

Eric McLamore

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3191370/publications.pdf>

Version: 2024-02-01

113
papers

3,044
citations

147801

31
h-index

175258

52
g-index

118
all docs

118
docs citations

118
times ranked

4195
citing authors

#	ARTICLE	IF	CITATIONS
1	Context-Aware Diagnostic Specificity (CADS). <i>Biosensors</i> , 2022, 12, 101.	4.7	1
2	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing. <i>Mikrochimica Acta</i> , 2022, 189, 122.	5.0	8
3	Bioanalytical approaches for the detection, characterization, and risk assessment of micro/nanoplastics in agriculture and food systems. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4591-4612.	3.7	6
4	CML8 and GAD4 function in (Z)-hexenol-mediated defense by regulating β -aminobutyric acid accumulation in <i>Arabidopsis</i> . <i>Plant Physiology and Biochemistry</i> , 2022, 186, 135-144.	5.8	8
5	Emerging mercury mitigation solutions for artisanal small-scale gold mining communities evaluated through a multicriteria decision analysis approach. <i>Environment Systems and Decisions</i> , 2021, 41, 413-424.	3.4	4
6	FEAST of biosensors: Food, environmental and agricultural sensing technologies (FEAST) in North America. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113011.	10.1	19
7	Prevalence of <i>Escherichia coli</i> and Antibiotic-Resistant Bacteria During Fresh Produce Production (Romaine Lettuce) Using Municipal Wastewater Effluents. <i>Frontiers in Microbiology</i> , 2021, 12, 660047.	3.5	7
8	Next Generation of AMR Network. <i>Encyclopedia</i> , 2021, 1, 871-892.	4.5	4
9	Modeling exposure risk and prevention of mercury in drinking water for artisanal-small scale gold mining communities. <i>Human and Ecological Risk Assessment (HERA)</i> , 2021, 27, 1492-1508.	3.4	7
10	Sense-Analyze-Respond-Actuate (SARA) Paradigm: Proof of Concept System Spanning Nanoscale and Macroscale Actuation for Detection of <i>Escherichia coli</i> in Aqueous Media. <i>Actuators</i> , 2021, 10, 2.	2.3	9
11	One-Step Fabrication of Stimuli-Responsive Chitosan-Platinum Brushes for <i>Listeria monocytogenes</i> Detection. <i>Biosensors</i> , 2021, 11, 511.	4.7	8
12	Advances in Translational Nanotechnology: Challenges and Opportunities. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4881.	2.5	6
13	Accessing Legacy Phosphorus in Soils. <i>Soil Systems</i> , 2020, 4, 74.	2.6	35
14	Planar Interdigitated Aptasensor for Flow-Through Detection of <i>Listeria</i> spp. in Hydroponic Lettuce Growth Media. <i>Sensors</i> , 2020, 20, 5773.	3.8	30
15	Digital Proxy of a Bio-Reactor (DIYBOT) combines sensor data and data analytics to improve greywater treatment and wastewater management systems. <i>Scientific Reports</i> , 2020, 10, 8015.	3.3	7
16	Sensor-as-a-Service: Convergence of Sensor Analytic Point Solutions (SNAPS) and Pay-A-Penny-Per-Use (PAPPU) Paradigm as a Catalyst for Democratization of Healthcare in Underserved Communities. <i>Diagnostics</i> , 2020, 10, 22.	2.6	11
17	A High-Throughput Microfluidic Magnetic Separation (μ FMS) Platform for Water Quality Monitoring. <i>Micromachines</i> , 2020, 11, 16.	2.9	18
18	Laser-Induced Graphene Electrochemical Immunosensors for Rapid and Label-Free Monitoring of <i>Salmonella enterica</i> in Chicken Broth. <i>ACS Sensors</i> , 2020, 5, 1900-1911.	7.8	148

