

# Adam Heller

## List of Publications by Year in Descending Order

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

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	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 6552	17.4	28
166	Detlev Müller's Discovery of Glucose Oxidase in 1925. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7148-7149	7.8	3
165	Intellectual-Integrity in Government-Funded Research. <i>Israel Journal of Chemistry</i> , <b>2021</b> , 61, 6-10	3.4	
164	Recent Developments in Dendrite-Free Lithium-Metal Deposition through Tailoring of Micro- and Nanoscale Artificial Coatings. <i>ACS Nano</i> , <b>2021</b> , 15, 29-46	16.7	25
163	Li-Zn Overlayer to Facilitate Uniform Lithium Deposition for Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 9985-9993	9.5	5
162	Stabilization of a Highly Ni-Rich Layered Oxide Cathode through Flower-Petal Grain Arrays. <i>ACS Nano</i> , <b>2020</b> ,	16.7	23
161	Lithium Fluoride Coated Silicon Nanocolumns as Anodes for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18465-18472	9.5	18
160	Beyond Doping and Coating: Prospective Strategies for Stable High-Capacity Layered Ni-Rich Cathodes. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1136-1146	20.1	161
159	Sulfur-Rich Molybdenum Sulfide as a Cathode Material for Room Temperature Sodium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6121-6126	6.1	6
158	Separator-free and concentrated LiNO <sub>3</sub> electrolyte cells enable uniform lithium electrodeposition. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3999-4006	13	13
157	Electrode Degradation in Lithium-Ion Batteries. <i>ACS Nano</i> , <b>2020</b> , 14, 1243-1295	16.7	209
156	Sulfur-Rich Molybdenum Sulfide as an Anode Coating to Improve Performance of Lithium Metal Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 222-228	4.3	3
155	A Stable Lead (II) Oxide-Carbon Composite Anode Candidate for Secondary Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 060509	3.9	2
154	Potentially Pathogenic Calcium Oxalate Dihydrate and Titanium Dioxide Crystals in the Alzheimer's Disease Entorhinal Cortex. <i>Journal of Alzheimers Disease</i> , <b>2020</b> , 77, 547-550	4.3	2
153	CuSnS-Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. <i>ACS Nano</i> , <b>2019</b> , 13, 10671-10681	16.7	10
152	Facile Synthesis of a Tin Oxide-Carbon Composite Lithium-Ion Battery Anode with High Capacity Retention. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7244-7255	6.1	7
151	Obesity-Dependent Accumulation of Titanium in the Pancreas of Type 2 Diabetic Donors. <i>Chemical Research in Toxicology</i> , <b>2019</b> , 32, 1351-1356	4	2

