

Donald Tryk

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.

204
papers

24,401
citations

67
h-index

155
g-index

224
ext. papers

25,663
ext. citations

4.8
avg, IF

6.92
L-index

#	Paper	IF	Citations
204	Particle-Size Effect of Pt Anode Catalysts on H ₂ O ₂ Production Rate and H ₂ Oxidation Activity at 20 to 80 °C. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 014516	3.9	1
203	Effect of water management in membrane and cathode catalyst layers on suppressing the performance hysteresis phenomenon in anion-exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2022 , 522, 230997	8.9	1
202	Pt Nanorods Oriented on Gd-Doped Ceria Polyhedra Enable Superior Oxygen Reduction Catalysis for Fuel Cells. <i>Journal of Catalysis</i> , 2022 , 407, 300-300	7.3	3
201	Properties and Morphologies of Anion-Exchange Membranes with Different Lengths of Fluorinated Hydrophobic Chains.. <i>ACS Omega</i> , 2022 , 7, 13577-13587	3.9	0
200	Temperature Dependence of Oxygen Reduction Activity at Pt/Nb-Doped SnO ₂ Catalysts with Varied Pt Loading. <i>ACS Catalysis</i> , 2021 , 11, 5222-5230	13.1	12
199	Performance hysteresis phenomena of anion exchange membrane fuel cells using an FeNiO ₂ cathode catalyst and an in-house-developed polymer electrolyte. <i>Journal of Power Sources</i> , 2021 , 487, 229407	8.9	3
198	Enhanced oxygen reduction electrocatalysis on PtCoSn alloy nanocatalyst mediated by Ta-doped SnO ₂ support for polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2021 , 390, 138894	6.7	4
197	A Simple Analytical Approach for Fitting Steady-State Polarization Behavior of Polymer Electrolyte Fuel Cells Using Tafel Slope Component Analysis (TSCA). <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 2177-2177	9	1
196	Unparalleled mitigation of membrane degradation in fuel cells via a counter-intuitive approach: suppression of H ₂ O ₂ production at the hydrogen anode using a Pt _{skin} /PtCo catalyst. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1091-1094	13	7
195	High hydrogen evolution activity and suppressed HO ₂ production on Pt-skin/PtFe alloy nanocatalysts for proton exchange membrane water electrolysis. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2861-2865	3.6	8
194	The Role of Carbon Blacks as Catalyst Supports and Structural Elements in Polymer Electrolyte Fuel Cells. <i>Nanostructure Science and Technology</i> , 2019 , 81-118	0.9	2
193	Effect of core-alloy composition and particle size of stabilized Pt Skin/PtCo alloy nanocatalysts on the CO-Tolerant hydrogen oxidation electrocatalysis. <i>Electrochimica Acta</i> , 2019 , 328, 135056	6.7	6
192	Atomically Flat Pt Skin and Striking Enrichment of Co in Underlying Alloy at PtCo(111) Single Crystal with Unprecedented Activity for the Oxygen Reduction Reaction. <i>ACS Omega</i> , 2018 , 3, 154-158	3.9	22
191	(Invited)Recent Progress in the Understanding of the Electrocatalysis of the CO-Tolerant Hydrogen Oxidation Reaction in Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2018 , 85, 41-46	1	6
190	Effects of Sulfate on the Oxygen Reduction Reaction Activity on Stabilized Pt Skin/PtCo Alloy Catalysts from 30 to 80 °C. <i>Langmuir</i> , 2018 , 34, 13558-13564	4	9
189	Fuel Cells: An Overview with Emphasis on Polymer Electrolyte Fuel Cells 2017 , 51-94		
188	Highly Active, CO-Tolerant, and Robust Hydrogen Anode Catalysts: Pt _M (M = Fe, Co, Ni) Alloys with Stabilized Pt-Skin Layers. <i>ACS Catalysis</i> , 2017 , 7, 267-274	13.1	51