#	ARTICLE	IF	CITATIONS
19	Rapid isolation of <i>Escherichia coli</i> from water samples using magnetic microdiscs. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 58-66.	7.8	13
20	ABE-Stat, a Fully Open-Source and Versatile Wireless Potentiostat Project Including Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2019, 166, B3056-B3065.	2.9	49
21	SNAPS: Sensor Analytics Point Solutions for Detection and Decision Support Systems. <i>Sensors</i> , 2019, 19, 4935.	3.8	17
22	Identification of a maize (<i>Zea mays</i> L.) inbred line adapted to low-P conditions via analyses of phosphorus utilization, root acidification, and calcium influx. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 275-286.	1.9	4
23	Actuation of chitosan-aptamer nanobrush borders for pathogen sensing. <i>Analyst, The</i> , 2018, 143, 1650-1661.	3.5	37
24	Post hoc support vector machine learning for impedimetric biosensors based on weak protein-ligand interactions. <i>Analyst, The</i> , 2018, 143, 2066-2075.	3.5	33
25	Cryoconcentration of flavonoid extract for enhanced biophotovoltaics and pH sensitive thin films. <i>Biotechnology Progress</i> , 2018, 34, 206-217.	2.6	6
26	Flexible Laser-Induced Graphene for Nitrogen Sensing in Soil. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39124-39133.	8.0	117
27	Mercury Pollution and Artisanal Gold Mining in Alto Cauca, Colombia: Woman's Perception of Health and Environmental Impacts. <i>Journal of Environment and Development</i> , 2018, 27, 415-444.	3.2	29
28	Laser Scribed Graphene Biosensor for Detection of Biogenic Amines in Food Samples Using Locally Sourced Materials. <i>Biosensors</i> , 2018, 8, 42.	4.7	85
29	Graphene-Anchored Cuprous Oxide Nanoparticles from Waste Electric Cables for Electrochemical Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12176-12186.	6.7	36
30	Rapid and Label-Free Detection of Interferon Gamma via an Electrochemical Aptasensor Comprising a Ternary Surface Monolayer on a Gold Interdigitated Electrode Array. <i>ACS Sensors</i> , 2017, 2, 210-217.	7.8	71
31	Green synthesis with incorporated hydrothermal approaches for silver nanoparticles formation and enhanced antimicrobial activity against bacterial and fungal pathogens. <i>Journal of Molecular Liquids</i> , 2017, 238, 263-269.	4.9	77
32	Insect Herbivory of Leaves Affects the Auxin Flux Along Root Apices in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Growth Regulation</i> , 2017, 36, 846-854.	5.1	8
33	Cleanability of milk deposits on inner stainless steel tubing surfaces prepared by magnetic abrasive finishing. <i>Engineering in Agriculture, Environment and Food</i> , 2017, 10, 63-68.	0.5	8
34	Microprofiling real time nitric oxide flux for field studies using a stratified nanohybrid carbon-metal electrode. <i>Analytical Methods</i> , 2017, 9, 6061-6072.	2.7	4
35	Emerging Biorecognition and Transduction Schemes for Rapid Detection of Pathogenic Bacteria in Food. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2017, 16, 1188-1205.	11.7	56
36	Measuring Spatial and Temporal Oxygen Flux Near Plant Tissues Using a Self-Referencing Optrode. <i>Methods in Molecular Biology</i> , 2017, 1670, 267-281.	0.9	2

