesis and characterization of dendrimer templated supported bimetallic Pt-Au nanoparticles. *Journal of the American Chemical Society*, **2004**, 126, 12949-56	16.4	263
333	Highly Active, Nonprecious Metal Perovskite Electrocatalysts for Bifunctional Metal-Air Battery Electrodes. *Journal of Physical Chemistry Letters*, **2013**, 4, 1254-9	6.4	258
332	Direct Preparation of Carbon Nanofiber Electrodes via Pyrolysis of Iron(II) Phthalocyanine: Electrocatalytic Aspects for Oxygen Reduction. *Journal of Physical Chemistry B*, **2004**, 108, 11375-11383	3.4	245
331	Silicon nanowire fabric as a lithium ion battery electrode material. *Journal of the American Chemical Society*, **2011**, 133, 20914-21	16.4	230
330	Atomic ensemble and electronic effects in Ag-rich AgPd nanoalloy catalysts for oxygen reduction in alkaline media. *Journal of the American Chemical Society*, **2012**, 134, 9812-9	16.4	225
329	Highly Efficient All-Inorganic Planar Heterojunction Perovskite Solar Cells Produced by Thermal Coevaporation of CsI and PbI. *Journal of Physical Chemistry Letters*, **2017**, 8, 67-72	6.4	214
328	CoMn2O4 Spinel Nanoparticles Grown on Graphene as Bifunctional Catalyst for Lithium-Air Batteries. *Journal of the Electrochemical Society*, **2011**, 158, A1379	3.9	210
327	University Students' Expectations of Teaching. *Studies in Higher Education*, **2000**, 25, 309-323	2.6	199
326	Tuning the Electrocatalytic Activity of Perovskites through Active Site Variation and Support Interactions. *Chemistry of Materials*, **2014**, 26, 3368-3376	9.6	196

325	Calculations of Li-Ion Diffusion in Olivine Phosphates. *Chemistry of Materials*, **2011**, 23, 4032-4037	9.6	193
324	Examining Solid Electrolyte Interphase Formation on Crystalline Silicon Electrodes: Influence of Electrochemical Preparation and Ambient Exposure Conditions. *Journal of Physical Chemistry C*, **2012**, 116, 19737-19747	3.8	186
323	Mechanistic Discussion of the Oxygen Reduction Reaction at Nitrogen-Doped Carbon Nanotubes. *Journal of Physical Chemistry C*, **2011**, 115, 20002-20010	3.8	186
322	A study of empathy decline in students from five health disciplines during their first year of training. *International Journal of Medical Education*, **2011**, 2, 12-17	1.6	163
321	Probing the Intrinsic Thermal and Photochemical Stability of Hybrid and Inorganic Lead Halide Perovskites. *Journal of Physical Chemistry Letters*, **2017**, 8, 1211-1218	6.4	160
320	Nanostructured LaNiO3 Perovskite Electrocatalyst for Enhanced Urea Oxidation. *ACS Catalysis*, **2016**, 6, 5044-5051	13.1	156
319	Size-Dependent Hydrogenation of p-Nitrophenol with Pd Nanoparticles Synthesized with Poly(amido)amine Dendrimer Templates. *Journal of Physical Chemistry C*, **2013**, 117, 22644-22651	3.8	150
318	Synergistic assembly of dendrimer-templated platinum catalysts on nitrogen-doped carbon nanotube electrodes for oxygen reduction. *Langmuir*, **2007**, 23, 5279-82	4	134
317	Microporous supramolecular coordination compounds as chemosensory photonic lattices. *Angewandte Chemie - International Edition*, **2002**, 41, 154-7	16.4	132
316	Copper-Coated Amorphous Silicon Particles as an Anode Material for Lithium-Ion Batteries. *Chemistry of Materials*, **2012**, 24, 1306-1315	9.6	131
315	Ultrasensitive electroanalytical tool for detecting, sizing, and evaluating the catalytic activity of platinum nanoparticles. *Journal of the American Chemical Society*, **2013**, 135, 570-3	16.4	129
314	Low-temperature synthesis of amorphous FeP2 and its use as anodes for Li ion batteries. *Journal of the American Chemical Society*, **2012**, 134, 5532-5	16.4	116
313	Electrochemical Preparation of Molybdenum Trioxide Thin Films: Effect of Sintering on Electrochromic and Electroinsertion Properties. *Langmuir*, **2003**, 19, 4316-4326	4	116
312	Electrochemical Measurement of the Free Energy of Adsorption ofn-Alkanethiolates at Ag(111). *Journal of the American Chemical Society*, **1998**, 120, 1062-1069	16.4	113
311	Synthesis and photophysics of a porphyrin-fullerene dyad assembled through Watson-Crick hydrogen bonding. *Chemical Communications*, **2005**, 1892-4	5.8	109
310	Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in LaSrNiFeO Ruddlesden-Popper oxides. *Nature Communications*, **2018**, 9, 3150	17.4	108
309	Surface modification of indium tin oxide via electrochemical reduction of aryldiazonium cations. *Langmuir*, **2006**, 22, 2884-91	4	101
308	Highly Stable and Active PtCu Oxygen Reduction Electrocatalysts Based on Mesoporous Graphitic Carbon Supports. *Chemistry of Materials*, **2009**, 21, 4515-4526	9.6	99