187	In Situ FTIR Analysis of CO-Tolerance of a Pt-Fe Alloy with Stabilized Pt Skin Layers as a Hydrogen Anode Catalyst for Polymer Electrolyte Fuel Cells. <i>Catalysts</i> , 2017 , 7, 8	4	8
186	Weakened CO adsorption and enhanced structural integrity of a stabilized Pt skin/PtCo hydrogen oxidation catalyst analysed by in situ X-ray absorption spectroscopy. <i>Catalysis Science and Technology</i> , 2017 , 7, 6124-6131	5.5	13
185	Highly Durable and Active PtCo Alloy/Graphitized Carbon Black Cathode Catalysts by Controlled Deposition of Stabilized Pt Skin Layers. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F455-F463	3.9	32
184	Influence of Pt Loading and Cell Potential on the HF Ohmic Resistance of an Nb-Doped SnO ₂ -Supported Pt Cathode for PEFCs. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F97-F105	3.9	14
183	The Influence of Fe Substitution in Lanthanum Calcium Cobalt Oxide on the Oxygen Evolution Reaction in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F1124-F1132	3.9	13
182	The Road Taken to Japan. <i>Hyomen Kagaku</i> , 2015 , 36, 592-593		
181	Investigation of the effect of a hydrophilic layer in the gas diffusion layer of a polymer electrolyte membrane fuel cell on the cell performance and cold start behaviour. <i>Electrochimica Acta</i> , 2014 , 120, 240-247	6.7	40
180	Electrochemical quartz crystal microbalance analysis of the oxygen reduction reaction on Pt-based electrodes. Part 2: adsorption of oxygen species and ClO ₄ (-) anions on Pt and Pt-Co alloy in HClO ₄ solutions. <i>Langmuir</i> , 2014 , 30, 432-9	4	33
179	Visible light-induced reduction of carbon dioxide sensitized by a porphyrin-rhenium dyad metal complex on p-type semiconducting NiO as the reduction terminal end of an artificial photosynthetic system. <i>Journal of Catalysis</i> , 2014 , 310, 57-66	7.3	99
178	Microstructure and the Mobility of Fluorinated Carbon Chain of Reversed Micelles Formed by Cationic Polyfluorinated Surfactant. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 1273-1277	5.1	3
177	Triplet ground state of the neutral oxygen-vacancy donor in rutile TiO ₂ . <i>Physical Review B</i> , 2014 , 89,	3.3	20
176	Effect of the state of distribution of supported Pt nanoparticles on effective Pt utilization in polymer electrolyte fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 11236-47	3.6	80
175	Ground state of the singly ionized oxygen vacancy in rutile TiO ₂ . <i>Journal of Applied Physics</i> , 2013 , 114, 113702	2.5	20
174	Hydrolyzed polyoxymethylenedimethylethers as liquid fuels for direct oxidation fuel cells. <i>Electrochimica Acta</i> , 2013 , 108, 350-355	6.7	20
173	Investigation of the corrosion of carbon supports in polymer electrolyte fuel cells using simulated start-up/shutdown cycling. <i>Electrochimica Acta</i> , 2013 , 91, 195-207	6.7	85
172	Direct STM elucidation of the effects of atomic-level structure on Pt(111) electrodes for dissolved CO oxidation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1476-90	16.4	60
171	Role of Hydrophobic Interaction in Controlling the Orientation of Dicationic Porphyrins on Solid Surfaces. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9245-9251	3.8	29
170	The Scientific Legacy of Su-Moon Park: a Personal View. <i>Journal of Electrochemical Science and Technology</i> , 2013 , 4, 119-124	3.2	

169	The Scientific Legacy of Su-Moon Park: a Personal View. <i>Journal of Electrochemical Science and Technology</i> , 2013 , 4, 119-124	3.2	
168	Overview of recent developments in oxygen reduction electrocatalysis. <i>Electrochimica Acta</i> , 2012 , 84, 187-201	6.7	105
167	Diamond nanoparticles as a support for Pt and PtRu catalysts for direct methanol fuel cells. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1134-47	9.5	61
166	How is the water molecule activated on metalloporphyrins? Oxygenation of substrates induced through one-photon/two-electron conversion in artificial photosynthesis by visible light. <i>Faraday Discussions</i> , 2012 , 155, 145-63; discussion 207-22	3.6	34
165	Efficient electrochemical decomposition of perfluorocarboxylic acids by the use of a boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2011 , 20, 64-67	3.5	82
164	Efficient Decomposition of Perfluorocarboxylic Acids in Aqueous Suspensions of a TiO ₂ Photocatalyst with Medium-Pressure Ultraviolet Lamp Irradiation under Atmospheric Pressure. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10943-10947	3.9	27
163	Diffusion structural diagnostics of polycrystalline boron-doped diamond films. <i>Thermochimica Acta</i> , 2011 , 524, 104-108	2.9	
162	Synthesis of platinum and platinum-ruthenium-modified diamond nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2997-3009	2.3	24
161	Tafel Slope Component Analysis of Polymer Electrolyte Fuel Cell Cathode Current-Potential Behavior. <i>ECS Transactions</i> , 2011 , 35, 13-23	1	2
160	Fabrication of vertically aligned diamond whiskers from highly boron-doped diamond by oxygen plasma etching. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 177-82	9.5	40
159	The effectiveness of platinum/carbon electrocatalysts: Dependence on catalyst layer thickness and Pt alloy catalytic effects. <i>Electrochimica Acta</i> , 2011 , 56, 4783-4790	6.7	43
158	Facile fabrication and photocatalytic application of Ag nanoparticles-TiO ₂ nanofiber composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3692-5	1.3	253
157	Nanofibrous TiO ₂ -core/conjugated polymer-sheath composites: synthesis, structural properties and photocatalytic activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 7951-7	1.3	113
156	Unique solvatochromism of a membrane composed of a cationic porphyrin-clay complex. <i>Langmuir</i> , 2010 , 26, 4639-41	4	45
155	Development of solar-driven electrochemical and photocatalytic water treatment system using a boron-doped diamond electrode and TiO ₂ photocatalyst. <i>Water Research</i> , 2010 , 44, 904-10	12.5	48
154	In situ ATR-FTIR study of oxygen reduction at the Pt/Nafion interface. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 621-9	3.6	84
153	Platinum Electrodeposition at High Surface Area Carbon Vulcan-XC-72R Material Using a Rotating Disk-Slurry Electrode Technique. <i>Journal of the Electrochemical Society</i> , 2010 , 157, F189	3.9	45
152	Surface residual stress dependence on photoinduced highly hydrophilic conversion and back-reaction in the dark of rutile single crystals. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7911-6	3.6	3

