Donald Tryk

List of Publications by Citations

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	Titanium dioxide photocatalysis. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2000**, 1, 1-21	16.4	6242
203	TiO2 photocatalysis and related surface phenomena. *Surface Science Reports*, **2008**, 63, 515-582	12.9	5084
202	Recent topics in photoelectrochemistry: achievements and future prospects. *Electrochimica Acta*, **2000**, 45, 2363-2376	6.7	540
201	Heat-treated polyacrylonitrile-based catalysts for oxygen electroreduction. *Journal of Applied Electrochemistry*, **1989**, 19, 19-27	2.6	534
200	Heterogeneous photocatalysis: From water photolysis to applications in environmental cleanup. *International Journal of Hydrogen Energy*, **2007**, 32, 2664-2672	6.7	426
199	Visible Light-Sensitive Cu(II)-Grafted TiO2 Photocatalysts: Activities and X-ray Absorption Fine Structure Analyses. *Journal of Physical Chemistry C*, **2009**, 113, 10761-10766	3.8	356
198	Highly Ordered TiO2 Nanotube Arrays with Controllable Length for Photoelectrocatalytic Degradation of Phenol. *Journal of Physical Chemistry C*, **2008**, 112, 253-259	3.8	336
197	Electrochemical Behavior of Highly Conductive Boron-Doped Diamond Electrodes for Oxygen Reduction in Alkaline Solution. *Journal of the Electrochemical Society*, **1998**, 145, 1870-1876	3.9	275
196	A Polymer Electrolyte for Operation at Temperatures up to 200°C. *Journal of the Electrochemical Society*, **1994**, 141, L46-L48	3.9	256
195	Facile fabrication and photocatalytic application of Ag nanoparticles-TiO2 nanofiber composites. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 3692-5	1.3	253
194	Voltammetric determination of L-cysteine at conductive diamond electrodes. *Analytical Chemistry*, **2001**, 73, 514-9	7.8	230
193	Superhydrophobic TiO2Surfaces: Preparation, Photocatalytic Wettability Conversion, and Superhydrophobic−Superhydrophilic Patterning. *Journal of Physical Chemistry C*, **2007**, 111, 14521-14529	3.8	229
192	Electrochemical selectivity for redox systems at oxygen-terminated diamond electrodes. *Journal of Electroanalytical Chemistry*, **1999**, 473, 173-178	4.1	216
191	Electrochemical Oxidation of NADH at Highly Boron-Doped Diamond Electrodes. *Analytical Chemistry*, **1999**, 71, 2506-11	7.8	216
190	Porphyrin photochemistry in inorganic/organic hybrid materials: Clays, layered semiconductors, nanotubes, and mesoporous materials. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2006**, 7, 104-126	16.4	214
189	Electrochemical oxidation of histamine and serotonin at highly boron-doped diamond electrodes. *Analytical Chemistry*, **2000**, 72, 1632-8	7.8	205
188	TiO2 photocatalysts and diamond electrodes. *Electrochimica Acta*, **2000**, 45, 4683-4690	6.7	190

187	Autoxidation of Acetaldehyde Initiated by TiO2 Photocatalysis under Weak UV Illumination. *Journal of Physical Chemistry B*, **1998**, 102, 2699-2704	3.4	189
186	Selective voltammetric and amperometric detection of uric acid with oxidized diamond film electrodes. *Analytical Chemistry*, **2000**, 72, 1724-7	7.8	175
185	High-Density Adsorption of Cationic Porphyrins on Clay Layer Surfaces without Aggregation: The Size-Matching Effect. *Langmuir*, **2002**, 18, 2265-2272	4	164
184	Anatase TiO2 nanoparticles on rutile TiO2 nanorods: a heterogeneous nanostructure via layer-by-layer assembly. *Langmuir*, **2007**, 23, 10916-9	4	155
