

David E Cliffel

List of Publications by Year in descending order

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131
papers

6,440
citations

61984

43
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69250

77
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137
all docs

137
docs citations

137
times ranked

7852
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Sensors and Biosensors. <i>Analytical Chemistry</i> , 2012, 84, 685-707.	6.5	752
2	A Pt ^{II} /Ru/Graphitic Carbon Nanofiber Nanocomposite Exhibiting High Relative Performance as a Direct-Methanol Fuel Cell Anode Catalyst. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8097-8101.	2.6	351
3	Redox and Fluorophore Functionalization of Water-Soluble, Tiopronin-Protected Gold Clusters. <i>Journal of the American Chemical Society</i> , 1999, 121, 7081-7089.	13.7	289
4	Electronic Conductivity of Solid-State, Mixed-Valent, Monolayer-Protected Au Clusters. <i>Journal of the American Chemical Society</i> , 2000, 122, 11465-11472.	13.7	283
5	Functionalized Nanoporous Gold Leaf Electrode Films for the Immobilization of Photosystem I. <i>ACS Nano</i> , 2008, 2, 2465-2472.	14.6	173
6	Mercaptoammonium-Monolayer-Protected, Water-Soluble Gold, Silver, and Palladium Clusters. <i>Langmuir</i> , 2000, 16, 9699-9702.	3.5	169
7	In vivo toxicity, biodistribution, and clearance of glutathione-coated gold nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 257-263.	3.3	165
8	Electrochemistry of fullerene films. <i>Thin Solid Films</i> , 1995, 257, 166-184.	1.8	155
9	Engineering Challenges for Instrumenting and Controlling Integrated Organ-on-Chip Systems. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 682-690.	4.2	155
10	Ag ₄₄ (SR) ₃₀₄ : a silver-thiolate superatom complex. <i>Nanoscale</i> , 2012, 4, 4269.	5.6	154
11	Enhanced Photocurrent Production by Photosystem I Multilayer Assemblies. <i>Advanced Functional Materials</i> , 2010, 20, 4048-4054.	14.9	126
12	Photosystem I Based biohybrid photoelectrochemical cells. <i>Bioresource Technology</i> , 2010, 101, 3047-3053.	9.6	120
13	Synthesis and Catalytic Properties of Soluble Platinum Nanoparticles Protected by a Thiol Monolayer. <i>Langmuir</i> , 2004, 20, 6012-6018.	3.5	114
14	Short-Chain PEG Mixed Monolayer Protected Gold Clusters Increase Clearance and Red Blood Cell Counts. <i>ACS Nano</i> , 2011, 5, 3577-3584.	14.6	104
15	Enhanced Photocurrents of Photosystem I Films on p-Doped Silicon. <i>Advanced Materials</i> , 2012, 24, 5959-5962.	21.0	102
16	A Microphysiometer for Simultaneous Measurement of Changes in Extracellular Glucose, Lactate, Oxygen, and Acidification Rate. <i>Analytical Chemistry</i> , 2004, 76, 519-527.	6.5	99
17	Rapid Assembly of Photosystem I Monolayers on Gold Electrodes. <i>Langmuir</i> , 2008, 24, 8409-8412.	3.5	98
18	Scanning Electrochemical Microscopy. 37. Light Emission by Electrogenenerated Chemiluminescence at SECM Tips and Their Application to Scanning Optical Microscopy. <i>Analytical Chemistry</i> , 1998, 70, 2941-2948.	6.5	91