151	New evaluation method for the effectiveness of platinum/carbon electrocatalysts under operating conditions. <i>Electrochimica Acta</i> , 2010 , 55, 8504-8512	6.7	97
150	Photocatalytic inactivation and removal of algae with TiO ₂ -coated materials. <i>Journal of Applied Electrochemistry</i> , 2010 , 40, 1737-1742	2.6	25
149	Modulation of Electron Transfer Activity at Diamond Films by Dissolved Oxygen in Aqueous Solution. <i>Journal of the Electrochemical Society</i> , 2009 , 156, J152	3.9	
148	Fabrication of micro-patterned TiO ₂ thin films incorporating Ag nanoparticles. <i>Materials Letters</i> , 2009 , 63, 1628-1630	3.3	12
147	Enhanced electrochemical response in oxidative differential pulse voltammetry of dopamine in the presence of ascorbic acid at carboxyl-terminated boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2009 , 54, 2312-2319	6.7	43
146	Facet-selective platinum electrodeposition at free-standing polycrystalline boron-doped diamond films. <i>Langmuir</i> , 2009 , 25, 10329-36	4	16
145	Fabrication and application of TiO ₂ -based superhydrophilic-superhydrophobic patterns on titanium substrates for offset printing. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 984-8	4.5	46
144	Oxygen Reduction at the Pt/Carbon Black-Polyimide Ionomer Interface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7772-7778	3.8	26
143	Effect of Residual Stress on the Photochemical Properties of TiO ₂ Thin Films. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12811-12817	3.8	24
142	Electron Transfer from the Porphyrin S ₂ State in a Zinc Porphyrin-Rhenium Bipyridyl Dyad having Carbon Dioxide Reduction Activity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11667-11673	3.8	77
141	Visible Light-Sensitive Cu(II)-Grafted TiO ₂ Photocatalysts: Activities and X-ray Absorption Fine Structure Analyses. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10761-10766	3.8	356
140	Electrospun fibers composed of Al ₂ O ₃ -TiO ₂ nanocrystals. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 1203-1207	1	12
139	Highly Ordered TiO ₂ Nanotube Arrays with Controllable Length for Photoelectrocatalytic Degradation of Phenol. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 253-259	3.8	336
138	Preparation and photochemical behavior of polyfluorinated cationic azobenzene-titanoniobate intercalation compounds. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4641		18
137	Underpotential deposition of hydrogen on Pt(111): a combined direct molecular dynamics/density functional theory study. <i>Molecular Simulation</i> , 2008 , 34, 1065-1072	2	20
136	Anodic Deposition of RuO _x nH ₂ O at Conductive Diamond Films and Conductive Diamond Powder for Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D73	3.9	26
135	Platinum Electrodeposition on Conductive Diamond Powder and Its Application to Methanol Oxidation in Acidic Media. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B264	3.9	40
134	Sensitive Electrochemical Detection of Oxalate at a Positively Charged Boron-Doped Diamond Surface. <i>Electroanalysis</i> , 2008 , 20, 1556-1564	3	31

