

# Donald Tryk

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9412684/publications.pdf>

Version: 2024-02-01

220  
papers

27,558  
citations

10986

71  
h-index

5394

164  
g-index

224  
all docs

224  
docs citations

224  
times ranked

25722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Titanium dioxide photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2000, 1, 1-21.	11.6	6,961
2	TiO <sub>2</sub> photocatalysis and related surface phenomena. <i>Surface Science Reports</i> , 2008, 63, 515-582.	7.2	5,758
3	Heat-treated polyacrylonitrile-based catalysts for oxygen electroreduction. <i>Journal of Applied Electrochemistry</i> , 1989, 19, 19-27.	2.9	622
4	Recent topics in photoelectrochemistry: achievements and future prospects. <i>Electrochimica Acta</i> , 2000, 45, 2363-2376.	5.2	611
5	Heterogeneous photocatalysis: From water photolysis to applications in environmental cleanup. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2664-2672.	7.1	475
6	Visible Light-Sensitive Cu(II)-Grafted TiO <sub>2</sub> Photocatalysts: Activities and X-ray Absorption Fine Structure Analyses. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10761-10766.	3.1	393
7	Highly Ordered TiO <sub>2</sub> Nanotube Arrays with Controllable Length for Photoelectrocatalytic Degradation of Phenol. <i>Journal of Physical Chemistry C</i> , 2008, 112, 253-259.	3.1	362
8	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.	2.9	324
9	A Polymer Electrolyte for Operation at Temperatures up to 200°C. <i>Journal of the Electrochemical Society</i> , 1994, 141, L46-L48.	2.9	282
10	Voltammetric Determination of Cysteine at Conductive Diamond Electrodes. <i>Analytical Chemistry</i> , 2001, 73, 514-519.	6.5	273
11	Facile Fabrication and Photocatalytic Application of Ag Nanoparticles-TiO <sub>2</sub> Nanofiber Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3692-3695.	0.9	260
12	Electrochemical Oxidation of NADH at Highly Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 1999, 71, 2506-2511.	6.5	249
13	Electrochemical Oxidation of Histamine and Serotonin at Highly Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2000, 72, 1632-1638.	6.5	247
14	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.	11.6	245
15	Superhydrophobic TiO <sub>2</sub> Surfaces: Preparation, Photocatalytic Wettability Conversion, and Superhydrophobic to Superhydrophilic Patterning. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14521-14529.	3.1	242
16	Electrochemical selectivity for redox systems at oxygen-terminated diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999, 473, 173-178.	3.8	239
17	Autoxidation of Acetaldehyde Initiated by TiO <sub>2</sub> Photocatalysis under Weak UV Illumination. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2699-2704.	2.6	216
18	TiO <sub>2</sub> photocatalysts and diamond electrodes. <i>Electrochimica Acta</i> , 2000, 45, 4683-4690.	5.2	208

#	ARTICLE	IF	CITATIONS
19	Selective Voltammetric and Amperometric Detection of Uric Acid with Oxidized Diamond Film Electrodes. <i>Analytical Chemistry</i> , 2000, 72, 1724-1727.	6.5	194
20	Binary cooperative complementary nanoscale interfacial materials. <i>Pure and Applied Chemistry</i> , 2000, 72, 73-81.	1.9	176
21	High-Density Adsorption of Cationic Porphyrins on Clay Layer Surfaces without Aggregation: The Size-Matching Effect. <i>Langmuir</i> , 2002, 18, 2265-2272.	3.5	175
22	Anodic Voltammetry of Xanthine, Theophylline, Theobromine and Caffeine at Conductive Diamond Electrodes and Its Analytical Application. <i>Electroanalysis</i> , 2002, 14, 721.	2.9	173
23	Anatase TiO <sub>2</sub> Nanoparticles on Rutile TiO <sub>2</sub> Nanorods: A Heterogeneous Nanostructure via Layer-by-Layer Assembly. <i>Langmuir</i> , 2007, 23, 10916-10919.	3.5	167
24	TiO <sub>2</sub> -mediated photodegradation of liquid and solid organic compounds. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 137, 53-62.	3.9	161
25	Remote Bleaching of Methylene Blue by UV-Irradiated TiO <sub>2</sub> in the Gas Phase. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8033-8035.	2.6	157
26	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.	6.5	157
27	The electrochemistry of graphite and modified graphite surfaces: the reduction of O <sub>2</sub> . <i>Electrochimica Acta</i> , 1989, 34, 1733-1737.	5.2	142
28	New Mesoporous TiO <sub>2</sub> Surface Prepared Using a Two-Dimensional Array-Based Template of Silica Particles. <i>Langmuir</i> , 1998, 14, 6441-6447.	3.5	137
29	Transition metal macrocycles supported on high area carbon: Pyrolysis mass spectrometry studies. <i>Electrochimica Acta</i> , 1986, 31, 1247-1258.	5.2	134
30	Electroanalysis of dopamine and NADH at conductive diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999, 473, 179-185.	3.8	133
31	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.	2.9	131
32	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.	2.2	130
33	Electrochemical properties of Pt-modified nano-honeycomb diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2001, 514, 35-50.	3.8	121
34	Electrochemical detection of tricyclic antidepressant drugs by HPLC using highly boron-doped diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2002, 521, 117-126.	3.8	118
35	Photochemical Energy Transfer of Cationic Porphyrin Complexes on Clay Surface. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5455-5460.	2.6	117
36	New evaluation method for the effectiveness of platinum/carbon electrocatalysts under operating conditions. <i>Electrochimica Acta</i> , 2010, 55, 8504-8512.	5.2	117

