Adam Heller

List of Publications by Citations

167 papers	16,633 citations	69 h-index	128 g-index
174 ext. papers	17,933 ext. citations	9.4 avg, IF	6.97 L-index

#	Paper	IF	Citations
167	Electrochemical glucose sensors and their applications in diabetes management. *Chemical Reviews*, **2008**, 108, 2482-505	68.1	1199
166	Electrical wiring of redox enzymes. *Accounts of Chemical Research*, **1990**, 23, 128-134	24.3	733
165	Miniature biofuel cells. *Physical Chemistry Chemical Physics*, **2004**, 6, 209	3.6	590
164	Electrical connection of enzyme redox centers to electrodes. *The Journal of Physical Chemistry*, **1992**, 96, 3579-3587		539
163	Direct electrical communication between chemically modified enzymes and metal electrodes. I. Electron transfer from glucose oxidase to metal electrodes via electron relays, bound covalently to the enzyme. *The Journal of Physical Chemistry*, **1987**, 91, 1285-1289		492
162	Characteristics of a miniature compartment-less glucose-O2 biofuel cell and its operation in a living plant. *Journal of the American Chemical Society*, **2003**, 125, 6588-94	16.4	471
161	Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications. *Analytical Chemistry*, **1990**, 62, 258-63	7.8	397
160	A miniature biofuel cell. *Journal of the American Chemical Society*, **2001**, 123, 8630-1	16.4	380
159	Direct electrical communication between chemically modified enzymes and metal electrodes. 2. Methods for bonding electron-transfer relays to glucose oxidase and D-amino-acid oxidase. *Journal of the American Chemical Society*, **1988**, 110, 2615-2620	16.4	344
158	Long tethers binding redox centers to polymer backbones enhance electron transport in enzyme "Wiring" hydrogels. *Journal of the American Chemical Society*, **2003**, 125, 4951-7	16.4	339
157	"Wired" enzyme electrodes for amperometric determination of glucose or lactate in the presence of interfering substances. *Analytical Chemistry*, **1994**, 66, 2451-7	7.8	327
156	Electron transfer between glucose oxidase and electrodes via redox mediators bound with flexible chains to the enzyme surface. *Journal of the American Chemical Society*, **1991**, 113, 1394-1397	16.4	318
155	Electron-conducting redox hydrogels: Design, characteristics and synthesis. *Current Opinion in Chemical Biology*, **2006**, 10, 664-72	9.7	298
154	Electrical communication between redox centers of glucose oxidase and electrodes via electrostatically and covalently bound redox polymers. *Journal of the American Chemical Society*, **1989**, 111, 2357-2358	16.4	286
153	A four-electron O(2)-electroreduction biocatalyst superior to platinum and a biofuel cell operating at 0.88 V. *Journal of the American Chemical Society*, **2004**, 126, 8368-9	16.4	278
152	Fe2O3 Nanorods as Anode Material for Lithium Ion Batteries. *Journal of Physical Chemistry Letters*, **2011**, 2, 2885-2891	6.4	271
151	A miniature biofuel cell operating in a physiological buffer. *Journal of the American Chemical Society* , **2002**, 124, 12962-3	16.4	265

150	Redox polymer films containing enzymes. 1. A redox-conducting epoxy cement: synthesis, characterization, and electrocatalytic oxidation of hydroquinone. *The Journal of Physical Chemistry*, **1991**, 95, 5970-5975		238
149	Glucose electrodes based on cross-linked [Os(bpy)2Cl]+/2+ complexed poly(1-vinylimidazole) films. *Analytical Chemistry*, **1993**, 65, 3512-7	7.8	230