#	ARTICLE	IF	CITATIONS
37	DNA aptamer functionalized gold nanostructures for molecular recognition and photothermal inactivation of methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 16-22.	5.0	71
38	Food Processing and Waste Within the Nexus Framework. <i>Current Sustainable/Renewable Energy Reports</i> , 2017, 4, 99-108.	2.6	9
39	Synthesis and applications of cellulose nanohybrid materials. , 2017, , 289-320.		4
40	Leaf Extract from <i>Lithocarpus polystachyus</i> Rehd. Promote Glycogen Synthesis in T2DM Mice. <i>PLoS ONE</i> , 2016, 11, e0166557.	2.5	43
41	Investigation of magnetic microdiscs for bacterial pathogen detection. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
42	Bio-inspired patterned networks (BIPS) for development of wearable/disposable biosensors. , 2016, , .		1
43	Body mass scaling of passive oxygen diffusion in endotherms and ectotherms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5340-5345.	7.1	44
44	pulSED: pulsed sonoelectrodeposition of fractal nanoplatinum for enhancing amperometric biosensor performance. <i>Analyst</i> , The, 2016, 141, 3367-3378.	3.5	16
45	A paper based graphene-nanocauliflower hybrid composite for point of care biosensing. <i>Biosensors and Bioelectronics</i> , 2016, 85, 479-487.	10.1	91
46	Biomimetic Fractal Nanometals As A Transducer Layer in Electrochemical Biosensing. , 2016, , 35-67.		4
47	Effect of platinum nanoparticle deposition parameters on hydrogen peroxide transduction for applications in wearable electrochemical glucose biosensors. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
48	A paper based graphene-nanocauliflower hybrid composite for point of care biosensing. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
49	Impedance biosensor for the rapid detection of <i>Listeria</i> spp. based on aptamer functionalized Pt-interdigitated microelectrodes array. <i>Proceedings of SPIE</i> , 2016, , .	0.8	8
50	MeJA Affects Root Growth by Modulation of Transmembrane Auxin Flux in the Transition Zone. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 256-265.	5.1	18
51	The role of plasma membrane H ⁺ -ATPase in jasmonate-induced ion fluxes and stomatal closure in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2015, 83, 638-649.	5.7	60
52	Altered glucose metabolism in Harvey- <i>ras</i> transformed MCF10A cells. <i>Molecular Carcinogenesis</i> , 2015, 54, 111-120.	2.7	23
53	<i>Salmonella enterica</i> biofilm-mediated dispersal by nitric oxide donors in association with cellulose nanocrystal hydrogels. <i>AMB Express</i> , 2015, 5, 28.	3.0	13
54	Rapid detection of <i>Listeria</i> spp. using an internalin A aptasensor based on carbon-metal nanohybrid structures. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3

#	ARTICLE	IF	CITATIONS
55	A self-referencing biosensor for real-time monitoring of physiological ATP transport in plant systems. <i>Biosensors and Bioelectronics</i> , 2015, 74, 37-44.	10.1	28
56	Hybrid Metallic Nanoparticles: Enhanced Bioanalysis and Biosensing via Carbon Nanotubes, Graphene, and Organic Conjugation. , 2015, , 137-166.		5
57	A comparative study of graphene-hydrogel hybrid bionanocomposites for biosensing. <i>Analyst, The</i> , 2015, 140, 1466-1476.	3.5	53
58	Predictive Modeling of Oxygen Transmission Through Micro-perforations for Packaging Applications. <i>Journal of Applied Packaging Research</i> , 2015, 7, 17-31.	0.5	3
59	Glutathione-Gated Potassium Efflux as a Mechanism of Active Biofilm Detachment. <i>Water Environment Research</i> , 2014, 86, 462-469.	2.7	9
60	Modelling Gas Transmission in Cylindrical Dynamic Accumulation Oxygen Transmission Rate Chambers to Explore Implications of Oxygen Sensor Location Relative to Samples. <i>Packaging Technology and Science</i> , 2014, 27, 651-662.	2.8	1
61	Xanthine oxidase biosensor for monitoring meat spoilage. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
62	Development and validation of an open source O ₂ -sensitive gel for physiological profiling of soil microbial communities. <i>Journal of Microbiological Methods</i> , 2014, 96, 62-67.	1.6	6
63	Silver nanoparticle-specific mitotoxicity in <i>Daphnia magna</i> . <i>Nanotoxicology</i> , 2014, 8, 833-842.	3.0	51
64	A nanoceria-platinum-graphene nanocomposite for electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2014, 58, 179-185.	10.1	49
65	Simple approach for large-scale production of reduced graphene oxide films. <i>Chemical Engineering Journal</i> , 2014, 243, 340-346.	12.7	12
66	Nanomaterial-mediated Biosensors for Monitoring Glucose. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 403-411.	2.2	85
67	A comparative study of carbon-platinum hybrid nanostructure architecture for amperometric biosensing. <i>Analyst, The</i> , 2014, 139, 660-667.	3.5	36
68	Comparative study of non-invasive methods for assessing <i>Daphnia magna</i> embryo toxicity. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10803-10814.	5.3	4
69	A multiplexing fiber optic microsensors system for monitoring spatially resolved oxygen patterns. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 71-79.	7.8	4
70	Emerging technologies for non-invasive quantification of physiological oxygen transport in plants. <i>Planta</i> , 2013, 238, 599-614.	3.2	8
71	A simple method for quantifying biomass cell and polymer distribution in biofilms. <i>Journal of Microbiological Methods</i> , 2013, 94, 367-374.	1.6	20
72	1,25-Dihydroxyvitamin D regulation of glucose metabolism in Harvey-ras transformed MCF10A human breast epithelial cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 138, 81-89.	2.5	30