#	ARTICLE	IF	CITATIONS
37	Overview of recent developments in oxygen reduction electrocatalysis. <i>Electrochimica Acta</i> , 2012, 84, 187-201.	5.2	117
38	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.	6.2	116
39	Electrochemical approaches to alleviation of the problem of carbon dioxide accumulation. <i>Pure and Applied Chemistry</i> , 2001, 73, 1917-1927.	1.9	115
40	Nanofibrous TiO <sub>2</sub> -Core/Conjugated Polymer-Sheath Composites: Synthesis, Structural Properties and Photocatalytic Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7951-7957.	0.9	115
41	In situ ATR-FTIR study of oxygen reduction at the Pt/Nafion interface. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 621-629.	2.8	114
42	Electrochemical Characterization of the Nanoporous Honeycomb Diamond Electrode as an Electrical Double-Layer Capacitor. <i>Journal of the Electrochemical Society</i> , 2000, 147, 659.	2.9	110
43	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, 5734-5740.	13.7	110
44	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.	3.8	106
45	Microchip Capillary Electrophoresis Coupled with a Boron-Doped Diamond Electrode-Based Electrochemical Detector. <i>Analytical Chemistry</i> , 2003, 75, 935-939.	6.5	106
46	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.	5.2	105
47	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.	3.9	103
48	Light-Stimulated Composition Conversion in TiO <sub>2</sub> -Based Nanofibers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 658-665.	3.1	102
49	A transparent and photo-patternable superhydrophobic film. <i>Chemical Communications</i> , 2007, , 4949.	4.1	102
50	Surface carbonyl groups on oxidized diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2000, 492, 31-37.	3.8	101
51	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.	2.8	99
52	Varying the Optical Stop Band of a Three-Dimensional Photonic Crystal by Refractive Index Control. <i>Langmuir</i> , 2001, 17, 6751-6753.	3.5	91
53	Intercalation of Polyfluorinated Surfactants into Clay Minerals and the Characterization of the Hybrid Compounds. <i>Langmuir</i> , 2002, 18, 891-896.	3.5	91
54	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.	2.6	89