150	The effect of local lithium surface chemistry and topography on solid electrolyte interphase composition and dendrite nucleation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14882-14894	13	31
149	Electrodeposition of the NaK Alloy with a Liquid Organic Electrolyte. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3009-3012	6.1	6
148	Lead Oxide Microparticles Coated by Ethylenediamine-Cross-Linked Graphene Oxide for Lithium Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3017-3020	6.1	14
147	Carbon Nitride Transforms into a High Lithium Storage Capacity Nitrogen-Rich Carbon. <i>ACS Nano</i> , <b>2019</b> , 13, 9279-9291	16.7	32
146	Nanorod Gradient Cathode: Preventing Electrolyte Penetration into Cathode Particles. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6002-6011	6.1	30
145	In situ formation of a multicomponent inorganic-rich SEI layer provides a fast charging and high specific energy Li-metal battery. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17782-17789	13	55
144	Controlled Prelithiation of PbS to Pb/Li <sub>2</sub> S for High Initial Coulombic Efficiency in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1939-A1943	3.9	5
143	Crystals in the Substantia Nigra. <i>ACS Chemical Neuroscience</i> , <b>2019</b> , 10, 3415-3418	5.7	2
142	Compact Lithium-Ion Battery Electrodes with Lightweight Reduced Graphene Oxide/Poly(Acrylic Acid) Current Collectors. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 905-912	6.1	8
141	Searching for new truths of nature and creating people-serving products through bio-electrochemistry: The brain interface. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 12, 3-4	7.2	1
140	Enhanced Electrochemical Performance of a Tin-Antimony Alloy/N-Doped Carbon Nanocomposite as a Sodium-Ion Battery Anode. <i>ChemElectroChem</i> , <b>2018</b> , 5, 391-396	4.3	18
139	Capacity Degradation Mechanism and Cycling Stability Enhancement of AlF-Coated Nanorod Gradient Na[NiCoMn]O Cathode for Sodium-Ion Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 12912-12922	16.7	47
138	Effect of the Electrolyte on the Cycling Efficiency of Lithium-Limited Cells and their Morphology Studied Through in Situ Optical Imaging. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5830-5835	6.1	14
137	Association of Type 2 Diabetes with Submicron Titanium Dioxide Crystals in the Pancreas. <i>Chemical Research in Toxicology</i> , <b>2018</b> , 31, 506-509	4	12
136	Simple Microwave-Assisted Synthesis of Delafossite CuFeO <sub>2</sub> as an Anode Material for Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 2419-2423	4.3	12
135	Reduced-Graphene Oxide/Poly(acrylic acid) Aerogels as a Three-Dimensional Replacement for Metal-Foil Current Collectors in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22641-22651	9.5	21
134	Self-Assembled Cu-Sn-S Nanotubes with High (De)Lithiation Performance. <i>ACS Nano</i> , <b>2017</b> , 11, 10347-10356	15.6	24
133	In Situ Optical Imaging of Sodium Electrodeposition: Effects of Fluoroethylene Carbonate. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2051-2057	20.1	71

132	Simple Synthesis of Nanocrystalline Tin Sulfide/N-Doped Reduced Graphene Oxide Composites as Lithium Ion Battery Anodes. <i>ACS Nano</i> , <b>2016</b> , 10, 10778-10788	16.7	146
131	Simple Synthesis of Nanostructured Sn/Nitrogen-Doped Carbon Composite Using Nitrilotriacetic Acid as Lithium Ion Battery Anode. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1343-1347	9.6	106
130	Communication Stages in the Dynamic Electrochemical Lithiation of Lead. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A1027-A1029	3.9	13
129	A Simple Synthesis of an N-Doped Carbon ORR Catalyst: Hierarchical Micro/Meso/Macro Porosity and Graphitic Shells. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 501-5	4.8	71
128	Facile Synthesis of Ge/N-Doped Carbon Spheres with Varying Nitrogen Content for Lithium Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27788-27794	9.5	46
127	K <sup>+</sup> Reduces Lithium Dendrite Growth by Forming a Thin, Less-Resistive Solid Electrolyte Interphase. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 414-419	20.1	57
126	Obviating the need for nanocrystallites in the extended lithiation/de-lithiation of germanium. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23442-23447	13	6
125	A Conversation with Adam Heller. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2015</b> , 6, 1-128.9		1
124	Lithiation and Delithiation of Lead Sulfide (PbS). <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A11823-A11856	23.9	11856
123	Tin microparticles for a lithium ion battery anode with enhanced cycling stability and efficiency derived from Se-doping. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 13500-13506	13	35
122	Improvement of the sodiation/de-sodiation stability of Sn(C) by electrochemically inactive Na <sub>2</sub> Se. <i>RSC Advances</i> , <b>2015</b> , 5, 82012-82017	3.7	2
121	Sub-stoichiometric germanium sulfide thin-films as a high-rate lithium storage material. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19011-19018	13	24
120	Fast lithium transport in PbTe for lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7238	13	20
119	Li- and Na-reduction products of meso-Co <sub>3</sub> O <sub>4</sub> form high-rate, stably cycling battery anode materials. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14209-14221	13	42
118	A Simple Non-Gassing, Direct Current, Electro-Osmotic Pump: Carbon Paper/Ceramic Frit/Carbon Paper. <i>ChemElectroChem</i> , <b>2014</b> , 1, 868-870	4.3	3
117	Lithium Insertion/Deinsertion Characteristics of Nanostructured Amorphous Tantalum Oxide Thin Films. <i>ChemElectroChem</i> , <b>2014</b> , 1, 158-164	4.3	24
116	Nanocolumnar Germanium Thin Films as a High-Rate Sodium-Ion Battery Anode Material. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 18885-18890	3.8	150
115	Electrochemical Glucose Sensors and Their Application in Diabetes Management. <i>Modern Aspects of Electrochemistry</i> , <b>2013</b> , 121-187		6