183	Binary cooperative complementary nanoscale interfacial materials. *Pure and Applied Chemistry*, **2000**, 72, 73-81	2.1	148
182	Remote Bleaching of Methylene Blue by UV-Irradiated TiO2 in the Gas Phase. *Journal of Physical Chemistry B*, **1999**, 103, 8033-8035	3.4	146
181	Anodic Voltammetry of Xanthine, Theophylline, Theobromine and Caffeine at Conductive Diamond Electrodes and Its Analytical Application. *Electroanalysis*, **2002**, 14, 721	3	142
180	Electrochemical oxidation of chlorophenols at a boron-doped diamond electrode and their determination by high-performance liquid chromatography with amperometric detection. *Analytical Chemistry*, **2002**, 74, 895-902	7.8	136
179	TiO2-mediated photodegradation of liquid and solid organic compounds. *Journal of Photochemistry and Photobiology A: Chemistry*, **2000**, 137, 53-62	4.7	135
178	The electrochemistry of graphite and modified graphite surfaces: the reduction of O2. *Electrochimica Acta*, **1989**, 34, 1733-1737	6.7	124
177	New Mesostructured Porous TiO2Surface Prepared Using a Two-Dimensional Array-Based Template of Silica Particles. *Langmuir*, **1998**, 14, 6441-6447	4	119
176	Introduction of Oxygen-Containing Functional Groups onto Diamond Electrode Surfaces by Oxygen Plasma and Anodic Polarization. *Electrochemical and Solid-State Letters*, **1999**, 2, 522		119
175	Transition metal macrocycles supported on high area carbon: Pyrolysis mass spectrometry studies. *Electrochimica Acta*, **1986**, 31, 1247-1258	6.7	119
174	Electroanalysis of dopamine and NADH at conductive diamond electrodes. *Journal of Electroanalytical Chemistry*, **1999**, 473, 179-185	4.1	116
173	Electrochemical Behavior of Highly Conductive Boron-Doped Diamond Electrodes for Oxygen Reduction in Acid Solution. *Journal of the Electrochemical Society*, **1999**, 146, 1081-1087	3.9	115
172	Nanofibrous TiO2-core/conjugated polymer-sheath composites: synthesis, structural properties and photocatalytic activity. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 7951-7	1.3	113
171	Photochemical Energy Transfer of Cationic Porphyrin Complexes on Clay Surface. *Journal of Physical Chemistry B*, **2002**, 106, 5455-5460	3.4	111
170	Electrochemical properties of Pt-modified nano-honeycomb diamond electrodes. *Journal of Electroanalytical Chemistry*, **2001**, 514, 35-50	4.1	108

169	Overview of recent developments in oxygen reduction electrocatalysis. *Electrochimica Acta*, **2012**, 84, 187-201	6.7	105
168	Electrochemical approaches to alleviation of the problem of carbon dioxide accumulation. *Pure and Applied Chemistry*, **2001**, 73, 1917-1927	2.1	105
167	Electrochemical detection of tricyclic antidepressant drugs by HPLC using highly boron-doped diamond electrodes. *Journal of Electroanalytical Chemistry*, **2002**, 521, 117-126	4.1	102
166	Visible light-induced reduction of carbon dioxide sensitized by a porphyrin□henium dyad metal complex on p-type semiconducting NiO as the reduction terminal end of an artificial photosynthetic system. *Journal of Catalysis*, **2014**, 310, 57-66	7.3	99
165	Highly efficient and selective epoxidation of alkenes by photochemical oxygenation sensitized by a ruthenium(II) porphyrin with water as both electron and oxygen donor. *Journal of the American Chemical Society*, **2003**, 125, 5734-40	16.4	99
164	New evaluation method for the effectiveness of platinum/carbon electrocatalysts under operating conditions. *Electrochimica Acta*, **2010**, 55, 8504-8512	6.7	97