#	ARTICLE	IF	CITATIONS
55	Methanol-tolerant electrocatalysts for oxygen reduction in a polymer electrolyte membrane fuel cell. <i>Journal of Applied Electrochemistry</i> , 1998, 28, 673-682.	2.9	88
56	Impedance Characteristics of the Nanoporous Honeycomb Diamond Electrodes for Electrical Double-Layer Capacitor Applications. <i>Journal of the Electrochemical Society</i> , 2001, 148, A668.	2.9	86
57	Electron Transfer from the Porphyrin S <sub>2</sub> State in a Zinc Porphyrin-Rhenium Bipyridyl Dyad having Carbon Dioxide Reduction Activity. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11667-11673.	3.1	86
58	Detection of trace levels of Pb <sup>2+</sup> in tap water at boron-doped diamond electrodes with anodic stripping voltammetry. <i>Electrochimica Acta</i> , 2006, 51, 2437-2441.	5.2	84
59	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.	2.9	83
60	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.	2.2	83
61	Determination of Nitrite and Nitrogen Oxides by Anodic Voltammetry at Conductive Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2001, 148, E112.	2.9	83
62	Production of syngas plus oxygen from CO <sub>2</sub> in a gas-diffusion electrode-based electrolytic cell. <i>Electrochimica Acta</i> , 2002, 47, 3327-3334.	5.2	83
63	Radiationless Deactivation of an Intramolecular Charge Transfer Excited State through Hydrogen Bonding: A Effect of Molecular Structure and Hard Soft Anionic Character in the Excited State. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10488-10496.	2.5	80
64	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.	3.9	79
65	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.	3.8	79
66	Electrochemical Reduction of CO <sub>2</sub> with Transition Metal Phthalocyanine and Porphyrin Complexes Supported on Activated Carbon Fibers. <i>Journal of the Electrochemical Society</i> , 2002, 149, D89.	2.9	78
67	Application of Diamond Microelectrodes for End-Column Electrochemical Detection in Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2003, 75, 530-534.	6.5	77
68	Structural investigation of azobenzene-containing self-assembled monolayer films. <i>Journal of Electroanalytical Chemistry</i> , 1997, 438, 213-219.	3.8	75
69	Kinetic Investigations of Oxygen Reduction and Evolution Reactions on Lead Ruthenate Catalysts. <i>Journal of the Electrochemical Society</i> , 1999, 146, 4145-4151.	2.9	73
70	Interaction of Pb and Cd during anodic stripping voltammetric analysis at boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2004, 49, 3313-3318.	5.2	73
71	Light-Harvesting Energy Transfer and Subsequent Electron Transfer of Cationic Porphyrin Complexes on Clay Surfaces. <i>Langmuir</i> , 2006, 22, 1406-1408.	3.5	71
72	Boron-Doped Diamond-Based Sensors: A Review. <i>Sensor Letters</i> , 2006, 4, 99-119.	0.4	71

#	ARTICLE	IF	CITATIONS
73	Electrochemical Behavior of Cobalt Oxide Films Deposited at Conductive Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2003, 150, E337.	2.9	70
74	Diamond Nanoparticles as a Support for Pt and PtRu Catalysts for Direct Methanol Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1134-1147.	8.0	67
75	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.	11.2	67
76	Decomposition of endocrine-disrupting chemicals in water by use of TiO <sub>2</sub> photocatalysts immobilized on polytetrafluoroethylene mesh sheets. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 151, 207-212.	3.9	66
77	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, 1476-1490.	13.7	66
78	Photoelectrochemical Reduction of CO <sub>2</sub> in a High-Pressure CO <sub>2</sub> + Methanol Medium at p-Type Semiconductor Electrodes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9834-9843.	2.6	64
79	The electrooxidation of organic acids at boron-doped diamond electrodes. <i>Electrochemistry Communications</i> , 2000, 2, 422-426.	4.7	63
80	The electrochemical response of highly boron-doped conductive diamond electrodes to Ce <sup>3+</sup> ions in aqueous solution. <i>Electrochimica Acta</i> , 1999, 44, 3441-3449.	5.2	61
81	Investigation of the Surface Morphology and Photoisomerization of an Azobenzene-Containing Ultrathin Film. <i>Langmuir</i> , 1996, 12, 2052-2057.	3.5	60
82	Electrochemical Characterization of Highly Boron-Doped Diamond Microelectrodes in Aqueous Electrolyte. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1469-1471.	2.9	57
83	Fibrous TiO <sub>2</sub> -SiO <sub>2</sub> nanocomposite photocatalyst. <i>Chemical Communications</i> , 2006, , 4483-4485.	4.1	57
84	Investigations of ruthenium pyrochlores as bifunctional oxygen electrodes. <i>Journal of Applied Electrochemistry</i> , 1999, 29, 1463-1469.	2.9	56
85	In situ x-ray absorption fine structure studies of foreign metal ions in nickel hydrous oxide electrodes in alkaline electrolytes. <i>The Journal of Physical Chemistry</i> , 1994, 98, 10269-10276.	2.9	55
86	Metal-Coated Colloidal Crystal Film as Surface-Enhanced Raman Scattering Substrate. <i>Langmuir</i> , 2002, 18, 5043-5046.	3.5	55
87	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.	2.9	53
88	Electrochemical Reduction of CO <sub>2</sub> in the Micropores of Activated Carbon Fibers. <i>Journal of the Electrochemical Society</i> , 2000, 147, 3393.	2.9	53
89	AC impedance studies of anodically treated polycrystalline and homoepitaxial boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2003, 48, 2739-2748.	5.2	53
90	Covalent Modification of Single-Crystal Diamond Electrode Surfaces. <i>Journal of the Electrochemical Society</i> , 2005, 152, E18.	2.9	53