148	Photocatalytic Oxidation of Organic Molecules at TiO2 Particles by Sunlight in Aerated Water. *Journal of the Electrochemical Society*, **1992**, 139, 113-118	3.9	220
147	Electrode Degradation in Lithium-Ion Batteries. *ACS Nano*, **2020**, 14, 1243-1295	16.7	209
146	An oxygen cathode operating in a physiological solution. *Journal of the American Chemical Society*, **2002**, 124, 6480-6	16.4	194
145	The "wired" laccase cathode: high current density electroreduction of O(2) to water at +0.7 V (NHE) at pH 5. *Journal of the American Chemical Society*, **2001**, 123, 5802-3	16.4	194
144	Oxygen is electroreduced to water on a "wired" enzyme electrode at a lesser overpotential than on platinum. *Journal of the American Chemical Society*, **2003**, 125, 15290-1	16.4	187
143	Redox polymer films containing enzymes. 2. Glucose oxidase containing enzyme electrodes. *The Journal of Physical Chemistry*, **1991**, 95, 5976-5980		182
142	Implanted electrochemical glucose sensors for the management of diabetes. *Annual Review of Biomedical Engineering*, **1999**, 1, 153-75	12	181
141	Electrochemistry in diabetes management. *Accounts of Chemical Research*, **2010**, 43, 963-73	24.3	180
140	Electroreduction of O2to Water on the Wired Laccase Cathode. *Journal of Physical Chemistry B*, **2001**, 105, 11917-11921	3.4	180
139	A laccase-wiring redox hydrogel for efficient catalysis of O2 electroreduction. *Journal of Physical Chemistry B*, **2006**, 110, 11180-7	3.4	175
138	Stability of Oxidases Immobilized in Silica Gels. *Journal of the American Chemical Society*, **1998**, 120, 4582-4585	16.4	165
137	Scanning electrochemical microscopy. 24. Enzyme ultramicroelectrodes for the measurement of hydrogen peroxide at surfaces. *Analytical Chemistry*, **1993**, 65, 3605-14	7.8	165
136	Beyond Doping and Coating: Prospective Strategies for Stable High-Capacity Layered Ni-Rich Cathodes. *ACS Energy Letters*, **2020**, 5, 1136-1146	20.1	161
135	High current density "wired" quinoprotein glucose dehydrogenase electrode. *Analytical Chemistry*, **1993**, 65, 238-241	7.8	160
134	Photo-crosslinked copolymers of 2-hydroxyethyl methacrylate, poly(ethylene glycol) tetra-acrylate and ethylene dimethacrylate for improving biocompatibility of biosensors. *Biomaterials*, **1995**, 16, 389-96	15.6	155
133	Potentially implantable miniature batteries. *Analytical and Bioanalytical Chemistry*, **2006**, 385, 469-73	4.4	152

132	Nanocolumnar Germanium Thin Films as a High-Rate Sodium-Ion Battery Anode Material. *Journal of Physical Chemistry C*, **2013**, 117, 18885-18890	3.8	150
131	Simple Synthesis of Nanocrystalline Tin Sulfide/N-Doped Reduced Graphene Oxide Composites as Lithium Ion Battery Anodes. *ACS Nano*, **2016**, 10, 10778-10788	16.7	146
130	Improving the stability of nanostructured silicon thin film lithium-ion battery anodes through their controlled oxidation. *ACS Nano*, **2012**, 6, 2506-16	16.7	143
129	Enzyme-amplified amperometric detection of 3000 copies of DNA in a 10-microL droplet at 0.5 fM concentration. *Analytical Chemistry*, **2003**, 75, 3267-9	7.8	136
128	A miniature membrane-less biofuel cell operating at +0.60 V under physiological conditions. *ChemBioChem*, **2004**, 5, 1703-5	3.8	131
127	On the Relationship between the Characteristics of Bilirubin Oxidases and O2 Cathodes Based on Their Wiring. *Journal of Physical Chemistry B*, **2002**, 106, 8842-8848	3.4	131
126	Nanostructured Si(1-x)Gex for tunable thin film lithium-ion battery anodes. *ACS Nano*, **2013**, 7, 2249-57	16.7	130