163	A transparent and photo-patternable superhydrophobic film. *Chemical Communications*, **2007**, 4949-51	5.8	97
162	Microchip capillary electrophoresis coupled with a boron-doped diamond electrode-based electrochemical detector. *Analytical Chemistry*, **2003**, 75, 935-9	7.8	96
161	Surface carbonyl groups on oxidized diamond electrodes. *Journal of Electroanalytical Chemistry*, **2000**, 492, 31-37	4.1	96
160	Electrochemical Characterization of the Nanoporous Honeycomb Diamond Electrode as an Electrical Double-Layer Capacitor. *Journal of the Electrochemical Society*, **2000**, 147, 659	3.9	96
159	Light-Stimulated Composition Conversion in TiO2-Based Nanofibers. *Journal of Physical Chemistry C* , **2007**, 111, 658-665	3.8	95
158	Electroanalytical study of sulfa drugs at diamond electrodes and their determination by HPLC with amperometric detection. *Journal of Electroanalytical Chemistry*, **2000**, 491, 175-181	4.1	92
157	Intercalation of Polyfluorinated Surfactants into Clay Minerals and the Characterization of the Hybrid Compounds. *Langmuir*, **2002**, 18, 891-896	4	86
156	Investigation of the corrosion of carbon supports in polymer electrolyte fuel cells using simulated start-up/shutdown cycling. *Electrochimica Acta*, **2013**, 91, 195-207	6.7	85
155	Varying the Optical Stop Band of a Three-Dimensional Photonic Crystal by Refractive Index Control. *Langmuir*, **2001**, 17, 6751-6753	4	85
154	In situ ATR-FTIR study of oxygen reduction at the Pt/Nafion interface. *Physical Chemistry Chemical Physics*, **2010**, 12, 621-9	3.6	84
153	Efficient electrochemical decomposition of perfluorocarboxylic acids by the use of a boron-doped diamond electrode. *Diamond and Related Materials*, **2011**, 20, 64-67	3.5	82
152	Effect of the state of distribution of supported Pt nanoparticles on effective Pt utilization in polymer electrolyte fuel cells. *Physical Chemistry Chemical Physics*, **2013**, 15, 11236-47	3.6	80

151	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. *Journal of Physical Chemistry B*, **1998**, 102, 4114-4117	3.4	80
150	Hydroxyl Groups on Boron-Doped Diamond Electrodes and Their Modification with a Silane Coupling Agent. *Electrochemical and Solid-State Letters*, **2001**, 4, H1		79
149	Radiationless Deactivation of an Intramolecular Charge Transfer Excited State through Hydrogen Bonding: Effect of Molecular Structure and HardSoft Anionic Character in the Excited State. *Journal of Physical Chemistry A*, **2001**, 105, 10488-10496	2.8	78
148	Electron Transfer from the Porphyrin S2 State in a Zinc Porphyrin-Rhenium Bipyridyl Dyad having Carbon Dioxide Reduction Activity *Journal of Physical Chemistry C*, **2009**, 113, 11667-11673	3.8	77
147	Impedance Characteristics of the Nanoporous Honeycomb Diamond Electrodes for Electrical Double-Layer Capacitor Applications. *Journal of the Electrochemical Society*, **2001**, 148, A668	3.9	77
146	Detection of trace levels of Pb2+ in tap water at boron-doped diamond electrodes with anodic stripping voltammetry. *Electrochimica Acta*, **2006**, 51, 2437-2441	6.7	76
145	Methanol-tolerant electrocatalysts for oxygen reduction in a polymer electrolyte membrane fuel cell. *Journal of Applied Electrochemistry*, **1998**, 28, 673-682	2.6	75
144	Relationships between surface character and electrochemical processes on diamond electrodes: dual roles of surface termination and near-surface hydrogen. *Diamond and Related Materials*, **2001**, 10, 1804-1809	3.5	74