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19	NanoLiterBioReactor: Long-Term Mammalian Cell Culture at Nanofabricated Scale. Biomedical Microdevices, 2004, 6, 325-339.	2.8	90
20	Characterization of thiolate-protected gold nanoparticles by mass spectrometry. Analyst, The, 2010, 135, 868.	3.5	90
21	Glucose and Lactate Biosensors for Scanning Electrochemical Microscopy Imaging of Single Live Cells. Analytical Chemistry, 2008, 80, 2717-2727.	6.5	86
22	Photosystem I-polyaniline/TiO ₂ solid-state solar cells: simple devices for biohybrid solar energy conversion. Energy and Environmental Science, 2015, 8, 3572-3576.	30.8	85
23	The effect of As, Co, and Ni impurities on pyrite oxidation kinetics: An electrochemical study of synthetic pyrite. Geochimica Et Cosmochimica Acta, 2007, 71, 2491-2509.	3.9	75
24	Electrochemical Studies of the Protonation of C60- and C60 ²⁻ . The Journal of Physical Chemistry, 1994, 98, 8140-8143.	2.9	74
25	Nanoscale Phase Segregation of Mixed Thiolates on Gold Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 10554-10559.	13.8	74
26	Photosystem I on Graphene as a Highly Transparent, Photoactive Electrode. Langmuir, 2013, 29, 4177-4180.	3.5	74
27	Quartz Crystal Microbalance Detection of Glutathione-Protected Nanoclusters Using Antibody Recognition. Analytical Chemistry, 2005, 77, 304-310.	6.5	73
28	Electrochemistry and photoelectrochemistry of photosystem I adsorbed on hydroxyl-terminated monolayers. Journal of Electroanalytical Chemistry, 2007, 599, 72-78.	3.8	70
29	Electrospray Mass Spectrometry Study of Tiopronin Monolayer-Protected Gold Nanoclusters. Journal of the American Chemical Society, 2007, 129, 1095-1104.	13.7	69
30	Effect of Surface Composition on the Adsorption of Photosystem I onto Alkanethiolate Self-Assembled Monolayers on Gold. Langmuir, 2004, 20, 4033-4038.	3.5	65
31	Multianalyte microphysiometry as a tool in metabolomics and systems biology. Journal of Electroanalytical Chemistry, 2006, 587, 333-339.	3.8	63
32	The Role of Transforming Growth Factor- β -Mediated Tumor-Stroma Interactions in Prostate Cancer Progression: An Integrative Approach. Cancer Research, 2009, 69, 7111-7120.	0.9	61
33	Photosystem I Protein Films at Electrode Surfaces for Solar Energy Conversion. Langmuir, 2014, 30, 10990-11001.	3.5	59
34	Unexpected Toxicity of Monolayer Protected Gold Clusters Eliminated by PEG-Thiol Place Exchange Reactions. Chemical Research in Toxicology, 2010, 23, 1608-1616.	3.3	58
35	A multiwalled carbon nanotube/dihydropyran composite film electrode for insulin detection in a microphysiometer chamber. Analytica Chimica Acta, 2008, 609, 44-52.	5.4	57
36	Neurovascular unit on a chip: implications for translational applications. Stem Cell Research and Therapy, 2013, 4, S18.	5.5	56