125	Enzyme-amplified amperometric sandwich test for RNA and DNA. *Analytical Chemistry*, **2002**, 74, 158-62	7.8	130
124	A Miniature Membrane-less Biofuel Cell Operating under Physiological Conditions at 0.5 V. *Journal of the Electrochemical Society*, **2003**, 150, A209	3.9	126
123	A miniature biofuel cell operating at 0.78 V. *Chemical Communications*, **2003**, 518-9	5.8	123
122	Amperometric glucose microelectrodes prepared through immobilization of glucose oxidase in redox hydrogels. *Analytical Chemistry*, **1991**, 63, 2268-72	7.8	122
121	Design and optimization of a selective subcutaneously implantable glucose electrode based on "wired" glucose oxidase. *Analytical Chemistry*, **1995**, 67, 1240-4	7.8	114
120	Screen printing of nucleic acid detecting carbon electrodes. *Analytical Chemistry*, **2002**, 74, 4370-7	7.8	110
119	Simple Synthesis of Nanostructured Sn/Nitrogen-Doped Carbon Composite Using Nitrilotriacetic Acid as Lithium Ion Battery Anode. *Chemistry of Materials*, **2016**, 28, 1343-1347	9.6	106
118	Electrodeposition of redox polymers and co-electrodeposition of enzymes by coordinative crosslinking. *Angewandte Chemie - International Edition*, **2002**, 41, 810-3	16.4	106
117	On the parameters affecting the characteristics of the "wired" glucose oxidase anode. *Journal of Electroanalytical Chemistry*, **2005**, 574, 347-357	4.1	105
116	Electrochemical glucose and lactate sensors based on "wired" thermostable soybean peroxidase operating continuously and stably at 37 degrees C. *Analytical Chemistry*, **1997**, 69, 1054-60	7.8	104
115	Polyacrylamide-based redox polymer for connecting redox centers of enzymes to electrodes. *Analytical Chemistry*, **1995**, 67, 1332-8	7.8	104

114	Biocompatible, glucose-permeable hydrogel for in situ coating of implantable biosensors. *Biomaterials*, **1997**, 18, 1665-70	15.6	103
113	An electron-conducting cross-linked polyaniline-based redox hydrogel, formed in one step at pH 7.2, wires glucose oxidase. *Journal of the American Chemical Society*, **2007**, 129, 7006-7	16.4	103
112	Elimination of electrooxidizable interferant-produced currents in amperometric biosensors. *Analytical Chemistry*, **1992**, 64, 2889-96	7.8	102
111	A Miniature Membraneless Biofuel Cell Operating at 0.36 V under Physiological Conditions. *Journal of the Electrochemical Society*, **2003**, 150, A1136	3.9	96
110	Electron diffusion coefficients in hydrogels formed of cross-linked redox polymers. *The Journal of Physical Chemistry*, **1993**, 97, 11014-11019		94
109	Effect of Quaternization of the Glucose Oxidase Wiring Redox Polymer on the Maximum Current Densities of Glucose Electrodes. *The Journal of Physical Chemistry*, **1996**, 100, 3719-3727		93
108	Electroreduction of O(2) to water at 0.6 V (SHE) at pH 7 on the "wired" Pleurotus ostreatus laccase cathode. *Biosensors and Bioelectronics*, **2002**, 17, 1071-4	11.8	92
107	Design, characterization, and one-point in vivo calibration of a subcutaneously implanted glucose electrode. *Analytical Chemistry*, **1994**, 66, 3131-8	7.8	91
106	Wiring of glucose oxidase within a hydrogel made with polyvinyl imidazole complexed with [(Os-4,4?-dimethoxy-2,2?-bipyridine)Cl]+/2+1. *Journal of Electroanalytical Chemistry*, **1995**, 396, 511-515	4.1	87