133	TiO ₂ photocatalysis and related surface phenomena. <i>Surface Science Reports</i> , 2008 , 63, 515-582	12.9	5084
132	A transparent and photo-patternable superhydrophobic film. <i>Chemical Communications</i> , 2007 , 4949-51	5.8	97
131	Anatase TiO ₂ nanoparticles on rutile TiO ₂ nanorods: a heterogeneous nanostructure via layer-by-layer assembly. <i>Langmuir</i> , 2007 , 23, 10916-9	4	155
130	Superhydrophobic TiO ₂ Surfaces: Preparation, Photocatalytic Wettability Conversion, and Superhydrophobic Superhydrophilic Patterning. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14521-14529	3.8	229
129	Heterogeneous photocatalysis: From water photolysis to applications in environmental cleanup. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2664-2672	6.7	426
128	Direct molecular dynamics and density-functional theoretical study of the electrochemical hydrogen oxidation reaction and underpotential deposition of H on Pt(111). <i>Journal of Electroanalytical Chemistry</i> , 2007 , 607, 37-46	4.1	67
127	Dichroic Measurements on Dicationic and Tetracationic Porphyrins on Clay Surfaces with Visible-Light-Attenuated Total Reflectance. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 1350-1356	5.1	40
126	Electrophoretic preparation and characterization of porous electrodes from diamond nanoparticles. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 1022-1026	0.3	3
125	Light-Stimulated Composition Conversion in TiO ₂ -Based Nanofibers. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 658-665	3.8	95
124	Boron-doped diamond electrodes: The role of surface termination in the oxidation of dopamine and ascorbic acid. <i>Diamond and Related Materials</i> , 2007 , 16, 881-887	3.5	45
123	Large-scale fabrication of Ag nanoparticles in PVP nanofibres and net-like silver nanofibre films by electrospinning. <i>Nanotechnology</i> , 2007 , 18, 075605	3.4	49
122	Pt/C Catalyst Preparation Using Rotating Disk-Slurry Electrode (RoDSE) Technique. <i>ECS Transactions</i> , 2006 , 3, 35-40	1	6
121	Fibrous TiO ₂ -SiO ₂ nanocomposite photocatalyst. <i>Chemical Communications</i> , 2006 , 4483-5	5.8	56
120	Light-harvesting energy transfer and subsequent electron transfer of cationic porphyrin complexes on clay surfaces. <i>Langmuir</i> , 2006 , 22, 1406-8	4	67
119	Oxygen effect on the electrochemical behavior of n-type sulfur-doped diamond. <i>Diamond and Related Materials</i> , 2006 , 15, 221-224	3.5	4
118	Polycrystalline boron-doped diamond films as supports for methanol oxidation electrocatalysts. <i>Diamond and Related Materials</i> , 2006 , 15, 275-278	3.5	30
117	Detection of trace levels of Pb ²⁺ in tap water at boron-doped diamond electrodes with anodic stripping voltammetry. <i>Electrochimica Acta</i> , 2006 , 51, 2437-2441	6.7	76
116	Porphyrin photochemistry in inorganic/organic hybrid materials: Clays, layered semiconductors, nanotubes, and mesoporous materials. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2006 , 7, 104-126	16.4	214

115	Boron-Doped Diamond-Based Sensors: A Review. <i>Sensor Letters</i> , 2006 , 4, 99-119	0.9	60
114	Covalent Modification of Single-Crystal Diamond Electrode Surfaces. <i>Journal of the Electrochemical Society</i> , 2005 , 152, E18	3.9	51
113	Mercury detection at boron doped diamond electrodes using a rotating disk technique. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 577, 287-293	4.1	32
112	Resistance to Surfactant and Protein Fouling Effects at Conducting Diamond Electrodes. <i>Electroanalysis</i> , 2005 , 17, 305-311	3	47
111	Microchip capillary electrophoresis with a boron-doped diamond electrochemical detector for analysis of aromatic amines. <i>Electrophoresis</i> , 2004 , 25, 3017-23	3.6	44
110	Interaction of Pb and Cd during anodic stripping voltammetric analysis at boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2004 , 49, 3313-3318	6.7	69
109	Response of Conductive Diamond Electrode to Pb ²⁺ /PbO ₂ Redox Process in HNO ₃ Aqueous Solution.. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2003 , 54, 64-68	0.1	2
108	AC impedance studies of anodically treated polycrystalline and homoepitaxial boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2003 , 48, 2739-2748	6.7	52
107	Gradient liquid chromatography of leucine-enkephalin peptide and its metabolites with electrochemical detection using highly boron-doped diamond electrode. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003 , 791, 63-72	3.2	21
106	Application of diamond microelectrodes for end-column electrochemical detection in capillary electrophoresis. <i>Analytical Chemistry</i> , 2003 , 75, 530-4	7.8	71
105	Lutetium Monophthalocyanine and Diphtalocyanine Complexes and Lithium Naphthalocyanine as Catalysts for Electrochemical CO ₂ Reduction. <i>Journal of the Electrochemical Society</i> , 2003 , 150, E608	3.9	12
104	Microchip capillary electrophoresis coupled with a boron-doped diamond electrode-based electrochemical detector. <i>Analytical Chemistry</i> , 2003 , 75, 935-9	7.8	96
103	Highly efficient and selective epoxidation of alkenes by photochemical oxygenation sensitized by a ruthenium(II) porphyrin with water as both electron and oxygen donor. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5734-40	16.4	99
102	Electrochemical Behavior of Cobalt Oxide Films Deposited at Conductive Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2003 , 150, E337	3.9	64
101	Anodic Voltammetry of Xanthine, Theophylline, Theobromine and Caffeine at Conductive Diamond Electrodes and Its Analytical Application. <i>Electroanalysis</i> , 2002 , 14, 721	3	142
100	Decomposition of endocrine-disrupting chemicals in water by use of TiO ₂ photocatalysts immobilized on polytetrafluoroethylene mesh sheets. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 151, 207-212	4.7	56
99	Production of syngas plus oxygen from CO ₂ in a gas-diffusion electrode-based electrolytic cell. <i>Electrochimica Acta</i> , 2002 , 47, 3327-3334	6.7	62
98	Electrochemical characteristics for redox systems at nano-honeycomb diamond. <i>Electrochimica Acta</i> , 2002 , 47, 4373-4385	6.7	19