#	ARTICLE	IF	CITATIONS
91	Development of solar-driven electrochemical and photocatalytic water treatment system using a boron-doped diamond electrode and TiO <sub>2</sub> photocatalyst. <i>Water Research</i> , 2010, 44, 904-910.	11.3	53
92	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.	3.9	52
93	Large-scale fabrication of Ag nanoparticles in PVP nanofibres and net-like silver nanofibre films by electrospinning. <i>Nanotechnology</i> , 2007, 18, 075605.	2.6	52
94	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.	2.9	52
95	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.	5.2	52
96	Microchip capillary electrophoresis with a boron-doped diamond electrochemical detector for analysis of aromatic amines. <i>Electrophoresis</i> , 2004, 25, 3017-3023.	2.4	50
97	Unique Solvatochromism of a Membrane Composed of a Cationic Porphyrin-Clay Complex. <i>Langmuir</i> , 2010, 26, 4639-4641.	3.5	50
98	Resistance to Surfactant and Protein Fouling Effects at Conducting Diamond Electrodes. <i>Electroanalysis</i> , 2005, 17, 305-311.	2.9	49
99	Fabrication and Application of TiO <sub>2</sub> -Based Superhydrophilic/Superhydrophobic Patterns on Titanium Substrates for Offset Printing. <i>Chemistry - an Asian Journal</i> , 2009, 4, 984-988.	3.3	49
100	ELECTROCHEMICAL DETECTION OF IONIC MERCURY AT BORON-DOPED DIAMOND ELECTRODES. <i>Analytical Letters</i> , 2002, 35, 355-368.	1.8	48
101	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.	5.2	48
102	The effectiveness of platinum/carbon electrocatalysts: Dependence on catalyst layer thickness and Pt alloy catalytic effects. <i>Electrochimica Acta</i> , 2011, 56, 4783-4790.	5.2	48
103	Homoepitaxial Single-Crystal Boron-Doped Diamond Electrodes for Electroanalysis. <i>Journal of the Electrochemical Society</i> , 2002, 149, E179.	2.9	47
104	Fabrication of Vertically Aligned Diamond Whiskers from Highly Boron-Doped Diamond by Oxygen Plasma Etching. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 177-182.	8.0	47
105	Electrochemical generation of ferrate in acidic media at boron-doped diamond electrodes. <i>Chemical Communications</i> , 2002, , 486-487.	4.1	45
106	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.	3.5	44
107	Fabrication of Structured Porous Film by Electrophoresis. <i>Journal of the American Chemical Society</i> , 2001, 123, 175-176.	13.7	44
108	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.	2.9	44



#	ARTICLE	IF	CITATIONS
109	Factors controlling the electrochemical potential window for diamond electrodes in non-aqueous electrolytes. <i>Diamond and Related Materials</i> , 2002, 11, 67-74.	3.9	42
110	Excited state intermediates probed by electrogenerated chemiluminescence. <i>Reviews of Chemical Intermediates</i> , 1981, 4, 43-79.	1.1	41
111	Detection of Trace Lead at Boron-Doped Diamond Electrodes by Anodic Stripping Analysis. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 455.	2.2	40
112	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.	3.2	40
113	Electrochemical characterization of nanoporous honeycomb diamond electrodes in non-aqueous electrolytes. <i>Diamond and Related Materials</i> , 2001, 10, 620-626.	3.9	39
114	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.	2.5	39
115	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.	2.9	38
116	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, 145-163.	3.2	36
117	Light Propagation in Composite Two-Dimensional Arrays of Polystyrene Spherical Particles. <i>Langmuir</i> , 2000, 16, 636-642.	3.5	35
118	Metal-Modified Diamond Electrode as an Electrochemical Detector for Glucose. <i>Chemistry Letters</i> , 2001, 30, 144-145.	1.3	35
119	Sensitive Electrochemical Detection of Oxalate at a Positively Charged Boron-Doped Diamond Surface. <i>Electroanalysis</i> , 2008, 20, 1556-1564.	2.9	35
120	Polycrystalline boron-doped diamond films as supports for methanol oxidation electrocatalysts. <i>Diamond and Related Materials</i> , 2006, 15, 275-278.	3.9	34
121	Electrocatalysis for oxygen electrodes in fuel cells and water electrolyzers for space applications. <i>Journal of Power Sources</i> , 1990, 29, 413-422.	7.8	33
122	Mercury detection at boron doped diamond electrodes using a rotating disk technique. <i>Journal of Electroanalytical Chemistry</i> , 2005, 577, 287-293.	3.8	33
123	Electrochemical Quartz Crystal Microbalance Analysis of the Oxygen Reduction Reaction on Pt-Based Electrodes. Part 2: Adsorption of Oxygen Species and ClO <sub>4</sub> <sup>-</sup> Anions on Pt and Pt-Co Alloy in HClO <sub>4</sub> Solutions. <i>Langmuir</i> , 2014, 30, 432-439.	3.5	33
124	Electrostatically Induced Isomerization of Azobenzene Derivatives in Langmuir-Blodgett Films. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7422-7427.	2.6	32
125	Microscopic Structure and Microscopic Environment of a Polyfluorinated Surfactant/Clay Hybrid Compound: A Photochemical Studies of Rose Bengal. <i>Langmuir</i> , 2002, 18, 4232-4239.	3.5	32
126	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.	3.1	32