307	Voltammetric Measurement of Interfacial Acid/Base Reactions. *Journal of Physical Chemistry B*, **1998**, 102, 2930-2934	3.4	99
306	Highly Stable Pt/Ordered Graphitic Mesoporous Carbon Electrocatalysts for Oxygen Reduction. *Journal of Physical Chemistry C*, **2010**, 114, 10796-10805	3.8	83
305	Effect of Electron-Transport Material on Light-Induced Degradation of Inverted Planar Junction Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700476	21.8	80
304	Role of surface oxides in the formation of solid-electrolyte interphases at silicon electrodes for lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 21510-24	9.5	80
303	Morphology Dependence of the Lithium Storage Capability and Rate Performance of Amorphous TiO2 Electrodes. *Journal of Physical Chemistry C*, **2011**, 115, 2585-2591	3.8	80
302	Graphene-based optically transparent electrodes for spectroelectrochemistry in the UV-Vis region. *Small*, **2010**, 6, 184-9	11	80
301	High-Resolution Characterization of Pentacene/Polyaniline Interfaces in Thin-Film Transistors. *Advanced Functional Materials*, **2006**, 16, 2409-2414	15.6	80
300	Features of primary health care teams associated with successful quality improvement of diabetes care: a qualitative study. *Family Practice*, **2001**, 18, 21-6	1.9	80
299	Room temperature electrodeposition of molybdenum sulfide for catalytic and photoluminescence applications. *ACS Nano*, **2013**, 7, 8199-205	16.7	79
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297	Synthesis and Catalytic Evaluation of Dendrimer-Encapsulated Cu Nanoparticles. An Undergraduate Experiment Exploring Catalytic Nanomaterials. *Journal of Chemical Education*, **2009**, 86, 368	2.4	79
296	High pseudocapacitance of MnO2 nanoparticles in graphitic disordered mesoporous carbon at high scan rates. *Journal of Materials Chemistry*, **2012**, 22, 3160		77
295	Kinetic evaluation of highly active supported gold catalysts prepared from monolayer-protected clusters: an experimental Michaelis-Menten approach for determining the oxygen binding constant during CO oxidation catalysis. *Journal of the American Chemical Society*, **2008**, 130, 10103-15	16.4	77
294	Influence of surface adsorption on the interfacial electron transfer of flavin adenine dinucleotide and glucose oxidase at carbon nanotube and nitrogen-doped carbon nanotube electrodes. *Analytical Chemistry*, **2013**, 85, 1571-81	7.8	76
293	Photoinitiated growth of sub-7 nm silver nanowires within a chemically active organic nanotubular template. *Journal of the American Chemical Society*, **2010**, 132, 2104-5	16.4	76
292	A materials driven approach for understanding single entity nano impact electrochemistry. *Current Opinion in Electrochemistry*, **2017**, 6, 38-45	7.2	74
291	Hybrid MnO2□isordered mesoporous carbon nanocomposites: synthesis and characterization as electrochemical pseudocapacitor electrodes. *Journal of Materials Chemistry*, **2010**, 20, 390-398		73
290	Influence of mesoporosity on lithium-ion storage capacity and rate performance of nanostructured TiO2(B). *Langmuir*, **2012**, 28, 2897-903	4	69