105	Loss of Activity or Gain in Stability of Oxidases upon Their Immobilization in Hydrated Silica: Significance of the Electrostatic Interactions of Surface Arginine Residues at the Entrances of the Reaction Channels. *Journal of the American Chemical Society*, **1998**, 120, 4586-4590	16.4	80
104	Effect of quaternization on electron diffusion coefficients for redox hydrogels based on poly(4-vinylpyridine). *The Journal of Physical Chemistry*, **1995**, 99, 5102-5110		78
103	Direct Electrical Communication between Graphite Electrodes and Surface Adsorbed Glucose Oxidase/Redox Polymer Complexes. *Angewandte Chemie International Edition in English*, **1990**, 29, 82-84		76
102	On the stability of the "wired" bilirubin oxidase oxygen cathode in serum. *Bioelectrochemistry*, **2006**, 68, 22-6	5.6	73
101	In Situ Optical Imaging of Sodium Electrodeposition: Effects of Fluoroethylene Carbonate. *ACS Energy Letters*, **2017**, 2, 2051-2057	20.1	71
100	A Simple Synthesis of an N-Doped Carbon ORR Catalyst: Hierarchical Micro/Meso/Macro Porosity and Graphitic Shells. *Chemistry - A European Journal*, **2016**, 22, 501-5	4.8	71
99	SnO2 and TiO2-supported-SnO2 lithium battery anodes with improved electrochemical performance. *Journal of Materials Chemistry*, **2012**, 22, 11134		65
98	In situ assembled mass-transport controlling micromembranes and their application in implanted amperometric glucose sensors. *Analytical Chemistry*, **2000**, 72, 3757-63	7.8	63
97	Optimization of "wired" enzyme O2-electroreduction catalyst compositions by scanning electrochemical microscopy. *Angewandte Chemie - International Edition*, **2004**, 43, 6355-7	16.4	58

96	K+ Reduces Lithium Dendrite Growth by Forming a Thin, Less-Resistive Solid Electrolyte Interphase. *ACS Energy Letters*, **2016**, 1, 414-419	20.1	57
95	In situ formation of a multicomponent inorganic-rich SEI layer provides a fast charging and high specific energy Li-metal battery. *Journal of Materials Chemistry A*, **2019**, 7, 17782-17789	13	55
94	Accuracy of the one-point in vivo calibration of "wired" glucose oxidase electrodes implanted in jugular veins of rats in periods of rapid rise and decline of the glucose concentration. *Analytical Chemistry*, **1998**, 70, 2149-55	7.8	55
93	Operation of a miniature redox hydrogel-based pyruvate sensor in undiluted deoxygenated calf serum. *Analytical Chemistry*, **2000**, 72, 2963-8	7.8	54
92	FreeStyle: a small-volume electrochemical glucose sensor for home blood glucose testing. *Diabetes Technology and Therapeutics*, **2000**, 2, 221-9	8.1	53
91	Storage of Lithium in Hydrothermally Synthesized GeO2 Nanoparticles. *Journal of Physical Chemistry Letters*, **2013**, 4, 999-1004	6.4	50
90	Wiring of glucose oxidase and lactate oxidase within a hydrogel made with poly(vinyl pyridine) complexed with [Os(4,4?-dimethoxy-2,2?-bipyridine)2Cl]+/2+. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 4131-4136		50
89	Effects of Water, Salt Water, and Silicone Overcoating of the TiO2 Photocatalyst on the Rates and Products of Photocatalytic Oxidation of Liquid 3-Octanol and 3-Octanone. *Environmental Science & Technology*, **1998**, 32, 282-286	10.3	48
88	Capacity Degradation Mechanism and Cycling Stability Enhancement of AlF-Coated Nanorod Gradient Na[NiCoMn]O Cathode for Sodium-Ion Batteries. *ACS Nano*, **2018**, 12, 12912-12922	16.7	47
87	On the Non-Uniform Distribution of Guanine in Introns of Human Genes: Possible Protection of Exons against Oxidation by Proximal Intron Poly-G Sequences *Journal of Physical Chemistry B*, **2001**, 105, 11859-11865	3.4	46