#	ARTICLE	IF	CITATIONS
127	Recent developments in electrochemical and photoelectrochemical CO <sub>2</sub> reduction: involvement of the (CO <sub>2</sub> ) <sub>2</sub> · dimer radical anion. <i>Applied Organometallic Chemistry</i> , 2001, 15, 113-120.	3.5	31
128	Atomically Flat Pt Skin and Striking Enrichment of Co in Underlying Alloy at Pt <sub>3</sub> Co(111) Single Crystal with Unprecedented Activity for the Oxygen Reduction Reaction. <i>ACS Omega</i> , 2018, 3, 154-158.	3.5	30
129	Anodic Deposition of RuO <sub>x</sub> ·nH <sub>2</sub> O at Conductive Diamond Films and Conductive Diamond Powder for Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2008, 155, D73.	2.9	29
130	Efficient Decomposition of Perfluorocarboxylic Acids in Aqueous Suspensions of a TiO <sub>2</sub> Photocatalyst with Medium-Pressure Ultraviolet Lamp Irradiation under Atmospheric Pressure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 10943-10947.	3.7	29
131	Temperature Dependence of Oxygen Reduction Activity at Pt/Nb-Doped SnO <sub>2</sub> Catalysts with Varied Pt Loading. <i>ACS Catalysis</i> , 2021, 11, 5222-5230.	11.2	28
132	Photocatalytic inactivation and removal of algae with TiO <sub>2</sub> -coated materials. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1737-1742.	2.9	27
133	Synthesis of platinum and platinum-ruthenium-modified diamond nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2997-3009.	1.9	27
134	Oxygen Reduction at the Pt/Carbon Black-Polyimide Ionomer Interface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7772-7778.	3.1	26
135	The electrochemical oxidation of homocysteine at boron-doped diamond electrodes with application to HPLC amperometric detection. <i>Analyst</i> , 2002, 127, 1164-1168.	3.5	25
136	Underpotential deposition of hydrogen on Pt(111): a combined direct molecular dynamics/density functional theory study. <i>Molecular Simulation</i> , 2008, 34, 1065-1072.	2.0	25
137	Effect of Residual Stress on the Photochemical Properties of TiO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12811-12817.	3.1	25
138	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.	2.9	24
139	Observation of Electrochemical C <sub>60</sub> Reduction of a Diamond Thin Film Electrode at Room Temperature. <i>Chemistry Letters</i> , 1998, 27, 503-504.	1.3	24
140	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.	2.3	23
141	Ground state of the singly ionized oxygen vacancy in rutile TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	23
142	Electrochemical reduction of Cu <sup>2+</sup> without surface trapping on synthetic conductive diamond electrodes. <i>Chemical Physics Letters</i> , 1999, 300, 409-413.	2.6	22
143	Electrochemical characteristics for redox systems at nano-honeycomb diamond. <i>Electrochimica Acta</i> , 2002, 47, 4373-4385.	5.2	22
144	Preparation and photochemical behavior of polyfluorinated cationic azobenzene-titanoniobate intercalation compounds. <i>Journal of Materials Chemistry</i> , 2008, 18, 4641.	6.7	22