114	Nanostructured Si(Ex)Gex for tunable thin film lithium-ion battery anodes. <i>ACS Nano</i> , <b>2013</b> , 7, 2249-57	16.7	130
113	Storage of Lithium in Hydrothermally Synthesized GeO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 999-1004	6.4	50
112	SnO <sub>2</sub> and TiO <sub>2</sub> -supported-SnO <sub>2</sub> lithium battery anodes with improved electrochemical performance. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 11134		65
111	Improving the stability of nanostructured silicon thin film lithium-ion battery anodes through their controlled oxidation. <i>ACS Nano</i> , <b>2012</b> , 6, 2506-16	16.7	143
110	Fe <sub>2</sub> O <sub>3</sub> Nanorods as Anode Material for Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2885-2891	6.4	271
109	A miniature, nongassing electroosmotic pump operating at 0.5 V. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2374-7	16.4	35
108	A miniature, single use, skin-adhered, low-voltage, electroosmotic pumping-based subcutaneous infusion system. <i>Drug Delivery and Translational Research</i> , <b>2011</b> , 1, 342-7	6.2	8
107	A Stable Ag/Ceramic-Membrane/Ag <sub>2</sub> O Electroosmotic Pump Built with a Mesoporous Phosphosilicate-on-Silica Frit Membrane. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, P14-P17	3.9	15
106	Electrochemistry and nitric oxide mass transport in cancer: why ingestion of sodium nitrite could be effective in treating vascularized tumors. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 9972-5	3.6	5
105	Electrochemistry in diabetes management. <i>Accounts of Chemical Research</i> , <b>2010</b> , 43, 963-73	24.3	180
104	Stabilization of a Bilirubin Oxidase-Wiring Redox Polymer by Quaternization and Characteristics of the Resulting O <sub>2</sub> Cathode. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, F87	3.9	16
103	An Oxidizable Anion-Excluding Polymer-Overlayer for Oxygen Electrodes. <i>Electroanalysis</i> , <b>2009</b> , 21, 2709-2712	5	5
102	The need for monitoring the actual nitric oxide concentration in tumors. <i>Bioanalytical Reviews</i> , <b>2009</b> , 1, 3-6	1	4
101	Electrogenerated chemiluminescence in an electrodeposited redox hydrogel. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 599-602	5.1	7
100	Liquid crystal membranes for serum-compatible diabetes management-assisting subcutaneously implanted amperometric glucose sensors. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1746-55	7.8	22
99	Apoptosis-inducing high (.)NO concentrations are not sustained either in nascent or in developed cancers. <i>ChemMedChem</i> , <b>2008</b> , 3, 1493-9	3.7	16
98	Chemical engineering challenges and investment opportunities in sustainable energy. <i>ChemSusChem</i> , <b>2008</b> , 1, 651-2	8.3	5
97	Electrochemical glucose sensors and their applications in diabetes management. <i>Chemical Reviews</i> , <b>2008</b> , 108, 2482-505	68.1	1199