143	Band-Edge Movements of Semiconducting Diamond in Aqueous Electrolyte Induced by Anodic Surface Treatment. *Journal of the Electrochemical Society*, **1999**, 146, 680-684	3.9	73
142	Determination of Nitrite and Nitrogen Oxides by Anodic Voltammetry at Conductive Diamond Electrodes. *Journal of the Electrochemical Society*, **2001**, 148, E112	3.9	72
141	Application of diamond microelectrodes for end-column electrochemical detection in capillary electrophoresis. *Analytical Chemistry*, **2003**, 75, 530-4	7.8	71
140	Interaction of Pb and Cd during anodic stripping voltammetric analysis at boron-doped diamond electrodes. *Electrochimica Acta*, **2004**, 49, 3313-3318	6.7	69
139	Kinetic Investigations of Oxygen Reduction and Evolution Reactions on Lead Ruthenate Catalysts. *Journal of the Electrochemical Society*, **1999**, 146, 4145-4151	3.9	68
138	Direct molecular dynamics and density-functional theoretical study of the electrochemical hydrogen oxidation reaction and underpotential deposition of H on Pt(111). *Journal of Electroanalytical Chemistry*, **2007**, 607, 37-46	4.1	67
137	Light-harvesting energy transfer and subsequent electron transfer of cationic porphyrin complexes on clay surfaces. *Langmuir*, **2006**, 22, 1406-8	4	67
136	Electrochemical Reduction of CO[sub 2] with Transition Metal Phthalocyanine and Porphyrin Complexes Supported on Activated Carbon Fibers. *Journal of the Electrochemical Society*, **2002**, 149, D89	3.9	67
135	Structural investigation of azobenzene-containing self-assembled monolayer films. *Journal of Electroanalytical Chemistry*, **1997**, 438, 213-219	4.1	65
134	Electrochemical Behavior of Cobalt Oxide Films Deposited at Conductive Diamond Electrodes. *Journal of the Electrochemical Society*, **2003**, 150, E337	3.9	64

133	Production of syngas plus oxygen from CO2 in a gas-diffusion electrode-based electrolytic cell. *Electrochimica Acta*, **2002**, 47, 3327-3334	6.7	62
132	Diamond nanoparticles as a support for Pt and PtRu catalysts for direct methanol fuel cells. *ACS Applied Materials & Interfaces*, **2012**, 4, 1134-47	9.5	61
131	Direct STM elucidation of the effects of atomic-level structure on Pt(111) electrodes for dissolved CO oxidation. *Journal of the American Chemical Society*, **2013**, 135, 1476-90	16.4	60
130	Boron-Doped Diamond-Based Sensors: A Review. *Sensor Letters*, **2006**, 4, 99-119	0.9	60
129	Photoelectrochemical Reduction of CO2 in a High-Pressure CO2 + Methanol Medium at p-Type Semiconductor Electrodes. *Journal of Physical Chemistry B*, **1998**, 102, 9834-9843	3.4	57
128	Fibrous TiO2-SiO2 nanocomposite photocatalyst. *Chemical Communications*, **2006**, 4483-5	5.8	56
127	Decomposition of endocrine-disrupting chemicals in water by use of TiO2 photocatalysts immobilized on polytetrafluoroethylene mesh sheets. *Journal of Photochemistry and Photobiology A: Chemistry*, **2002**, 151, 207-212	4.7	56
126	Metal-Coated Colloidal Crystal Film as Surface-Enhanced Raman Scattering Substrate *Langmuir*, **2002**, 18, 5043-5046	4	54
125	AC impedance studies of anodically treated polycrystalline and homoepitaxial boron-doped diamond electrodes. *Electrochimica Acta*, **2003**, 48, 2739-2748	6.7	52
124	The electrooxidation of organic acids at boron-doped diamond electrodes. *Electrochemistry Communications*, **2000**, 2, 422-426	5.1	52