#	ARTICLE	IF	CITATIONS
145	Hydrolyzed polyoxymethylenedimethylethers as liquid fuels for direct oxidation fuel cells. <i>Electrochimica Acta</i> , 2013, 108, 350-355.	5.2	22
146	Photoelectrochemical Reduction of $\text{CO}_2$ at High Current Densities at $\text{InP}$ Electrodes. <i>Journal of the Electrochemical Society</i> , 1998, 145, L82-L84.	2.9	21
147	Triplet ground state of the neutral oxygen-vacancy donor in rutile $\text{TiO}_2$ . <i>Physical Review B</i> , 2014, 89, .	3.2	21
148	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.	2.9	20
149	In Situ X-ray Absorption Fine Structure Measurements of $\text{LaNi}_5$ Electrodes in Alkaline Electrolytes. <i>Journal of the Electrochemical Society</i> , 1995, 142, 824-828.	2.9	19
150	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.	2.9	19
151	Facet-Selective Platinum Electrodeposition at Free-standing Polycrystalline Boron-Doped Diamond Films. <i>Langmuir</i> , 2009, 25, 10329-10336.	3.5	19
152	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.	2.9	19
153	Unparalleled mitigation of membrane degradation in fuel cells via a counter-intuitive approach: suppression of $\text{H}_2\text{O}_2$ production at the hydrogen anode using a Pt-skin/PtCo catalyst. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1091-1094.	10.3	19
154	Underpotential Deposition of Lithium on Polycrystalline Gold from a $\text{LiClO}_4/\text{Poly}(\text{ethylene oxide})$ Solid Polymer Electrolyte in Ultrahigh Vacuum. <i>The Journal of Physical Chemistry</i> , 1995, 99, 11739-11741.	2.9	17
155	Influence of Pt Loading and Cell Potential on the HF Ohmic Resistance of an Nb-Doped $\text{SnO}_2$ -Supported Pt Cathode for PEFCs. <i>Journal of the Electrochemical Society</i> , 2016, 163, F97-F105.	2.9	17
156	Pt nanorods oriented on Gd-doped ceria polyhedra enable superior oxygen reduction catalysis for fuel cells. <i>Journal of Catalysis</i> , 2022, 407, 300-311.	6.2	17
157	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.	9.4	16
158	Weakened CO adsorption and enhanced structural integrity of a stabilized Pt skin/PtCo hydrogen oxidation catalyst analysed by <i>in situ</i> X-ray absorption spectroscopy. <i>Catalysis Science and Technology</i> , 2017, 7, 6124-6131.	4.1	16
159	Effects of Sulfate on the Oxygen Reduction Reaction Activity on Stabilized Pt Skin/PtCo Alloy Catalysts from 30 to 80 $^\circ\text{C}$ . <i>Langmuir</i> , 2018, 34, 13558-13564.	3.5	16
160	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.	2.2	14
161	Electrochemical Detection of Serotonin Using Conductive Diamond Electrodes. <i>Chemistry Letters</i> , 1999, 28, 1213-1214.	1.3	13
162	Electrospun fibers composed of $\text{Al}_2\text{O}_3\text{-TiO}_2$ nanocrystals. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1203-1207.	1.1	13

#	ARTICLE	IF	CITATIONS
163	Performance hysteresis phenomena of anion exchange membrane fuel cells using an Fe-N-C cathode catalyst and an in-house-developed polymer electrolyte. <i>Journal of Power Sources</i> , 2021, 487, 229407.	7.8	13
164	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.	7.8	13
165	Observation of Light Propagation in Single Layers of Composite Two-Dimensional Arrays. <i>Langmuir</i> , 2000, 16, 1180-1184.	3.5	12
166	Lutetium Monophthalocyanine and Diphtalocyanine Complexes and Lithium Naphthalocyanine as Catalysts for Electrochemical CO <sub>2</sub> Reduction. <i>Journal of the Electrochemical Society</i> , 2003, 150, E608.	2.9	12
167	Fabrication of micro-patterned TiO <sub>2</sub> thin films incorporating Ag nanoparticles. <i>Materials Letters</i> , 2009, 63, 1628-1630.	2.6	12
168	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.	5.2	12
169	Novel in situ and ex situ techniques for the study of lithium/electrolyte interfaces. <i>Journal of Power Sources</i> , 1995, 54, 20-27.	7.8	11
170	Electrochemical Reduction of CO <sub>2</sub> in Micropores. <i>Chemistry Letters</i> , 1998, 27, 825-826.	1.3	11
171	Electrochemical examination of the ascorbic acid radical anion in non-aqueous electrolytes. <i>Electrochimica Acta</i> , 2002, 47, 4387-4392.	5.2	11
172	High hydrogen evolution activity and suppressed H <sub>2</sub> O <sub>2</sub> production on Pt-skin/PtFe alloy nanocatalysts for proton exchange membrane water electrolysis. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2861-2865.	2.8	11
173	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.	3.5	10
174	Transition-Metal Oxide Electrocatalysts for O <sub>2</sub> Electrodes: The Pyrochlores. , 1992, , 93-106.		8
175	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.	3.2	8
176	Nanolithographic modification of diamond. <i>Diamond and Related Materials</i> , 2002, 11, 1788-1796.	3.9	8
177	Enhanced oxygen reduction electrocatalysis on PtCoSn alloy nanocatalyst mediated by Ta-doped SnO <sub>2</sub> support for polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2021, 390, 138894.	5.2	8
178	Nature of the photographic diamond surface phenomenon on boron-doped diamond. <i>Electrochimica Acta</i> , 2000, 45, 3375-3378.	5.2	7
179	(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.	0.5	7
180	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.	13.7	6