96	Mechanical and chemical protection of a wired enzyme oxygen cathode by a cubic phase lyotropic liquid crystal. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 1173-80	7.8	20
95	Irreversible and Reversible Deactivation of Bilirubin Oxidase by Urate. <i>Electroanalysis</i> , <b>2007</b> , 19, 638-643	3	17
94	An electron-conducting cross-linked polyaniline-based redox hydrogel, formed in one step at pH 7.2, wires glucose oxidase. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7006-7	16.4	103
93	Potentially implantable miniature batteries. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 469-73	4.4	152
92	On the stability of the "wired" bilirubin oxidase oxygen cathode in serum. <i>Bioelectrochemistry</i> , <b>2006</b> , 68, 22-6	5.6	73
91	A laccase-wiring redox hydrogel for efficient catalysis of O <sub>2</sub> electroreduction. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 11180-7	3.4	175
90	A potentially insect-implantable trehalose electrooxidizing anode. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 22, 678-84	11.8	30
89	Electron-conducting redox hydrogels: Design, characteristics and synthesis. <i>Current Opinion in Chemical Biology</i> , <b>2006</b> , 10, 664-72	9.7	298
88	Ionic conduction in Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ·4H <sub>2</sub> O enables efficient discharge of the zinc anode in serum. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14590-1	16.4	40
87	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. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 7758-62	7.8	38
86	On the parameters affecting the characteristics of the wired glucose oxidase anode. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 574, 347-357	4.1	105
85	Optimization of "wired" enzyme O <sub>2</sub> -electroreduction catalyst compositions by scanning electrochemical microscopy. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 6355-7	16.4	58
84	Optimization Of Wired Enzyme O <sub>2</sub> -Electroreduction Catalyst Compositions by Scanning Electrochemical Microscopy. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 6515-6517	3.6	8
83	A miniature membrane-less biofuel cell operating at +0.60 V under physiological conditions. <i>ChemBioChem</i> , <b>2004</b> , 5, 1703-5	3.8	131
82	Deactivation of bilirubin oxidase by a product of the reaction of urate and O <sub>2</sub> . <i>Bioelectrochemistry</i> , <b>2004</b> , 65, 83-8	5.6	36
81	Electro-oxidation of glucose at an increased current density at a reducing potential. <i>Chemical Communications</i> , <b>2004</b> , 2116-7	5.8	35
80	A four-electron O(2)-electroreduction biocatalyst superior to platinum and a biofuel cell operating at 0.88 V. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8368-9	16.4	278
79	Bilirubin oxidase label for an enzyme-linked affinity assay with O <sub>2</sub> as substrate in a neutral pH NaCl solution. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 2411-4	7.8	38

78	Miniature biofuel cells. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 209	3.6	590
77	A Miniature Membrane-less Biofuel Cell Operating under Physiological Conditions at 0.5 V. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A209	3.9	126
76	Characteristics of a miniature compartment-less glucose-O <sub>2</sub> biofuel cell and its operation in a living plant. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 6588-94	16.4	471
75	Enzyme-amplified amperometric detection of 3000 copies of DNA in a 10-microL droplet at 0.5 fM concentration. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3267-9	7.8	136
74	A Miniature Membraneless Biofuel Cell Operating at 0.36 V under Physiological Conditions. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A1136	3.9	96
73	Oxygen is electroreduced to water on a "wired" enzyme electrode at a lesser overpotential than on platinum. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 15290-1	16.4	187
72	Long tethers binding redox centers to polymer backbones enhance electron transport in enzyme "Wiring" hydrogels. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4951-7	16.4	339
71	A miniature biofuel cell operating at 0.78 V. <i>Chemical Communications</i> , <b>2003</b> , 518-9	5.8	123
70	Electrodeposition of Redox Polymers and Co-Electrodeposition of Enzymes by Coordinative Crosslinking. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 838-841	3.6	9
69	Electrodeposition of redox polymers and co-electrodeposition of enzymes by coordinative crosslinking. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 810-3	16.4	106
68	Simple enzyme-amplified amperometric detection of a 38-base oligonucleotide at 20 pmol L <sup>-1</sup> concentration in a 30- microL droplet. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 374, 1050-5	4.4	33
67	Electroreduction of O <sub>2</sub> to water at 0.6 V (SHE) at pH 7 on the "wired" <i>Pleurotus ostreatus</i> laccase cathode. <i>Biosensors and Bioelectronics</i> , <b>2002</b> , 17, 1071-4	11.8	92
66	Defining the period of recovery of the glucose concentration after its local perturbation by the implantation of a miniature sensor. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2002</b> , 40, 786-9	5.9	6
65	Scanning electrochemical microscopy. 44. Imaging of horseradish peroxidase immobilized on insulating substrates. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4007-10	7.8	33
64	Enzyme-amplified amperometric sandwich test for RNA and DNA. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 158-62	7.8	130
63	Screen printing of nucleic acid detecting carbon electrodes. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4370-7	7.8	110
62	A miniature biofuel cell operating in a physiological buffer. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12962-3	16.4	265
61	An oxygen cathode operating in a physiological solution. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 6480-6	16.4	194