123	The electrochemical response of highly boron-doped conductive diamond electrodes to Ce3+ ions in aqueous solution. *Electrochimica Acta*, **1999**, 44, 3441-3449	6.7	52
122	Highly Active, CO-Tolerant, and Robust Hydrogen Anode Catalysts: PtM (M = Fe, Co, Ni) Alloys with Stabilized Pt-Skin Layers. *ACS Catalysis*, **2017**, 7, 267-274	13.1	51
121	Covalent Modification of Single-Crystal Diamond Electrode Surfaces. *Journal of the Electrochemical Society*, **2005**, 152, E18	3.9	51
120	Investigation of the Surface Morphology and Photoisomerization of an Azobenzene-Containing Ultrathin Film. *Langmuir*, **1996**, 12, 2052-2057	4	51
119	Electrochemical Characterization of Highly Boron-Doped Diamond Microelectrodes in Aqueous Electrolyte. *Journal of the Electrochemical Society*, **1999**, 146, 1469-1471	3.9	50
118	Large-scale fabrication of Ag nanoparticles in PVP nanofibres and net-like silver nanofibre films by electrospinning. *Nanotechnology*, **2007**, 18, 075605	3.4	49
117	Development of solar-driven electrochemical and photocatalytic water treatment system using a boron-doped diamond electrode and TiO2 photocatalyst. *Water Research*, **2010**, 44, 904-10	12.5	48
116	Observation of Photocurrent from Band-to-Band Excitation of Semiconducting p-Type Diamond Thin Film Electrodes. *Journal of the Electrochemical Society*, **1997**, 144, L142-L145	3.9	47

115	Resistance to Surfactant and Protein Fouling Effects at Conducting Diamond Electrodes. *Electroanalysis*, **2005**, 17, 305-311	3	47
114	In situ x-ray absorption fine structure studies of foreign metal ions in nickel hydrous oxide electrodes in alkaline electrolytes. *The Journal of Physical Chemistry*, **1994**, 98, 10269-10276		47
113	Fabrication and application of TiO2-based superhydrophilic-superhydrophobic patterns on titanium substrates for offset printing. *Chemistry - an Asian Journal*, **2009**, 4, 984-8	4.5	46
112	Electrochemical Reduction of CO 2 in the Micropores of Activated Carbon Fibers. *Journal of the Electrochemical Society*, **2000**, 147, 3393	3.9	46
111	Investigations of ruthenium pyrochlores as bifunctional oxygen electrodes. *Journal of Applied Electrochemistry*, **1999**, 29, 1463-1469	2.6	46
110	Unique solvatochromism of a membrane composed of a cationic porphyrin-clay complex. *Langmuir*, **2010**, 26, 4639-41	4	45
109	Platinum Electrodeposition at High Surface Area Carbon Vulcan-XC-72R Material Using a Rotating Disk-Slurry Electrode Technique. *Journal of the Electrochemical Society*, **2010**, 157, F189	3.9	45
108	Boron-doped diamond electrodes: The role of surface termination in the oxidation of dopamine and ascorbic acid. *Diamond and Related Materials*, **2007**, 16, 881-887	3.5	45
107	Microchip capillary electrophoresis with a boron-doped diamond electrochemical detector for analysis of aromatic amines. *Electrophoresis*, **2004**, 25, 3017-23	3.6	44
106	Enhanced electrochemical response in oxidative differential pulse voltammetry of dopamine in the presence of ascorbic acid at carboxyl-terminated boron-doped diamond electrodes. *Electrochimica Acta*, **2009**, 54, 2312-2319	6.7	43
105	The effectiveness of platinum/carbon electrocatalysts: Dependence on catalyst layer thickness and Pt alloy catalytic effects. *Electrochimica Acta*, **2011**, 56, 4783-4790	6.7	43
104	ELECTROCHEMICAL DETECTION OF IONIC MERCURY AT BORON-DOPED DIAMOND ELECTRODES. *Analytical Letters*, **2002**, 35, 355-368	2.2	41