#	ARTICLE	IF	CITATIONS
73	Lignin and silicate based hydrogels for biosensor applications. Proceedings of SPIE, 2013, , .	0.8	5
74	Nanomaterial based self-referencing microbiosensors for cell and tissue physiology research. Biosensors and Bioelectronics, 2013, 40, 127-134.	10.1	16
75	Shear-induced detachment of biofilms from hollow fiber silicone membranes. Biotechnology and Bioengineering, 2013, 110, 525-534.	3.3	22
76	A real-time, non-invasive, micro-optrode technique for detecting seed viability by using oxygen influx. Scientific Reports, 2013, 3, 3057.	3.3	22
77	A multiplexing fiber optic microsensors system for monitoring oxygen concentration in plants. Proceedings of SPIE, 2013, , .	0.8	1
78	Non-invasive microsensors for studying cell/tissue physiology. Proceedings of SPIE, 2013, , .	0.8	1
79	MECHANICAL STRETCH INDUCED CALCIUM EFFLUX FROM BONE MATRIX STIMULATES OSTEOBLASTS. Journal of Biomechanics, 2012, 45, S249.	2.1	0
80	Mechanical Stretch Induced Calcium Efflux from Bone Matrix Stimulates Osteoblasts. Bone, 2012, 50, 581-591.	2.9	37
81	A Systems View Towards More Sustainable Irrigation Design. Irrigation & Drainage Systems Engineering, 2012, 01, .	0.1	0
82	A comparative study of enzyme immobilization strategies for multi-walled carbon nanotube glucose biosensors. Nanotechnology, 2011, 22, 355502.	2.6	75
83	Electrochemical glutamate biosensing with nanocube and nanosphere augmented single-walled carbon nanotube networks: a comparative study. Journal of Materials Chemistry, 2011, 21, 11224.	6.7	58
84	Non-invasive tools for measuring metabolism and biophysical analyte transport: self-referencing physiological sensing. Chemical Society Reviews, 2011, 40, 5308.	38.1	45
85	Self-referencing luminescent optrodes for non-invasive, real time measurement of extracellular flux. Proceedings of SPIE, 2011, , .	0.8	0
86	Toxicological studies on silver nanoparticles: challenges and opportunities in assessment, monitoring and imaging. Nanomedicine, 2011, 6, 879-898.	3.3	386
87	Cell-mediated deposition of porous silica on bacterial biofilms. Biotechnology and Bioengineering, 2011, 108, 2249-2260.	3.3	18
88	A self referencing platinum nanoparticle decorated enzyme-based microbiosensor for real time measurement of physiological glucose transport. Biosensors and Bioelectronics, 2011, 26, 2237-2245.	10.1	79
89	Oscillatory glucose flux in INS 1 pancreatic Î² cells: A self-referencing microbiosensor study. Analytical Biochemistry, 2011, 411, 185-193.	2.4	29
90	A self-referencing microelectrode for real time measurements of silver flux. Sensors and Actuators B: Chemical, 2011, 153, 445-452.	7.8	6