60	On the Relationship between the Characteristics of Bilirubin Oxidases and O <sub>2</sub> Cathodes Based on Their Wiring <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 8842-8848	3.4	131
59	Sources of instability of wired enzyme anodes in serum: urate and transition metal ions. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 500, 604-611	4.1	39
58	A miniature biofuel cell. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8630-1	16.4	380
57	On the Non-Uniform Distribution of Guanine in Introns of Human Genes: Possible Protection of Exons against Oxidation by Proximal Intron Poly-G Sequences <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 11859-11865	3.4	46
56	Electroreduction of O <sub>2</sub> to Water on the Wired Laccase Cathode <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 11917-11921	3.4	180
55	The "wired" laccase cathode: high current density electroreduction of O(2) to water at +0.7 V (NHE) at pH 5. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5802-3	16.4	194
54	Mechanical and Electrochemical Characteristics of Composites of Wired Glucose Oxidase and Hydrophilic Graphite. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 2780	3.9	21
53	In situ assembled mass-transport controlling micromembranes and their application in implanted amperometric glucose sensors. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 3757-63	7.8	63
52	Operation of a miniature redox hydrogel-based pyruvate sensor in undiluted deoxygenated calf serum. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 2963-8	7.8	54
51	FreeStyle: a small-volume electrochemical glucose sensor for home blood glucose testing. <i>Diabetes Technology and Therapeutics</i> , <b>2000</b> , 2, 221-9	8.1	53
50	Stabilization of Wired Glucose Oxidase Anodes Rotating at 1000 rpm at 37°C. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 2965-2967	3.9	41
49	Rapid amperometric verification of PCR amplification of DNA. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 535-8	7.8	40
48	Implanted electrochemical glucose sensors for the management of diabetes. <i>Annual Review of Biomedical Engineering</i> , <b>1999</b> , 1, 153-75	12	181
47	Stability of Oxidases Immobilized in Silica Gels. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 4582-4585	16.4	165
46	Linear Dependence of the Potential of Wired Glucose Oxidase Electrodes on the Concentration of Glucose. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 10057-10061	3.4	5
45	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. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2149-55	7.8	55
44	Effects of Water, Salt Water, and Silicone Overcoating of the TiO <sub>2</sub> Photocatalyst on the Rates and Products of Photocatalytic Oxidation of Liquid 3-Octanol and 3-Octanone. <i>Environmental Science &amp; Technology</i> , <b>1998</b> , 32, 282-286	10.3	48
43	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. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 4586-4590	16.4	80