97	Electrochemical examination of the ascorbic acid radical anion in non-aqueous electrolytes. <i>Electrochimica Acta</i> , 2002 , 47, 4387-4392	6.7	10
96	Electrochemical detection of tricyclic antidepressant drugs by HPLC using highly boron-doped diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 521, 117-126	4.1	102
95	Homoepitaxial Single-Crystal Boron-Doped Diamond Electrodes for Electroanalysis. <i>Journal of the Electrochemical Society</i> , 2002 , 149, E179	3.9	34
94	ELECTROCHEMICAL DETECTION OF IONIC MERCURY AT BORON-DOPED DIAMOND ELECTRODES. <i>Analytical Letters</i> , 2002 , 35, 355-368	2.2	41
93	Radiationless Deactivation Process of 1-Dimethylamino-9-fluorenone Induced by Conformational Relaxation in the Excited State: A New Model Molecule for the TICT Process. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10089-10095	2.8	36
92	High-Density Adsorption of Cationic Porphyrins on Clay Layer Surfaces without Aggregation: The Size-Matching Effect. <i>Langmuir</i> , 2002 , 18, 2265-2272	4	164
91	Microscopic Structure and Microscopic Environment of a Polyfluorinated Surfactant/Clay Hybrid Compound: Photochemical Studies of Rose Bengal. <i>Langmuir</i> , 2002 , 18, 4232-4239	4	31
90	Intercalation of Polyfluorinated Surfactants into Clay Minerals and the Characterization of the Hybrid Compounds. <i>Langmuir</i> , 2002 , 18, 891-896	4	86
89	Photochemical Energy Transfer of Cationic Porphyrin Complexes on Clay Surface. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 5455-5460	3.4	111
88	Electrochemical generation of ferrate in acidic media at boron-doped diamond electrodes. <i>Chemical Communications</i> , 2002 , 486-7	5.8	39
87	Metal-Coated Colloidal Crystal Film as Surface-Enhanced Raman Scattering Substrate. <i>Langmuir</i> , 2002 , 18, 5043-5046	4	54
86	Electrochemical oxidation of chlorophenols at a boron-doped diamond electrode and their determination by high-performance liquid chromatography with amperometric detection. <i>Analytical Chemistry</i> , 2002 , 74, 895-902	7.8	136
85	The electrochemical oxidation of homocysteine at boron-doped diamond electrodes with application to HPLC amperometric detection. <i>Analyst</i> , 2002 , 127, 1164-8	5	19
84	Electrochemical Reduction of CO ₂ with Transition Metal Phthalocyanine and Porphyrin Complexes Supported on Activated Carbon Fibers. <i>Journal of the Electrochemical Society</i> , 2002 , 149, D893-9	3.9	67
83	Factors controlling the electrochemical potential window for diamond electrodes in non-aqueous electrolytes. <i>Diamond and Related Materials</i> , 2002 , 11, 67-74	3.5	32
82	Nanolithographic modification of diamond. <i>Diamond and Related Materials</i> , 2002 , 11, 1788-1796	3.5	8
81	Metal-Modified Diamond Electrode as an Electrochemical Detector for Glucose. <i>Chemistry Letters</i> , 2001 , 30, 144-145	1.7	32
80	Characterization of the Chromophore Orientation of Rhodamine B Amphiphiles in Langmuir-Blodgett Monolayers. <i>Journal of Colloid and Interface Science</i> , 2001 , 233, 361-363	9.3	16