86	Facile Synthesis of Ge/N-Doped Carbon Spheres with Varying Nitrogen Content for Lithium Ion Battery Anodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 27788-27794	9.5	46
85	Li- and Na-reduction products of meso-Co3O4 form high-rate, stably cycling battery anode materials. *Journal of Materials Chemistry A*, **2014**, 2, 14209-14221	13	42
84	Stabilization of Wired Glucose Oxidase Anodes Rotating at 1000 rpm at 37 C. *Journal of the Electrochemical Society*, **1999**, 146, 2965-2967	3.9	41
83	Ionic conduction in Zn3(PO4)2.4H2O enables efficient discharge of the zinc anode in serum. *Journal of the American Chemical Society*, **2005**, 127, 14590-1	16.4	40
82	Rapid amperometric verification of PCR amplification of DNA. *Analytical Chemistry*, **1999**, 71, 535-8	7.8	40
81	Sources of instability of wired enzyme anodes in serum: urate and transition metal ions. *Journal of Electroanalytical Chemistry*, **2001**, 500, 604-611	4.1	39
80	Reduction of the nonspecific binding of a target antibody and of its enzyme-labeled detection probe enabling electrochemical immunoassay of an antibody through the 7 pg/ml-100 ng/mL (40 fM-400 pM) range. *Analytical Chemistry*, **2005**, 77, 7758-62	7.8	38
79	Bilirubin oxidase label for an enzyme-linked affinity assay with O2 as substrate in a neutral pH NACL solution. *Analytical Chemistry*, **2004**, 76, 2411-4	7.8	38

78	Deactivation of bilirubin oxidase by a product of the reaction of urate and O2. *Bioelectrochemistry*, **2004**, 65, 83-8	5.6	36
77	Tin microparticles for a lithium ion battery anode with enhanced cycling stability and efficiency derived from Se-doping. *Journal of Materials Chemistry A*, **2015**, 3, 13500-13506	13	35
76	A miniature, nongassing electroosmotic pump operating at 0.5 V. *Journal of the American Chemical Society*, **2011**, 133, 2374-7	16.4	35
75	Electro-oxidation of glucose at an increased current density at a reducing potential. *Chemical Communications*, **2004**, 2116-7	5.8	35
74	Simple enzyme-amplified amperometric detection of a 38-base oligonucleotide at 20 pmol L(-1) concentration in a 30- microL droplet. *Analytical and Bioanalytical Chemistry*, **2002**, 374, 1050-5	4.4	33
73	Scanning electrochemical microscopy. 44. Imaging of horseradish peroxidase immobilized on insulating substrates. *Analytical Chemistry*, **2002**, 74, 4007-10	7.8	33
72	Elimination of electrooxidizable interferants in glucose electrodes. *Journal of the American Chemical Society*, **1991**, 113, 9003-9004	16.4	33
71	Carbon Nitride Transforms into a High Lithium Storage Capacity Nitrogen-Rich Carbon. *ACS Nano*, **2019**, 13, 9279-9291	16.7	32
70	Electrostatic Control of the Electron-Transfer Enabling Binding of Recombinant Glucose Oxidase and Redox Polyelectrolytes. *Journal of the American Chemical Society*, **1994**, 116, 3617-3618	16.4	32
69	The effect of local lithium surface chemistry and topography on solid electrolyte interphase composition and dendrite nucleation. *Journal of Materials Chemistry A*, **2019**, 7, 14882-14894	13	31
68	Nanorod Gradient Cathode: Preventing Electrolyte Penetration into Cathode Particles. *ACS Applied Energy Materials*, **2019**, 2, 6002-6011	6.1	30
67	A potentially insect-implantable trehalose electrooxidizing anode. *Biosensors and Bioelectronics*, **2006**, 22, 678-84	11.8	30
66	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. *Nature Communications*, **2021**, 12, 6552	17.4	28