103	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. *Electrochimica Acta*, **2014**, 120, 240-247	6.7	40
102	Fabrication of vertically aligned diamond whiskers from highly boron-doped diamond by oxygen plasma etching. *ACS Applied Materials & Interfaces*, **2011**, 3, 177-82	9.5	40
101	Platinum Electrodeposition on Conductive Diamond Powder and Its Application to Methanol Oxidation in Acidic Media. *Journal of the Electrochemical Society*, **2008**, 155, B264	3.9	40
100	Dichroic Measurements on Dicationic and Tetracationic Porphyrins on Clay Surfaces with Visible-Light-Attenuated Total Reflectance. *Bulletin of the Chemical Society of Japan*, **2007**, 80, 1350-1356	5.1	40
99	Electrochemical generation of ferrate in acidic media at boron-doped diamond electrodes. *Chemical Communications*, **2002**, 486-7	5.8	39
98	Fabrication of structured porous film by electrophoresis. *Journal of the American Chemical Society*, **2001**, 123, 175-6	16.4	39

97	Excited state intermediates probed by electrogenerated chemiluminescence. *Reviews of Chemical Intermediates*, **1981**, 4, 43-79		38
96	Detection of Trace Lead at Boron-Doped Diamond Electrodes by Anodic Stripping Analysis. *Electrochemical and Solid-State Letters*, **1999**, 2, 455		37
95	Radiationless Deactivation Process of 1-Dimethylamino-9-fluorenone Induced by Conformational Relaxation in the Excited State: A New Model Molecule for the TICT Process. *Journal of Physical Chemistry A*, **2002**, 106, 10089-10095	2.8	36
94	Electrochemical characterization of nanoporous honeycomb diamond electrodes in non-aqueous electrolytes. *Diamond and Related Materials*, **2001**, 10, 620-626	3.5	36
93	Electrochemical Modulation of Molecular Conversion in an Azobenzene-Terminated Self-Assembled Monolayer Film: An in Situ UV Visible and Infrared Study. *Langmuir*, **1997**, 13, 4644-4651	4	35
92	How is the water molecule activated on metalloporphyrins? Oxygenation of substrates induced through one-photon/two-electron conversion in artificial photosynthesis by visible light. *Faraday Discussions*, **2012**, 155, 145-63; discussion 207-22	3.6	34
91	Homoepitaxial Single-Crystal Boron-Doped Diamond Electrodes for Electroanalysis. *Journal of the Electrochemical Society*, **2002**, 149, E179	3.9	34
90	Electrochemical quartz crystal microbalance analysis of the oxygen reduction reaction on Pt-based electrodes. Part 2: adsorption of oxygen species and ClO4(-) anions on Pt and Pt-Co alloy in HClO4 solutions. *Langmuir*, **2014**, 30, 432-9	4	33
89	Light Propagation in Composite Two-Dimensional Arrays of Polystyrene Spherical Particles. *Langmuir*, **2000**, 16, 636-642	4	33
88	Highly Durable and Active PtCo Alloy/Graphitized Carbon Black Cathode Catalysts by Controlled Deposition of Stabilized Pt Skin Layers. *Journal of the Electrochemical Society*, **2016**, 163, F455-F463	3.9	32
87	Mercury detection at boron doped diamond electrodes using a rotating disk technique. *Journal of Electroanalytical Chemistry*, **2005**, 577, 287-293	4.1	32
86	Metal-Modified Diamond Electrode as an Electrochemical Detector for Glucose. *Chemistry Letters*, **2001**, 30, 144-145	1.7	32
85	Factors controlling the electrochemical potential window for diamond electrodes in non-aqueous electrolytes. *Diamond and Related Materials*, **2002**, 11, 67-74	3.5	32
84	Sensitive Electrochemical Detection of Oxalate at a Positively Charged Boron-Doped Diamond Surface. *Electroanalysis*, **2008**, 20, 1556-1564	3	31