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37	Surface Fragmentation of Complexes from Thiolate Protected Gold Nanoparticles by Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 3061-3066.	6.5	53
38	Electrochemical Preparation of Photosystem I-Polyaniline Composite Films for Biohybrid Solar Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9328-9335.	8.0	53
39	Detection of Ebola virus envelope using monoclonal and polyclonal antibodies in ELISA, surface plasmon resonance and a quartz crystal microbalance immunosensor. <i>Journal of Virological Methods</i> , 2006, 137, 219-228.	2.1	52
40	Modification of the Cytosensor [®] microphysiometer to simultaneously measure extracellular acidification and oxygen consumption rates. <i>Analytica Chimica Acta</i> , 2003, 496, 93-101.	5.4	50
41	Entrapment of Photosystem I within Self-Assembled Films. <i>Langmuir</i> , 2006, 22, 8114-8120.	3.5	48
42	Tiopronin Gold Nanoparticle Precursor Forms Auophilic Ring Tetramer. <i>Inorganic Chemistry</i> , 2010, 49, 10858-10866.	4.0	46
43	Electrochemistry of tert-Butylcalix[8]arene-C60 Films Using a Scanning Electrochemical Microscope-Quartz Crystal Microbalance. <i>Analytical Chemistry</i> , 1998, 70, 4146-4151.	6.5	45
44	Metabolic Discrimination of Select List Agents by Monitoring Cellular Responses in a Multianalyte Microphysiometer. <i>Sensors</i> , 2009, 9, 2117-2133.	3.8	43
45	Photoactive Films of Photosystem I on Transparent Reduced Graphene Oxide Electrodes. <i>Langmuir</i> , 2014, 30, 8990-8994.	3.5	41
46	Photosystem I Patterning Imaged by Scanning Electrochemical Microscopy. <i>Langmuir</i> , 2005, 21, 692-698.	3.5	40
47	IL4 receptor β mediates enhanced glucose and glutamine metabolism to support breast cancer growth. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1219-1228.	4.1	38
48	Scanning Electrochemical Microscopy. 36. A Combined Scanning Electrochemical Microscope-Quartz Crystal Microbalance Instrument for Studying Thin Films. <i>Analytical Chemistry</i> , 1998, 70, 1993-1998.	6.5	37
49	A Structural Mass Spectrometry Strategy for the Relative Quantitation of Ligands on Mixed Monolayer-Protected Gold Nanoparticles. <i>Analytical Chemistry</i> , 2010, 82, 9268-9274.	6.5	37
50	Surface Adsorption and Electrochemical Reduction of 2,4,6-Trinitrotoluene on Vanadium Dioxide. <i>Analytical Chemistry</i> , 2015, 87, 334-337.	6.5	37
51	Integration of Photosystem I with Graphene Oxide for Photocurrent Enhancement. <i>Advanced Energy Materials</i> , 2014, 4, 1301953.	19.5	34
52	Neuron specific metabolic adaptations following multi-day exposures to oxygen glucose deprivation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 1095-1104.	3.8	30
53	Kinetic Model of the Photocatalytic Effect of a Photosystem I Monolayer on a Planar Electrode Surface. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3326-3334.	2.5	29
54	Mediated approaches to Photosystem I-based biophotovoltaics. <i>Current Opinion in Electrochemistry</i> , 2017, 5, 211-217.	4.8	29

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55	Effect of Redox Mediator on the Photo-Induced Current of a Photosystem I Modified Electrode. Journal of the Electrochemical Society, 2013, 160, H315-H320.	2.9	28
56	Improving the stability of photosystem I-based bioelectrodes for solar energy conversion. Current Opinion in Electrochemistry, 2020, 19, 27-34.	4.8	28
57	Continuous Free-Flow Electrophoresis of Water-Soluble Monolayer-Protected Clusters. Analytical Chemistry, 2005, 77, 4348-4353.	6.5	27
58	Photoreduction of Catalytic Platinum Particles Using Immobilized Multilayers of Photosystem I. Langmuir, 2012, 28, 7952-7956.	3.5	27
59	Photosystem I in Langmuir-Blodgett and Langmuir-Schaefer Monolayers. Langmuir, 2012, 28, 15080-15086.	3.5	26
60	Real-Time Monitoring of Cellular Bioenergetics with a Multianalyte Screen-Printed Electrode. Analytical Chemistry, 2015, 87, 7857-7864.	6.5	26
61	Hemagglutinin Linear Epitope Presentation on Monolayer-Protected Clusters Elicits Strong Antibody Binding. Biomacromolecules, 2005, 6, 3419-3424.	5.4	25
62	Scanning Electrochemical Microscopy Determination of Organic Soluble MPC Electron-Transfer Rates. Langmuir, 2006, 22, 10307-10314.	3.5	25
63	Chemical and Electrochemical Oxidation of C8-Arylamine Adducts of 2'-Deoxyguanosine. Journal of the American Chemical Society, 2007, 129, 2074-2081.	13.7	23
64	Real-time recognition of Mycobacterium tuberculosis and lipoarabinomannan using the quartz crystal microbalance. Sensors and Actuators B: Chemical, 2012, 174, 245-252.	7.8	23
65	Metabolic Impact of 4-Hydroxynonenal on Macrophage-Like RAW 264.7 Function and Activation. Chemical Research in Toxicology, 2012, 25, 1643-1651.	3.3	23
66	Organs-on-Chips as Bridges for Predictive Toxicology. Applied in Vitro Toxicology, 2016, 2, 97-102.	1.1	23
67	Imaging of voltage-gated alamethicin pores in a reconstituted bilayer lipid membrane via scanning electrochemical microscopy. Analyst, The, 2006, 131, 311-316.	3.5	22
68	Epitope Mapping of the Protective Antigen of B. Anthracis by Using Nanoclusters Presenting Conformational Peptide Epitopes. Angewandte Chemie - International Edition, 2006, 45, 594-598.	13.8	22
69	Biomimetic monolayer-protected gold nanoparticles for immunorecognition. Nanoscale, 2012, 4, 3843.	5.6	22
70	Photosystem I Multilayers within Porous Indium Tin Oxide Cathodes Enhance Mediated Electron Transfer. ChemElectroChem, 2020, 7, 596-603.	3.4	22
71	Instrumenting a Fetal Membrane on a Chip as Emerging Technology for Preterm Birth Research. Current Pharmaceutical Design, 2018, 23, 6115-6124.	1.9	22
72	Nanoparticle-based biologic mimetics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 47-59.	6.1	21