65	Increasing the Efficiency of the Photocatalytic Oxidation of Organic Films on Aqueous Solutions by Reactively Coating the TiO2 Photocatalyst with a Chlorinated Silicone. *Journal of Physical Chemistry B*, **1997**, 101, 2621-2624	3.4	26
64	Recent Developments in Dendrite-Free Lithium-Metal Deposition through Tailoring of Micro- and Nanoscale Artificial Coatings. *ACS Nano*, **2021**, 15, 29-46	16.7	25
63	Sub-stoichiometric germanium sulfide thin-films as a high-rate lithium storage material. *Journal of Materials Chemistry A*, **2014**, 2, 19011-19018	13	24
62	Self-Assembled Cu-Sn-S Nanotubes with High (De)Lithiation Performance. *ACS Nano*, **2017**, 11, 10347-10356	16.7	24
61	Lithium Insertion/Deinsertion Characteristics of Nanostructured Amorphous Tantalum Oxide Thin Films. *ChemElectroChem*, **2014**, 1, 158-164	4.3	24

60	Stabilization of a Highly Ni-Rich Layered Oxide Cathode through Flower-Petal Grain Arrays. *ACS Nano*, **2020**,	16.7	23
59	Liquid crystal membranes for serum-compatible diabetes management-assisting subcutaneously implanted amperometric glucose sensors. *Analytical Chemistry*, **2008**, 80, 1746-55	7.8	22
58	On-line glucose monitoring by using microdialysis sampling and amperometric detection based on wired glucose oxidase in carbon paste. *Mikrochimica Acta*, **1995**, 121, 31-40	5.8	22
57	Reduced-Graphene Oxide/Poly(acrylic acid) Aerogels as a Three-Dimensional Replacement for Metal-Foil Current Collectors in Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 22641-22651	9.5	21
56	Mechanical and Electrochemical Characteristics of Composites of Wired Glucose Oxidase and Hydrophilic Graphite. *Journal of the Electrochemical Society*, **2000**, 147, 2780	3.9	21
55	Statistics for critical clinical decision making based on readings of pairs of implanted sensors. *Analytical Chemistry*, **1996**, 68, 2845-9	7.8	21
54	Fast lithium transport in PbTe for lithium-ion battery anodes. *Journal of Materials Chemistry A*, **2014** , 2, 7238	13	20
53	Mechanical and chemical protection of a wired enzyme oxygen cathode by a cubic phase lyotropic liquid crystal. *Analytical Chemistry*, **2007**, 79, 1173-80	7.8	20
52	Direkter Elektronenaustausch zwischen Graphitelektroden und einem adsorbierten Komplex aus Glucose-Oxidase und einem Os-haltigen Redoxpolymer. *Angewandte Chemie*, **1990**, 102, 109-111	3.6	20
51	Lithium Fluoride Coated Silicon Nanocolumns as Anodes for Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 18465-18472	9.5	18
50	Enhanced Electrochemical Performance of a Tin–Antimony Alloy/N-Doped Carbon Nanocomposite as a Sodium-Ion Battery Anode. *ChemElectroChem*, **2018**, 5, 391-396	4.3	18
49	Irreversible and Reversible Deactivation of Bilirubin Oxidase by Urate. *Electroanalysis*, **2007**, 19, 638-643	3	17
48	Lithiation and Delithiation of Lead Sulfide (PbS). *Journal of the Electrochemical Society*, **2015**, 162, A1182-A1185	3.9	16
47	Stabilization of a Bilirubin Oxidase-Wiring Redox Polymer by Quaternization and Characteristics of the Resulting O[sub 2] Cathode. *Journal of the Electrochemical Society*, **2009**, 156, F87	3.9	16
46	Apoptosis-inducing high (.)NO concentrations are not sustained either in nascent or in developed cancers. *ChemMedChem*, **2008**, 3, 1493-9	3.7	16
45	Deep Ultraviolet Photoresist Based on Tungsten Polyoxometalates and Poly(Vinyl Alcohol) for Bilayer Photolithography. *Journal of the Electrochemical Society*, **1992**, 139, 786-793	3.9	16