83	Microscopic Structure and Microscopic Environment of a Polyfluorinated Surfactant/Clay Hybrid Compound: Photochemical Studies of Rose Bengal. *Langmuir*, **2002**, 18, 4232-4239	4	31
82	Electrostatically Induced Isomerization of Azobenzene Derivatives in Langmuir Blodgett Films. *Journal of Physical Chemistry B*, **1997**, 101, 7422-7427	3.4	30
81	Polycrystalline boron-doped diamond films as supports for methanol oxidation electrocatalysts. *Diamond and Related Materials*, **2006**, 15, 275-278	3.5	30
80	Role of Hydrophobic Interaction in Controlling the Orientation of Dicationic Porphyrins on Solid Surfaces. *Journal of Physical Chemistry C*, **2013**, 117, 9245-9251	3.8	29

79	Electrocatalysis for oxygen electrodes in fuel cells and water electrolyzers for space applications. *Journal of Power Sources*, **1990**, 29, 413-422	8.9	29
78	Efficient Decomposition of Perfluorocarboxylic Acids in Aqueous Suspensions of a TiO2Photocatalyst with Medium-Pressure Ultraviolet Lamp Irradiation under Atmospheric Pressure. *Industrial & Engineering Chemistry Research*, **2011**, 50, 10943-10947	3.9	27
77	Oxygen Reduction at the Pt/Carbon Black-Polyimide Ionomer Interface. *Journal of Physical Chemistry C*, **2009**, 113, 7772-7778	3.8	26
76	Anodic Deposition of RuO[sub x]?nH[sub 2]O at Conductive Diamond Films and Conductive Diamond Powder for Electrochemical Capacitors. *Journal of the Electrochemical Society*, **2008**, 155, D73	3.9	26
75	Recent developments in electrochemical and photoelectrochemical CO2 reduction: involvement of the (CO2)2. □dimer radical anion. *Applied Organometallic Chemistry*, **2001**, 15, 113-120	3.1	26
74	Photocatalytic inactivation and removal of algae with TiO2-coated materials. *Journal of Applied Electrochemistry*, **2010**, 40, 1737-1742	2.6	25
73	Synthesis of platinum and platinum□uthenium-modified diamond nanoparticles. *Journal of Nanoparticle Research*, **2011**, 13, 2997-3009	2.3	24
72	Effect of Residual Stress on the Photochemical Properties of TiO2 Thin Films. *Journal of Physical Chemistry C*, **2009**, 113, 12811-12817	3.8	24
71	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. *ACS Omega*, **2018**, 3, 154-158	3.9	22
70	Gradient liquid chromatography of leucine-enkephalin peptide and its metabolites with electrochemical detection using highly boron-doped diamond electrode. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2003**, 791, 63-72	3.2	21
69	Ground state of the singly ionized oxygen vacancy in rutile TiO2. *Journal of Applied Physics*, **2013**, 114, 113702	2.5	20
68	Hydrolyzed polyoxymethylenedimethylethers as liquid fuels for direct oxidation fuel cells. *Electrochimica Acta*, **2013**, 108, 350-355	6.7	20
67	Triplet ground state of the neutral oxygen-vacancy donor in rutile TiO2. *Physical Review B*, **2014**, 89,	3.3	20
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65	Photoelectrochemical Reduction of CO 2 at High Current Densities at p-InP Electrodes. *Journal of the Electrochemical Society*, **1998**, 145, L82-L84	3.9	20
64	Observation of Electrochemical C60Reduction of a Diamond Thin Film Electrode at Room Temperature. *Chemistry Letters*, **1998**, 27, 503-504	1.7	20
63	Electrochemical characteristics for redox systems at nano-honeycomb diamond. *Electrochimica Acta* , **2002**, 47, 4373-4385	6.7	19