79	Recent developments in electrochemical and photoelectrochemical CO ₂ reduction: involvement of the (CO ₂) ₂ dimer radical anion. <i>Applied Organometallic Chemistry</i> , 2001 , 15, 113-120	3.1	26
78	Electrochemical properties of Pt-modified nano-honeycomb diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 514, 35-50	4.1	108
77	Electrochemical approaches to alleviation of the problem of carbon dioxide accumulation. <i>Pure and Applied Chemistry</i> , 2001 , 73, 1917-1927	2.1	105
76	Hydroxyl Groups on Boron-Doped Diamond Electrodes and Their Modification with a Silane Coupling Agent. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, H1		79
75	Determination of Nitrite and Nitrogen Oxides by Anodic Voltammetry at Conductive Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2001 , 148, E112	3.9	72
74	Voltammetric determination of L-cysteine at conductive diamond electrodes. <i>Analytical Chemistry</i> , 2001 , 73, 514-9	7.8	230
73	Fabrication of structured porous film by electrophoresis. <i>Journal of the American Chemical Society</i> , 2001 , 123, 175-6	16.4	39
72	Electrochemical characterization of nanoporous honeycomb diamond electrodes in non-aqueous electrolytes. <i>Diamond and Related Materials</i> , 2001 , 10, 620-626	3.5	36
71	Relationships between surface character and electrochemical processes on diamond electrodes: dual roles of surface termination and near-surface hydrogen. <i>Diamond and Related Materials</i> , 2001 , 10, 1804-1809	3.5	74
70	Impedance Characteristics of the Nanoporous Honeycomb Diamond Electrodes for Electrical Double-Layer Capacitor Applications. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A668	3.9	77
69	Radiationless Deactivation of an Intramolecular Charge Transfer Excited State through Hydrogen Bonding: Effect of Molecular Structure and Hard/Soft Anionic Character in the Excited State. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 10488-10496	2.8	78
68	Varying the Optical Stop Band of a Three-Dimensional Photonic Crystal by Refractive Index Control. <i>Langmuir</i> , 2001 , 17, 6751-6753	4	85
67	TiO ₂ photocatalysts and diamond electrodes. <i>Electrochimica Acta</i> , 2000 , 45, 4683-4690	6.7	190
66	Electroanalytical study of sulfa drugs at diamond electrodes and their determination by HPLC with amperometric detection. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 491, 175-181	4.1	92
65	Surface carbonyl groups on oxidized diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 492, 31-37	4.1	96
64	The electrooxidation of organic acids at boron-doped diamond electrodes. <i>Electrochemistry Communications</i> , 2000 , 2, 422-426	5.1	52
63	Titanium dioxide photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2000 , 1, 1-21	16.4	6242
62	TiO ₂ -mediated photodegradation of liquid and solid organic compounds. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000 , 137, 53-62	4.7	135

61	Recent topics in photoelectrochemistry: achievements and future prospects. <i>Electrochimica Acta</i> , 2000 , 45, 2363-2376	6.7	540
60	Nature of the photographic diamond surface phenomenon on boron-doped diamond. <i>Electrochimica Acta</i> , 2000 , 45, 3375-3378	6.7	5
59	Light Propagation in Composite Two-Dimensional Arrays of Polystyrene Spherical Particles. <i>Langmuir</i> , 2000 , 16, 636-642	4	33
58	Electrochemical Reduction of CO ₂ in the Micropores of Activated Carbon Fibers. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 3393	3.9	46
57	Binary cooperative complementary nanoscale interfacial materials. <i>Pure and Applied Chemistry</i> , 2000 , 72, 73-81	2.1	148
56	Electrochemical oxidation of histamine and serotonin at highly boron-doped diamond electrodes. <i>Analytical Chemistry</i> , 2000 , 72, 1632-8	7.8	205
55	Selective voltammetric and amperometric detection of uric acid with oxidized diamond film electrodes. <i>Analytical Chemistry</i> , 2000 , 72, 1724-7	7.8	175
54	Electrochemical Characterization of the Nanoporous Honeycomb Diamond Electrode as an Electrical Double-Layer Capacitor. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 659	3.9	96
53	Observation of Light Propagation in Single Layers of Composite Two-Dimensional Arrays. <i>Langmuir</i> , 2000 , 16, 1180-1184	4	10
52	Detection of Trace Lead at Boron-Doped Diamond Electrodes by Anodic Stripping Analysis. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 455		37
51	Electrochemical Characterization of Highly Boron-Doped Diamond Microelectrodes in Aqueous Electrolyte. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 1469-1471	3.9	50
50	Band-Edge Movements of Semiconducting Diamond in Aqueous Electrolyte Induced by Anodic Surface Treatment. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 680-684	3.9	73
49	Kinetic Investigations of Oxygen Reduction and Evolution Reactions on Lead Ruthenate Catalysts. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 4145-4151	3.9	68
48	Introduction of Oxygen-Containing Functional Groups onto Diamond Electrode Surfaces by Oxygen Plasma and Anodic Polarization. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 522		119
47	Control of the Dynamics of Photogenerated Carriers at the Boron-Doped Diamond/Electrolyte Interface by Variation of the Surface Termination. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 457		12
46	Electrochemical selectivity for redox systems at oxygen-terminated diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 473, 173-178	4.1	216
45	Electroanalysis of dopamine and NADH at conductive diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 473, 179-185	4.1	116
44	The electrochemical response of highly boron-doped conductive diamond electrodes to Ce ³⁺ ions in aqueous solution. <i>Electrochimica Acta</i> , 1999 , 44, 3441-3449	6.7	52