44	A Stable Ag/Ceramic-Membrane/Ag2O Electroosmotic Pump Built with a Mesoporous Phosphosilicate-on-Silica Frit Membrane. *Journal of the Electrochemical Society*, **2011**, 159, P14-P17	3.9	15
43	Lead Oxide Microparticles Coated by Ethylenediamine-Cross-Linked Graphene Oxide for Lithium Ion Battery Anodes. *ACS Applied Energy Materials*, **2019**, 2, 3017-3020	6.1	14

42	Effect of the Electrolyte on the Cycling Efficiency of Lithium-Limited Cells and their Morphology Studied Through in Situ Optical Imaging. *ACS Applied Energy Materials*, **2018**, 1, 5830-5835	6.1	14
41	Separator-free and concentrated LiNO3 electrolyte cells enable uniform lithium electrodeposition. *Journal of Materials Chemistry A*, **2020**, 8, 3999-4006	13	13
40	Communication: Stages in the Dynamic Electrochemical Lithiation of Lead. *Journal of the Electrochemical Society*, **2016**, 163, A1027-A1029	3.9	13
39	Association of Type 2 Diabetes with Submicron Titanium Dioxide Crystals in the Pancreas. *Chemical Research in Toxicology*, **2018**, 31, 506-509	4	12
38	Simple Microwave-Assisted Synthesis of Delafossite CuFeO2 as an Anode Material for Sodium-Ion Batteries. *ChemElectroChem*, **2018**, 5, 2419-2423	4.3	12
37	CuSnS-Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. *ACS Nano*, **2019**, 13, 10671-10681	16.7	10
36	APPLICATION OF PHOTOCATALYTIC HOLLOW GLASS MICROBEADS IN THE CLEANUP OF OIL SPILLS. *International Oil Spill Conference Proceedings*, **1993**, 1993, 623-627		10
35	Electrodeposition of Redox Polymers and Co-Electrodeposition of Enzymes by Coordinative Crosslinking. *Angewandte Chemie*, **2002**, 114, 838-841	3.6	9
34	A miniature, single use, skin-adhered, low-voltage, electroosmotic pumping-based subcutaneous infusion system. *Drug Delivery and Translational Research*, **2011**, 1, 342-7	6.2	8
33	Optimization Of "Wired" Enzyme O2-Electroreduction Catalyst Compositions by Scanning Electrochemical Microscopy. *Angewandte Chemie*, **2004**, 116, 6515-6517	3.6	8
32	Micropatterned Films of Tungsten Nuclei for Subsequent Metallization Formed of a Phosphotungstic Acid-Based Negative Resist. *Journal of the Electrochemical Society*, **1992**, 139, 2889-2894	3.9	8
31	Compact Lithium-Ion Battery Electrodes with Lightweight Reduced Graphene Oxide/Poly(Acrylic Acid) Current Collectors. *ACS Applied Energy Materials*, **2019**, 2, 905-912	6.1	8
30	Facile Synthesis of a Tin Oxide-Carbon Composite Lithium-Ion Battery Anode with High Capacity Retention. *ACS Applied Energy Materials*, **2019**, 2, 7244-7255	6.1	7
29	Electrogenerated chemiluminescence in an electrodeposited redox hydrogel. *Electrochemistry Communications*, **2009**, 11, 599-602	5.1	7
28	Electrodeposition of the NaK Alloy with a Liquid Organic Electrolyte. *ACS Applied Energy Materials*, **2019**, 2, 3009-3012	6.1	6
27	Obviating the need for nanocrystallites in the extended lithiation/de-lithiation of germanium. *Journal of Materials Chemistry A*, **2015**, 3, 23442-23447	13	6
26	Sulfur-Rich Molybdenum Sulfide as a Cathode Material for Room Temperature Sodium–Sulfur Batteries. *ACS Applied Energy Materials*, **2020**, 3, 6121-6126	6.1	6
25	Electrochemical Glucose Sensors and Their Application in Diabetes Management. *Modern Aspects of Electrochemistry*, **2013**, 121-187		6

24	Defining the period of recovery of the glucose concentration after its local perturbation by the implantation of a miniature sensor. *Clinical Chemistry and Laboratory Medicine*, **2002**, 40, 786-9	5.9	6