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73	The Effects of Cholera Toxin on Cellular Energy Metabolism. <i>Toxins</i> , 2010, 2, 632-648.	3.4	21
74	An Electrochemical Reaction-Diffusion Model of the Photocatalytic Effect of Photosystem I Multilayer Films. <i>Journal of Physical Chemistry B</i> , 2018, 122, 117-125.	2.6	21
75	Electrochemical Impedance Spectroscopy of Synthetic Pyrite Doped with As, Co, and Ni. <i>Journal of the Electrochemical Society</i> , 2008, 155, P61.	2.9	20
76	Construction of a Semiconductor/Biological Interface for Solar Energy Conversion: p-Doped Silicon/Photosystem I/Zinc Oxide. <i>Langmuir</i> , 2015, 31, 10002-10007.	3.5	20
77	Polyviologen as Electron Transport Material in Photosystem I-Based Biophotovoltaic Cells. <i>Langmuir</i> , 2018, 34, 15658-15664.	3.5	20
78	Reversing the Thermodynamics of Galvanic Replacement Reactions by Decreasing the Size of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020, 142, 19268-19277.	13.7	20
79	Metabolic Multianalyte Microphysiometry Reveals Extracellular Acidosis is an Essential Mediator of Neuronal Preconditioning. <i>ACS Chemical Neuroscience</i> , 2012, 3, 510-518.	3.5	18
80	Room-Temperature Reactions for Self-Cleaning Molecular Nanosensors. <i>Nano Letters</i> , 2013, 13, 798-802.	9.1	18
81	Modeling the measurements of cellular fluxes in microbioreactor devices using thin enzyme electrodes. <i>Journal of Mathematical Chemistry</i> , 2011, 49, 251-275.	1.5	17
82	Multifunctional nanoparticles as simulants for a gravimetric immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1021-1029.	3.7	15
83	A printed superoxide dismutase coated electrode for the study of macrophage oxidative burst. <i>Biosensors and Bioelectronics</i> , 2012, 33, 128-133.	10.1	15
84	Multichamber multipotentiostat system for cellular microphysiometry. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 536-543.	7.8	15
85	Effect of Cross-linking on the Performance and Stability of Photocatalytic Photosystem I Films. <i>Electrochimica Acta</i> , 2016, 222, 926-932.	5.2	15
86	Photosystem I Multilayer Films for Photovoltage Enhancement in Natural Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 301-305.	5.1	15
87	Output analysis of materials inkjet printer. <i>Applied Physics Letters</i> , 2007, 91, 113114.	3.3	13
88	Photosystem I Enhances the Efficiency of a Natural, Gel-Based Dye-Sensitized Solar Cell. <i>ACS Applied Bio Materials</i> , 2020, 3, 4465-4473.	4.6	13
89	Layer-by-Layer Assembly of Photosystem I and PEDOT:PSS Biohybrid Films for Photocurrent Generation. <i>Langmuir</i> , 2021, 37, 10481-10489.	3.5	13
90	Ionization-Enhanced Decomposition of 2,4,6-Trinitrotoluene (TNT) Molecules. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8142-8146.	2.5	12