43	Electrochemical reduction of Cu ²⁺ without surface trapping on synthetic conductive diamond electrodes. <i>Chemical Physics Letters</i> , 1999 , 300, 409-413	2.5	17
42	Investigations of ruthenium pyrochlores as bifunctional oxygen electrodes. <i>Journal of Applied Electrochemistry</i> , 1999 , 29, 1463-1469	2.6	46
41	Remote Bleaching of Methylene Blue by UV-Irradiated TiO ₂ in the Gas Phase. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8033-8035	3.4	146
40	Electrochemical Oxidation of NADH at Highly Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 1999 , 71, 2506-11	7.8	216
39	Adhesion of Electroless Deposited Cu on ZnO-Coated Glass Substrates: The Effect of the ZnO Surface Morphology. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2117-2122	3.9	17
38	Electrochemical Behavior of Highly Conductive Boron-Doped Diamond Electrodes for Oxygen Reduction in Acid Solution. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 1081-1087	3.9	115
37	Electrochemical Detection of Serotonin Using Conductive Diamond Electrodes. <i>Chemistry Letters</i> , 1999 , 28, 1213-1214	1.7	12
36	Effect of ZnO Film Thicknesses on the Adhesive Strength of Electroless Cu Deposits. <i>Chemistry Letters</i> , 1999 , 28, 11-12	1.7	1
35	ZnO Thin Film-Based New Electroless Metal Deposition. <i>Electrochemistry</i> , 1999 , 67, 11-17	1.2	
34	Methanol-tolerant electrocatalysts for oxygen reduction in a polymer electrolyte membrane fuel cell. <i>Journal of Applied Electrochemistry</i> , 1998 , 28, 673-682	2.6	75
33	New Mesostructured Porous TiO ₂ Surface Prepared Using a Two-Dimensional Array-Based Template of Silica Particles. <i>Langmuir</i> , 1998 , 14, 6441-6447	4	119
32	Effect of Heat Treatment on the Redox Properties of Iron Porphyrins Adsorbed on High Area Carbon in Acid Electrolytes: An in Situ Fe K-Edge X-ray Absorption Near-Edge Structure Study. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 4114-4117	3.4	80
31	Electrochemical Behavior of Highly Conductive Boron-Doped Diamond Electrodes for Oxygen Reduction in Alkaline Solution. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 1870-1876	3.9	275
30	Autoxidation of Acetaldehyde Initiated by TiO ₂ Photocatalysis under Weak UV Illumination. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2699-2704	3.4	189
29	Photoelectrochemical Reduction of CO ₂ in a High-Pressure CO ₂ + Methanol Medium at p-Type Semiconductor Electrodes. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9834-9843	3.4	57
28	Photoelectrochemical Reduction of CO ₂ at High Current Densities at p-InP Electrodes. <i>Journal of the Electrochemical Society</i> , 1998 , 145, L82-L84	3.9	20
27	Surface-Enhanced Raman Imaging (SERI) of Patterned Self-Assembled Monolayers of Various Derivatized Thiophenols on Silver. <i>Bulletin of the Chemical Society of Japan</i> , 1998 , 71, 31-39	5.1	8
26	Electrochemical Reduction of CO ₂ in Micropores. <i>Chemistry Letters</i> , 1998 , 27, 825-826	1.7	11