#	ARTICLE	IF	CITATIONS
91	A difference imaging technique for monitoring real-time changes in morphology within the cell, tissue, and organism spatial domain. , 2010, , .		3
92	Self-referencing optrodes for measuring spatially resolved, real-time metabolic oxygen flux in plant systems. <i>Planta</i> , 2010, 232, 1087-1099.	3.2	37
93	A self-referencing glutamate biosensor for measuring real time neuronal glutamate flux. <i>Journal of Neuroscience Methods</i> , 2010, 189, 14-22.	2.5	62
94	Non-invasive quantification of endogenous root auxin transport using an integrated flux microsensor technique. <i>Plant Journal</i> , 2010, 63, 1004-1016.	5.7	112
95	Membrane-Aerated Biofilm Proton and Oxygen Flux during Chemical Toxin Exposure. <i>Environmental Science & Technology</i> , 2010, 44, 7050-7057.	10.0	34
96	Monitoring the health of bacteria critical to wastewater treatment facilities. <i>Membrane Technology</i> , 2009, 2009, 10-11.	0.1	0
97	Non-invasive self-referencing electrochemical sensors for quantifying real-time biofilm analyte flux. <i>Biotechnology and Bioengineering</i> , 2009, 102, 791-799.	3.3	42
98	Microsensor technology for measuring H ⁺ flux in buffered media. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 383-387.	7.8	20
99	Nitrification-Denitrification Biological Treatment of a High-Nitrogen Waste Stream for Water Reuse Applications. <i>Water Environment Research</i> , 2009, 81, 423-431.	2.7	18
100	Oxygen flux as an indicator of physiological stress in aquatic organisms: a real-time biomonitoring system of water quality. , 2009, , .		0
101	Hydrodynamic Characteristics in Biotrickling Filters as Affected by Packing Material and Hydraulic Loading Rate. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 346-352.	1.4	26
102	Model Development for Biotrickling Filter Treatment of Graywater Simulant and Waste Gas. I. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 813-825.	1.4	13
103	Simultaneous Treatment of Graywater and Waste Gas in a Biological Trickling Filter. <i>Water Environment Research</i> , 2008, 80, 2096-2103.	2.7	7
104	Dynamics of Human Urine Storage in the Early Planetary Base Wastestream. <i>Habitation</i> , 2007, 11, 139-147.	0.2	1
105	Characterization of Effluent from Biological Trickling Filters Treating Graywater in Advanced Life Support Systems. <i>Habitation</i> , 2007, 11, 95-104.	0.2	6
106	Abiotic transport in a membrane aerated bioreactor. <i>Journal of Membrane Science</i> , 2007, 298, 110-116.	8.2	25
107	Simultaneous Biodegradation of a Two-Phase Fluid: Discolored Biofilm Issues. , 2006, , .		0
108	Abiotic Ammonia Mass Transfer in a Biotrickling Filter. , 2006, , 1.		1

#	ARTICLE	IF	CITATIONS
109	Evaluation of Biological Trickling Filter Performance for Graywater Treatment in ALS Systems. , 2005, , .		3
110	Development of a Nitrifying Bioreactor for the Treatment of Wastewater in Long-Term Space Applications. , 2004, , 376.		4
111	Incorporation of a Membrane-Aerated Bioreactor in a Water Recovery System. , 2004, , .		10
112	Non-invasive measurement of real-time oxygen flux in plant systems with a self-referencing optrode. Protocol Exchange, 0, , .	0.3	6
113	Development of a Biosensor Based on Angiotensinâ€Converting Enzyme II for Severe Acute Respiratory Syndrome Coronavirus 2 Detection in Human Saliva. Frontiers in Sensors, 0, 3, .	3.3	5