#	ARTICLE	IF	CITATIONS
181	Electrochemical Determination of Cation Radical Stabilities of Monomethylbenzo[a]pyrenes. Journal of the Electrochemical Society, 1983, 130, 597-603.	2.9	6
182	In Situ La, Ce, and Nd Lâ€Edge Xâ€Ray Absorption Fine Structure Study of an Intermetallic Metal Hydride Electrode in an Operating Alkaline Battery. Journal of the Electrochemical Society, 1995, 142, L76-L78.	2.9	6
183	Pt/C Catalyst Preparation Using Rotating Disk-Slurry Electrode (RoDSE) Technique. ECS Transactions, 2007, 3, 35-40.	0.5	6
184	Properties and Morphologies of Anion-Exchange Membranes with Different Lengths of Fluorinated Hydrophobic Chains. ACS Omega, 2022, 7, 13577-13587.	3.5	6
185	Algorithm for the determination of decay rate constants by reversal current chronopotentiometry. Analytical Chemistry, 1979, 51, 585-586.	6.5	5
186	Oxygen effect on the electrochemical behavior of n-type sulfur-doped diamond. Diamond and Related Materials, 2006, 15, 221-224.	3.9	5
187	Particle-Size Effect of Pt Anode Catalysts on H <sub>2</sub> O <sub>2</sub> Production Rate and H <sub>2</sub> Oxidation Activity at 20 to 80 Â°C. Journal of the Electrochemical Society, 2022, 169, 014516.	2.9	4
188	Imaging of One-Dimensional Conducting Pt Complexes Using Atomic Force Microscopy. Chemistry Letters, 1995, 24, 879-880.	1.3	3
189	Electrochemistry in Ultrahigh Vacuum: Intercalation of Lithium into the Basal Plane of Highly Oriented Pyrolytic Graphite from a Poly(ethylene oxide)/LiClO <sub>4</sub> Solid Polymer Electrolyte. The Journal of Physical Chemistry, 1995, 99, 11797-11800.	2.9	3
190	Surface Molecular Rearrangements on the (0001) Face of C <sub>70</sub> Single Crystals. Japanese Journal of Applied Physics, 1997, 36, 3903-3908.	1.5	3
191	Electrophoretic preparation and characterization of porous electrodes from diamond nanoparticles. Journal of Physics: Conference Series, 2007, 61, 1022-1026.	0.4	3
192	Surface residual stress dependence on photoinduced highly hydrophilic conversion and back-reaction in the dark of rutile single crystals. Physical Chemistry Chemical Physics, 2010, 12, 7911.	2.8	3
193	Tafel Slope Component Analysis of Polymer Electrolyte Fuel Cell Cathode Current-Potential Behavior. ECS Transactions, 2011, 35, 13-23.	0.5	3
194	Microstructure and the Mobility of Fluorinated Carbon Chain of Reversed Micelles Formed by Cationic Polyfluorinated Surfactant. Bulletin of the Chemical Society of Japan, 2014, 87, 1273-1277.	3.2	3
195	The Role of Carbon Blacks as Catalyst Supports and Structural Elements in Polymer Electrolyte Fuel Cells. Nanostructure Science and Technology, 2019, , 81-118.	0.1	3
196	Response of Conductive Diamond Electrode to Pb <sup>2+</sup> /PbO <sub>2</sub> Redox Process in HNO <sub>3</sub> Aqueous Solution.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2003, 54, 64-68.	0.2	2
197	Effect of ZnO Film Thicknesses on the Adhesive Strength of Electroless Cu Deposits. Chemistry Letters, 1999, 28, 11-12.	1.3	1
198	ZnO Thin Film-Based New Electroless Metal Deposition. Electrochemistry, 1999, 67, 11-17.	1.4	1