25	Observation of Electrochemical C ₆₀ Reduction of a Diamond Thin Film Electrode at Room Temperature. <i>Chemistry Letters</i> , 1998 , 27, 503-504	1.7	20
24	Surface Molecular Rearrangements on the (0001) Face of C ₇₀ Single Crystals. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 3903-3908	1.4	3
23	Observation of Photocurrent from Band-to-Band Excitation of Semiconducting p-Type Diamond Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, L142-L145	3.9	47
22	Electrochemical Modulation of Molecular Conversion in an Azobenzene-Terminated Self-Assembled Monolayer Film: An in Situ UV-Visible and Infrared Study. <i>Langmuir</i> , 1997 , 13, 4644-4651	4	35
21	Electrostatically Induced Isomerization of Azobenzene Derivatives in Langmuir-Blodgett Films. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7422-7427	3.4	30
20	Structural investigation of azobenzene-containing self-assembled monolayer films. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 438, 213-219	4.1	65
19	Investigation of the Surface Morphology and Photoisomerization of an Azobenzene-Containing Ultrathin Film. <i>Langmuir</i> , 1996 , 12, 2052-2057	4	51
18	Novel in situ and ex situ techniques for the study of lithium/electrolyte interfaces. <i>Journal of Power Sources</i> , 1995 , 54, 20-27	8.9	10
17	In Situ X-Ray Absorption Fine Structure Measurements of LaNi ₅ Electrodes in Alkaline Electrolytes. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 824-828	3.9	16
16	In Situ La, Ce, and Nd L-Edge X-Ray Absorption Fine Structure Study of an Intermetallic Metal Hydride Electrode in an Operating Alkaline Battery. <i>Journal of the Electrochemical Society</i> , 1995 , 142, L76-L78	3.9	4
15	In Situ Extended X-ray Absorption Fine Structure of an Iron Porphyrin Irreversibly Adsorbed on an Electrode Surface. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 10359-10364		15
14	Underpotential Deposition of Lithium on Polycrystalline Gold from a LiClO ₄ /Poly(ethylene oxide) Solid Polymer Electrolyte in Ultrahigh Vacuum. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11739-11741		16
13	Electrochemistry in Ultrahigh Vacuum: Intercalation of Lithium into the Basal Plane of Highly Oriented Pyrolytic Graphite from a Poly(ethylene oxide)/LiClO ₄ Solid Polymer Electrolyte. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11797-11800		3
12	Electrochemical Insertion of Lithium into Pyrite from Nonaqueous Electrolytes at Room Temperature: An in Situ Fe K-Edge X-ray Absorption Fine Structure Study. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 3732-3735		18
11	Imaging of One-Dimensional Conducting Pt Complexes Using Atomic Force Microscopy. <i>Chemistry Letters</i> , 1995 , 24, 879-880	1.7	3
10	A Polymer Electrolyte for Operation at Temperatures up to 200°C. <i>Journal of the Electrochemical Society</i> , 1994 , 141, L46-L48	3.9	256
9	In situ x-ray absorption fine structure studies of foreign metal ions in nickel hydroxide electrodes in alkaline electrolytes. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 10269-10276		47
8	Transition-Metal Oxide Electrocatalysts for O ₂ Electrodes: The Pyrochlores 1992 , 93-106		7

7	Electrocatalysis for oxygen electrodes in fuel cells and water electrolyzers for space applications. <i>Journal of Power Sources</i> , 1990 , 29, 413-422	8.9	29
6	The electrochemistry of graphite and modified graphite surfaces: the reduction of O ₂ . <i>Electrochimica Acta</i> , 1989 , 34, 1733-1737	6.7	124
5	Heat-treated polyacrylonitrile-based catalysts for oxygen electroreduction. <i>Journal of Applied Electrochemistry</i> , 1989 , 19, 19-27	2.6	534
4	Transition metal macrocycles supported on high area carbon: Pyrolysis mass spectrometry studies. <i>Electrochimica Acta</i> , 1986 , 31, 1247-1258	6.7	119
3	Electrochemical Determination of Cation Radical Stabilities of Monomethylbenzo[a]pyrenes. <i>Journal of the Electrochemical Society</i> , 1983 , 130, 597-603	3.9	6
2	Electrochemically activated binding of benzo[a]pyrene and 6-methylbenzo[a]pyrene to DNA. <i>Journal of the American Chemical Society</i> , 1981 , 103, 2123-2124	16.4	4
1	Excited state intermediates probed by electrogenerated chemiluminescence. <i>Reviews of Chemical Intermediates</i> , 1981 , 4, 43-79		38