23	'Wiring' of lactate oxidase within a low-redox potential electron-conducting hydrogel. *Journal of Molecular Recognition*, **1996**, 9, 626-30	2.6	6
22	Controlled Prelithiation of PbS to Pb/Li2S for High Initial Coulombic Efficiency in Lithium Ion Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A1939-A1943	3.9	5
21	Electrochemistry and nitric oxide mass transport in cancer: why ingestion of sodium nitrite could be effective in treating vascularized tumors. *Physical Chemistry Chemical Physics*, **2010**, 12, 9972-5	3.6	5
20	An Oxidizable Anion-Excluding Polymer-Overlayer for Oxygen Electrodes. *Electroanalysis*, **2009**, 21, 2709-2712	3	5
19	Chemical engineering challenges and investment opportunities in sustainable energy. *ChemSusChem*, **2008**, 1, 651-2	8.3	5
18	Linear Dependence of the Potential of Wired Glucose Oxidase Electrodes on the Concentration of Glucose. *Journal of Physical Chemistry B*, **1998**, 102, 10057-10061	3.4	5
17	Li-Zn Overlayer to Facilitate Uniform Lithium Deposition for Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 9985-9993	9.5	5
16	The need for monitoring the actual nitric oxide concentration in tumors. *Bioanalytical Reviews*, **2009**, 1, 3-6	1	4
15	A Simple Non-Gassing, Direct Current, Electro-Osmotic Pump: Carbon Paper/Ceramic Frit/Carbon Paper. *ChemElectroChem*, **2014**, 1, 868-870	4.3	3
14	Electrical Communication between Glucose Oxidase and Electrodes Based on Poly(vinylimidazole) Complex of Bis(2,2?-bipyridine)-N,N?-dichloroosmium. *ACS Symposium Series*, **1994**, 307-317	0.4	3
13	Hydrogen Peroxide Electrodes Based on Electrical Connection of Redox Centers. *ACS Symposium Series*, **1994**, 180-192	0.4	3
12	Sulfur-Rich Molybdenum Sulfide as an Anode Coating to Improve Performance of Lithium Metal Batteries. *ChemElectroChem*, **2020**, 7, 222-228	4.3	3
11	Detlev M ller's Discovery of Glucose Oxidase in 1925. *Analytical Chemistry*, **2021**, 93, 7148-7149	7.8	3
10	Obesity-Dependent Accumulation of Titanium in the Pancreas of Type 2 Diabetic Donors. *Chemical Research in Toxicology*, **2019**, 32, 1351-1356	4	2
9	Crystals in the Substantia Nigra. *ACS Chemical Neuroscience*, **2019**, 10, 3415-3418	5.7	2
8	Improvement of the sodiation/de-sodiation stability of Sn(C) by electrochemically inactive Na2Se. *RSC Advances*, **2015**, 5, 82012-82017	3.7	2
7	Electron Conducting Adducts of Water-Soluble Redox Polyelectrolytes and Enzymes. *Advances in Molecular and Cell Biology*, **1996**, 391-409		2

6	Enhancement of the Stability of Wired Quinoprotein Glucose Dehydrogenase Electrode. *ACS Symposium Series*, **1994**, 34-40	0.4	2
5	A Stable Lead (II) Oxide-Carbon Composite Anode Candidate for Secondary Lithium Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 060509	3.9	2
4	Potentially Pathogenic Calcium Oxalate Dihydrate and Titanium Dioxide Crystals in the Alzheimer's Disease Entorhinal Cortex. *Journal of Alzheimer's Disease*, **2020**, 77, 547-550	4.3	2
3	A Conversation with Adam Heller. *Annual Review of Chemical and Biomolecular Engineering*, **2015**, 6, 1-12	8.9	1
2	Searching for new truths of nature and creating people-serving products through bio-electrochemistry: The brain interface. *Current Opinion in Electrochemistry*, **2018**, 12, 3-4	7.2	1
1	Intellectual-Integrity in Government-Funded Research. *Israel Journal of Chemistry*, **2021**, 61, 6-10	3.4	