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91	Multianalyte Microphysiometry Reveals Changes in Cellular Bioenergetics Upon Exposure to Fluorescent Dyes. <i>Analytical Chemistry</i> , 2013, 85, 11677-11680.	6.5	12
92	Fibrotic Encapsulation Is the Dominant Source of Continuous Glucose Monitor Delays. <i>Diabetes</i> , 2019, 68, 1892-1901.	0.6	12
93	Real-Time Cell Dynamics With a Multianalyte Physiometer. , 2005, 303, 209-223.		11
94	Application of multianalyte microphysiometry to characterize macrophage metabolic responses to oxidized LDL and effects of an apoA-1 mimetic. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 181-185.	2.1	10
95	Multianalyte Microphysiometry of Macrophage Responses to Phorbol Myristate Acetate, Lipopolysaccharide, and Lipoarabinomannan. <i>Electroanalysis</i> , 2013, 25, 1706-1712.	2.9	10
96	Analysis of a Nitroreductase-Based Hypoxia Sensor in Primary Neuronal Cultures. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1188-1191.	3.5	10
97	Electrochemical Microphysiometry Detects Cellular Glutamate Uptake. <i>Journal of the Electrochemical Society</i> , 2018, 165, G3120-G3124.	2.9	10
98	Optical and electrochemical tuning of hydrothermally synthesized nitrogen-doped carbon dots. <i>Nanoscale Advances</i> , 2020, 2, 3375-3383.	4.6	8
99	Chlorpyrifos Disrupts Acetylcholine Metabolism Across Model Blood-Brain Barrier. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 622175.	4.1	7
100	A bistable, multiport valve enables microformulators creating microclinical analyzers that reveal aberrant glutamate metabolism in astrocytes derived from a tuberous sclerosis patient. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 129972.	7.8	7
101	Scanning Electrochemical Microscopy of Individual Pancreatic Islets. <i>Journal of the Electrochemical Society</i> , 2016, 163, H3077-H3082.	2.9	6
102	Elucidation of the Role of Lectin-Like oxLDL Receptor-1 in the Metabolic Responses of Macrophages to Human oxLDL. <i>Journal of Lipids</i> , 2017, 2017, 1-9.	4.8	6
103	Design and synthesis of an antigenic mimic of the Ebola glycoprotein. <i>Journal of Materials Research</i> , 2008, 23, 3161-3168.	2.6	5
104	In Vivo Testing for Gold Nanoparticle Toxicity. <i>Methods in Molecular Biology</i> , 2013, 1026, 175-186.	0.9	5
105	Prostaglandin E ₂ Regulation of Macrophage Innate Immunity. <i>Chemical Research in Toxicology</i> , 2016, 29, 19-25.	3.3	5
106	Mercury-Free Analysis of Lead in Drinking Water by Anodic Stripping Square Wave Voltammetry. <i>Journal of Chemical Education</i> , 2007, 84, 312.	2.3	4
107	<i>Pueraria lobata</i> (Kudzu) Photosystem I Improves the Photoelectrochemical Performance of Silicon. <i>Industrial Biotechnology</i> , 2013, 9, 37-41.	0.8	4
108	Effect of Ligand Charge on Electron-Transfer Rates of Water-Soluble Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11296-11300.	3.1	4