42	Increasing the Efficiency of the Photocatalytic Oxidation of Organic Films on Aqueous Solutions by Reactively Coating the TiO <sub>2</sub> Photocatalyst with a Chlorinated Silicone. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 2621-2624	3.4	26
41	Electrochemical glucose and lactate sensors based on "wired" thermostable soybean peroxidase operating continuously and stably at 37 degrees C. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 1054-60	7.8	104
40	Biocompatible, glucose-permeable hydrogel for in situ coating of implantable biosensors. <i>Biomaterials</i> , <b>1997</b> , 18, 1665-70	15.6	103
39	Effect of Quaternization of the Glucose Oxidase "Wiring" Redox Polymer on the Maximum Current Densities of Glucose Electrodes. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 3719-3727		93
38	Electron Conducting Adducts of Water-Soluble Redox Polyelectrolytes and Enzymes. <i>Advances in Molecular and Cell Biology</i> , <b>1996</b> , 391-409		2
37	Statistics for critical clinical decision making based on readings of pairs of implanted sensors. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 2845-9	7.8	21
36	"Wiring" of glucose oxidase and lactate oxidase within a hydrogel made with poly(vinyl pyridine) complexed with [Os(4,4'-dimethoxy-2,2'-bipyridine) <sub>2</sub> Cl] <sup>+2+</sup> . <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 4131-4136		50
35	'Wiring' of lactate oxidase within a low-redox potential electron-conducting hydrogel. <i>Journal of Molecular Recognition</i> , <b>1996</b> , 9, 626-30	2.6	6
34	On-line glucose monitoring by using microdialysis sampling and amperometric detection based on "wired" glucose oxidase in carbon paste. <i>Mikrochimica Acta</i> , <b>1995</b> , 121, 31-40	5.8	22
33	"Wiring" of glucose oxidase within a hydrogel made with polyvinyl imidazole complexed with [(Os-4,4'-dimethoxy-2,2'-bipyridine)Cl] <sup>+2+</sup> . <i>Journal of Electroanalytical Chemistry</i> , <b>1995</b> , 396, 511-515	4.1	87
32	Photo-crosslinked copolymers of 2-hydroxyethyl methacrylate, poly(ethylene glycol) tetra-acrylate and ethylene dimethacrylate for improving biocompatibility of biosensors. <i>Biomaterials</i> , <b>1995</b> , 16, 389-96	15.6	155
31	Effect of quaternization on electron diffusion coefficients for redox hydrogels based on poly(4-vinylpyridine). <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 5102-5110		78
30	Design and optimization of a selective subcutaneously implantable glucose electrode based on "wired" glucose oxidase. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 1240-4	7.8	114
29	Polyacrylamide-based redox polymer for connecting redox centers of enzymes to electrodes. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 1332-8	7.8	104
28	Electrical Communication between Glucose Oxidase and Electrodes Based on Poly(vinylimidazole) Complex of Bis(2,2'-bipyridine)-N,N'-dichloroosmium. <i>ACS Symposium Series</i> , <b>1994</b> , 307-317	0.4	3
27	Design, characterization, and one-point in vivo calibration of a subcutaneously implanted glucose electrode. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 3131-8	7.8	91
26	Enhancement of the Stability of Wired Quinoprotein Glucose Dehydrogenase Electrode. <i>ACS Symposium Series</i> , <b>1994</b> , 34-40	0.4	2
25	"Wired" enzyme electrodes for amperometric determination of glucose or lactate in the presence of interfering substances. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 2451-7	7.8	327

24	Electrostatic Control of the Electron-Transfer Enabling Binding of Recombinant Glucose Oxidase and Redox Polyelectrolytes. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 3617-3618	16.4	32
23	Hydrogen Peroxide Electrodes Based on Electrical Connection of Redox Centers. <i>ACS Symposium Series</i> , <b>1994</b> , 180-192	0.4	3
22	Glucose electrodes based on cross-linked [Os(bpy) <sub>2</sub> Cl] <sup>+2</sup> complexed poly(1-vinylimidazole) films. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3512-7	7.8	230
21	High current density "wired" quinoprotein glucose dehydrogenase electrode. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 238-241	7.8	160
20	Scanning electrochemical microscopy. 24. Enzyme ultramicroelectrodes for the measurement of hydrogen peroxide at surfaces. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3605-14	7.8	165
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18	APPLICATION OF PHOTOCATALYTIC HOLLOW GLASS MICROBEADS IN THE CLEANUP OF OIL SPILLS. <i>International Oil Spill Conference Proceedings</i> , <b>1993</b> , 1993, 623-627		10
17	Micropatterned Films of Tungsten Nuclei for Subsequent Metallization Formed of a Phosphotungstic Acid-Based Negative Resist. <i>Journal of the Electrochemical Society</i> , <b>1992</b> , 139, 2889-2894	3.9	8
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14	Elimination of electrooxidizable interferant-produced currents in amperometric biosensors. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 2889-96	7.8	102
13	Electrical connection of enzyme redox centers to electrodes. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 3579-3587		539
12	Electron transfer between glucose oxidase and electrodes via redox mediators bound with flexible chains to the enzyme surface. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 1394-1397	16.4	318
11	Redox polymer films containing enzymes. 2. Glucose oxidase containing enzyme electrodes. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 5976-5980		182
10	Elimination of electrooxidizable interferants in glucose electrodes. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 9003-9004	16.4	33
9	Redox polymer films containing enzymes. 1. A redox-conducting epoxy cement: synthesis, characterization, and electrocatalytic oxidation of hydroquinone. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 5970-5975		238
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7	Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 258-63	7.8	397

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