289	Spatial determinants of quorum signaling in a infection model. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4779-4784	11.5	67
288	Electrochemical Oxidative Adsorption of Ethanethiolate on Ag(111). *Journal of the American Chemical Society*, **1997**, 119, 6596-6606	16.4	67
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286	Oxidative Adsorption ofn-Alkanethiolates at Mercury. Dependence of Adsorption Free Energy on Chain Length. *Journal of Physical Chemistry B*, **1998**, 102, 1235-1240	3.4	66
285	Bifunctional Catalysts for Alkaline Oxygen Reduction Reaction via Promotion of Ligand and Ensemble Effects at Ag/MnOx Nanodomains. *Journal of Physical Chemistry C*, **2012**, 116, 11032-11039	3.8	65
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282	Electrode/Electrolyte Interface of Composite □Li3V2(PO4)3 Cathodes in a Nonaqueous Electrolyte for Lithium Ion Batteries and the Role of the Carbon Additive. *Chemistry of Materials*, **2015**, 27, 3332-3340	9.6	63
281	Amperometric detection of L-lactate using nitrogen-doped carbon nanotubes modified with lactate oxidase. *Analytical Chemistry*, **2011**, 83, 8123-9	7.8	62
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279	Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesden□Popper Catalysts for the Oxidation of Urea and Small Alcohols. *ACS Catalysis*, **2019**, 9, 2664-2673	13.1	60
278	Enhanced Oxygen Activation over Supported Bimetallic Au□Ni Catalysts. *Journal of Physical Chemistry C*, **2010**, 114, 11498-11508	3.8	58
277	Picomolar peroxide detection using a chemically activated redox mediator and square wave voltammetry. *Analytical Chemistry*, **2006**, 78, 8518-25	7.8	58
276	Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1701140	21.8	57
275	Electrochemical monitoring of single nanoparticle collisions at mercury-modified platinum ultramicroelectrodes. *ACS Nano*, **2014**, 8, 4539-46	16.7	56
274	Control of interface order by inverse quasi-epitaxial growth of squaraine/fullerene thin film photovoltaics. *ACS Nano*, **2013**, 7, 9268-75	16.7	56
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272	Electrochemical sensors for rapid diagnosis of pathogens in real time. *Analyst, The*, **2019**, 144, 6461-6478	5	55

271	Electrochemically Driven Covalent Functionalization of Graphene from Fluorinated Aryl Iodonium Salts. *Journal of Physical Chemistry C*, **2013**, 117, 12038-12044	3.8	54
270	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. *Journal of Physical Chemistry Letters*, **2020**, 11, 333-339	6.4	54
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268	Optical Constants of Electrodeposited Mixed Molybdenum□ungsten Oxide Films Determined by Variable-Angle Spectroscopic Ellipsometry. *Journal of Physical Chemistry C*, **2007**, 111, 18251-18257	3.8	51
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266	Enhancing Na+ Extraction Limit through High Voltage Activation of the NASICON-Type Na4MnV(PO4)3 Cathode. *ACS Applied Energy Materials*, **2018**, 1, 5842-5846	6.1	51
265	In situ Raman spectroscopy of LiFePO4: size and morphology dependence during charge and self-discharge. *Nanotechnology*, **2013**, 24, 424009	3.4	50
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263	Voltammetric measurement of anion adsorption on Ag(111). *Journal of Electroanalytical Chemistry*, **1998**, 447, 43-51	4.1	48
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259	Hexaazatriphenylene-based polymer cathode for fast and stable lithium-, sodium- and potassium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 22596-22603	13	46
258	Electrochemical oxidation of catecholamines and catechols at carbon nanotube electrodes. *Analyst, The*, **2006**, 131, 262-7	5	45
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255	Electrochemical deposition of germanium sulfide from room-temperature ionic liquids and subsequent Ag doping in an aqueous solution. *Langmuir*, **2012**, 28, 5513-7	4	44
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250	The Reliability of Activated Partial Thromboplastin Time Methods and the Relationship to Lipid Composition and Ultrastructure. *Thrombosis and Haemostasis*, **1986**, 55, 250-258	7	43
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242	Spectroelectrochemical Investigation of Double-Walled Tubular J-Aggregates of Amphiphilic Cyanine Dyes. *Journal of Physical Chemistry C*, **2008**, 112, 1260-1268	3.8	38
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218	Influence of aminosilane precursor concentration on physicochemical properties of composite Nafion membranes for vanadium redox flow battery applications. *Journal of Power Sources*, **2017**, 340, 32-39	8.9	29

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196	Influence of Surface Defect Structure on the Underpotential Deposition of Pb Monolayers at Ag(111). *Langmuir*, **1996**, 12, 494-499	4	24
195	Ray-Induced Degradation in the Triple-Cation Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2019**, 10, 813-818	6.4	24
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List of Publications

1 Metal Ion-Coupled Electron Transfer Kinetics in Intercalation-Based Transition Metal Oxides* **2022**, 9-31