#	ARTICLE	IF	CITATIONS
199	Modeling the Effect of Underlying Cobalt on the Electrochemical Behavior of Pt-Skin / Pt <sub>100-x</sub> Co <sub>x</sub> (111) Single Crystal Electrodes. ECS Meeting Abstracts, 2019, , .	0.0	1
200	Modulation of Electron Transfer Activity at Diamond Films by Dissolved Oxygen in Aqueous Solution. Journal of the Electrochemical Society, 2009, 156, J152.	2.9	0
201	Diffusion structural diagnostics of polycrystalline boron-doped diamond films. Thermochemica Acta, 2011, 524, 104-108.	2.7	0
202	The Road Taken to Japan. Hyomen Kagaku, 2015, 36, 592-593.	0.0	0
203	Fuel Cells: An Overview with Emphasis on Polymer Electrolyte Fuel Cells. , 2017, , 51-94.		0
204	The Scientific Legacy of Su-Moon Park: a Personal View. Journal of Electrochemical Science and Technology, 2013, 4, 119-124.	2.2	0
205	The Scientific Legacy of Su-Moon Park: a Personal View. Journal of Electrochemical Science and Technology, 2013, 4, 119-124.	2.2	0
206	Highly Active, CO-Tolerant and Robust Hydrogen Anode Catalysts: Pt-M (M=Fe, Co, and Ni) Alloys with Stabilized Pt Skin. ECS Meeting Abstracts, 2016, , .	0.0	0
207	(Invited) Enhanced Hydrogen Oxidation Activity at Pt-M Alloy Catalysts in Acid: A DFT Study. ECS Meeting Abstracts, 2016, , .	0.0	0
208	Effect of HClO <sub>4</sub> Concentration on Oxygen Reduction Reaction Activity at Pt and Pt-Co Alloy Single Crystal Electrodes. ECS Meeting Abstracts, 2016, , .	0.0	0
209	(Invited) Analyses of CO Tolerance at Stabilized Pt-Skin/Ptfe and PtCo Hydrogen Anode Catalysts with High Activity and Robustness for Residential PEFCs. ECS Meeting Abstracts, 2017, , .	0.0	0
210	Density Functional Theory Studies of CO-Tolerant Stabilized Platinum Skin/Platinum Alloy Catalysts for the Hydrogen Oxidation Reaction. ECS Meeting Abstracts, 2017, , .	0.0	0
211	(Invited) Recent Progress in the Understanding of the Electrocatalysis of the CO-Tolerant Hydrogen Oxidation Reaction in Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
212	Effect of Underlying Cobalt Content on Oxygen Reduction Reaction Activity at Pt-Skin/Pt <sub>100-x</sub> Co <sub>x</sub> (111) Single Crystal Electrodes. ECS Meeting Abstracts, 2019, , .	0.0	0
213	(Invited) Highly Active and Robust Pt-Skin/Pt Alloy Two-Way Catalysts for Oxygen Reduction and Hydrogen Oxidation in PEFCs. ECS Meeting Abstracts, 2019, , .	0.0	0
214	The Role of Theory in the Development of Electrocatalysts: Case Study on Pt-Skin/Pt Alloy Nanoparticles for Hydrogen Oxidation and Evolution. ECS Meeting Abstracts, 2019, , .	0.0	0
215	Suppression of H <sub>2</sub> O <sub>2</sub> Formation at Pt-Skin/Pt Alloy Hydrogen Anode Catalysts for Mitigation of Membrane Degradation. ECS Meeting Abstracts, 2019, , .	0.0	0
216	Effect of Water Management for Membranes and Catalyst Layers Using an In-House Developed Polymer Electrolyte on Cell Performance Hysteresis in Anion Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1206-1206.	0.0	0

#	ARTICLE	IF	CITATIONS
217	A Simple Analytical Approach for Fitting Steady-State Polarization Behavior of Polymer Electrolyte Fuel Cells Using Tafel Slope Component Analysis (TSCA). ECS Meeting Abstracts, 2020, MA2020-02, 2177-2177.	0.0	0
218	Study of Cathode Catalyst Layers for Anion Exchange Membrane Fuel Cells Using Fe-N-C Catalyst and a Novel Polymer Electrolyte. ECS Meeting Abstracts, 2020, MA2020-02, 2349-2349.	0.0	0
219	(Invited) Effect of Water Management for Cathode Catalyst Layers Using a Non-Noble Metal Catalyst and a Novel Polymer Electrolyte on Cell Performance Hysteresis in Anion Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2371-2371.	0.0	0
220	Activation of the Oxygen Reduction Reaction at an Interface-Regulated Pt/Nb-SnO <sub>2</sub> Catalyst. ECS Meeting Abstracts, 2020, MA2020-02, 2332-2332.	0.0	0