62	The electrochemical oxidation of homocysteine at boron-doped diamond electrodes with application to HPLC amperometric detection. *Analyst, The*, **2002**, 127, 1164-8	5	19

61	Preparation and photochemical behavior of polyfluorinated cationic azobenzene-titanoniobate intercalation compounds. *Journal of Materials Chemistry*, **2008**, 18, 4641		18
60	Electrochemical Insertion of Lithium into Pyrite from Nonaqueous Electrolytes at Room Temperature: An in Situ Fe K-Edge X-ray Absorption Fine Structure Study. *The Journal of Physical Chemistry*, **1995**, 99, 3732-3735		18
59	Electrochemical reduction of Cu2+ without surface trapping on synthetic conductive diamond electrodes. *Chemical Physics Letters*, **1999**, 300, 409-413	2.5	17
58	Adhesion of Electroless Deposited Cu on ZnO-Coated Glass Substrates: The Effect of the ZnO Surface Morphology. *Journal of the Electrochemical Society*, **1999**, 146, 2117-2122	3.9	17
57	Facet-selective platinum electrodeposition at free-standing polycrystalline boron-doped diamond films. *Langmuir*, **2009**, 25, 10329-36	4	16
56	Characterization of the Chromophore Orientation of Rhodamine B Amphiphiles in Langmuir-Blodgett Monolayers. *Journal of Colloid and Interface Science*, **2001**, 233, 361-363	9.3	16
55	In Situ X-Ray Absorption Fine Structure Measurements of LaNi5 Electrodes in Alkaline Electrolytes. *Journal of the Electrochemical Society*, **1995**, 142, 824-828	3.9	16
54	Underpotential Deposition of Lithium on Polycrystalline Gold from a LiClO4/Poly(ethylene oxide) Solid Polymer Electrolyte in Ultrahigh Vacuum. *The Journal of Physical Chemistry*, **1995**, 99, 11739-11741		16
53	In Situ Extended X-ray Absorption Fine Structure of an Iron Porphyrin Irreversibly Adsorbed on an Electrode Surface. *The Journal of Physical Chemistry*, **1995**, 99, 10359-10364		15
52	Influence of Pt Loading and Cell Potential on the HF Ohmic Resistance of an Nb-Doped SnO2-Supported Pt Cathode for PEFCs. *Journal of the Electrochemical Society*, **2016**, 163, F97-F105	3.9	14
51	Weakened CO adsorption and enhanced structural integrity of a stabilized Pt skin/PtCo hydrogen oxidation catalyst analysed by in situ X-ray absorption spectroscopy. *Catalysis Science and Technology*, **2017**, 7, 6124-6131	5.5	13
50	The Influence of Fe Substitution in Lanthanum Calcium Cobalt Oxide on the Oxygen Evolution Reaction in Alkaline Media. *Journal of the Electrochemical Society*, **2016**, 163, F1124-F1132	3.9	13
49	Fabrication of micro-patterned TiO2 thin films incorporating Ag nanoparticles. *Materials Letters*, **2009**, 63, 1628-1630	3.3	12
48	Electrospun fibers composed of Al2O3-TiO2 nanocrystals. *Journal of the Ceramic Society of Japan*, **2009**, 117, 1203-1207	1	12
47	Lutetium Monophthalocyanine and Diphthalocyanine Complexes and Lithium Naphthalocyanine as Catalysts for Electrochemical CO[sub 2] Reduction. *Journal of the Electrochemical Society*, **2003**, 150, E608	3.9	12
46	Control of the Dynamics of Photogenerated Carriers at the Boron-Doped Diamond/Electrolyte Interface by Variation of the Surface Termination. *Electrochemical and Solid-State Letters*, **1999**, 2, 457		12
45	Electrochemical Detection of Serotonin Using Conductive Diamond Electrodes. *Chemistry Letters*, **1999**, 28, 1213-1214	1.7	12
44	Temperature Dependence of Oxygen Reduction Activity at Pt/Nb-Doped SnO2 Catalysts with Varied Pt Loading. *ACS Catalysis*, **2021**, 11, 5222-5230	13.1	12

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