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109	Preface“Semiconductor Electrochemistry and Photoelectrochemistry in Honor of Krishnan Rajeshwar. Journal of the Electrochemical Society, 2019, 166, Y5-Y6.	2.9	4
110	A Low-Interference, High-Resolution Multianalyte Electrochemical Biosensor. Analytical Methods, 2020, 12, 3873-3882.	2.7	4
111	Carbon-supported AuPt and AuPd bimetallic nanocomposites as formic acid electrooxidation catalysts. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2903-2909.	1.8	3
112	Multianalyte Physiological Microanalytical Devices. Annual Review of Analytical Chemistry, 2017, 10, 93-111.	5.4	3
113	Small gold nanoparticles presenting linear and looped Cilengitide analogues as radiosensitizers of cells expressing $\alpha\text{L}\beta\text{2}\beta\text{3}$ integrin. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	3
114	Electrochemical Monitoring of Cellular Metabolism. , 2014, , 522-528.		2
115	Communication“Microfluidic Electrochemical Acetylcholine Detection in the Presence of Chlorpyrifos. Journal of the Electrochemical Society, 2019, 166, G178-G181.	2.9	2
116	Photosystem I Multilayers within Porous Indium Tin Oxide Cathodes Enhance Mediated Electron Transfer. ChemElectroChem, 2020, 7, 585-585.	3.4	1
117	Electrochemical Detection of 2,4,6-Trinitrotoluene at Colloidal Gold Nanoparticle Film Assemblies. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 147-160.	0.5	1
118	NanoLiterBioReactor: Monitoring of Long-Term Mammalian Cell Physiology at Nanofabricated Scale. Materials Research Society Symposia Proceedings, 2004, 823, W9.5.1/O5.5.1.	0.1	0
119	NanoLiterBioReactor: Monitoring of Long-Term Mammalian Cell Physiology at Nanofabricated Scale. Materials Research Society Symposia Proceedings, 2004, 820, 126.	0.1	0
120	(Invited) Eight Channel Microphysiometry Using a Lab on a Chip Microclinical Analyzer. ECS Meeting Abstracts, 2021, MA2021-01, 1388-1388.	0.0	0
121	Photosystem I-Modified Multi-Walled Carbon Nanotube Anodes for Enhanced Solar Energy Conversion. ECS Meeting Abstracts, 2019, , .	0.0	0
122	High-Resolution Multianalyte Biosensor Array for Analysis of Model Organ Systems. ECS Meeting Abstracts, 2019, , .	0.0	0
123	Graduate Electrochemistry Course Projects. ECS Meeting Abstracts, 2019, , .	0.0	0
124	Multilayer Photosystem I Films within Porous Indium Tin Oxide Cathodes for Enhanced Photocurrent Generation. ECS Meeting Abstracts, 2019, , .	0.0	0
125	Synthesis and Characterization of Osmium Redox Polymer Mediators for Type II Biosensors. ECS Meeting Abstracts, 2019, , .	0.0	0
126	(Invited) Eight Channel Microphysiometry Using a Lab on a Chip Microclinical Analyzer. ECS Meeting Abstracts, 2020, MA2020-01, 1992-1992.	0.0	0

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127	Electron Transfer at Photosystem I - Electrode Interfaces: Porous & Translucent Indium Tin Oxide Cathodes. ECS Meeting Abstracts, 2020, MA2020-01, 2526-2526.	0.0	0
128	Organotypic Neurovascular Unit and Electrochemical Platform for Predictive Toxicology. ECS Meeting Abstracts, 2019, MA2019-02, 2423-2423.	0.0	0
129	Effects of Chlorpyrifos Exposure on Acetylcholine Metabolism across a Model Blood-Brain Barrier. ECS Meeting Abstracts, 2019, MA2019-02, 2426-2426.	0.0	0
130	Trace Oxygen Affects Osmium Redox Polymer Synthesis for Wired Enzymatic Biosensors. Journal of the Electrochemical Society, 2022, 169, 016506.	2.9	0
131	(Digital Presentation) Simultaneous and Real-Time Electrochemical Detection of Multiple Biomarkers in a Microfluidic Chip. ECS Meeting Abstracts, 2022, MA2022-01, 2236-2236.	0.0	0