

Jeffrey T Labelle

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

664
citations

623188

14
h-index

580395

25
g-index

43
all docs

43
docs citations

43
times ranked

886
citing authors

#	ARTICLE	IF	CITATIONS
1	Faradaic electrochemical impedance spectroscopy for enhanced analyte detection in diagnostics. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112949.	5.3	66
2	Designer fungus FAD glucose dehydrogenase capable of direct electron transfer. <i>Biosensors and Bioelectronics</i> , 2019, 123, 114-123.	5.3	39
3	BODDEE BUDDEE: Evaluation of Different Foams and Thermoplastics to Develop a Biofidelic Manikin for Cardiopulmonary Resuscitation. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 101-108.	0.5	0
4	Staggered Nitinol Wire Actuator Array for High Linear Displacement and Force-to-Mass Ratio. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 121-129.	0.5	4
5	Development Toward a Triple-Marker Biosensor for Diagnosing Cardiovascular Disease. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 169-178.	0.5	9
6	Proof of Concept for a Universal Identification System for Medical Devices. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 153-158.	0.5	0
7	Toward the Development of a Wearable Optical Respiratory Sensor for Real-Time Use. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 131-139.	0.5	1
8	Toward a Label-Free Electrochemical Impedance Immunosensor Design for Quantifying Cortisol in Tears. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 207-215.	0.5	17
9	An Experimental Platform for Characterizing Cancer Biomarkers with Capabilities in Noninvasive and Continuous Screening. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 217-234.	0.5	3
10	Project honeybee: Clinical applications for wearable biosensors. <i>Biomedical Microdevices</i> , 2019, 21, 37.	1.4	2
11	Development of Electrochemical Methods to Enzymatically Detect Lactate and Glucose Using Imaginary Impedance for Enhanced Management of Glycemic Compromised Patients. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 179-191.	0.5	3
12	A Comparison of Force Sensing for Applications in Prosthetic Haptic Feedback. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 109-119.	0.5	1
13	Electrochemical Detection of Fertility Hormones. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 235-247.	0.5	7
14	Multi-Biomarker Detection Following Traumatic Brain Injury. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 193-206.	0.5	9
15	Third generation impedimetric sensor employing direct electron transfer type glucose dehydrogenase. <i>Biosensors and Bioelectronics</i> , 2019, 129, 189-197.	5.3	36
16	Feasibility of Commercially Marketed Health Devices for Potential Clinical Application. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 159-167.	0.5	1
17	Non-Contact Type Pulse Oximeter. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 141-151.	0.5	0
18	A Disposable Tear Glucose Biosensor—Part 5: Improvements in Reagents and Tear Sampling Component. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 842-846.	1.3	2

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19	The electrochemical behavior of a FAD dependent glucose dehydrogenase with direct electron transfer subunit by immobilization on self-assembled monolayers. <i>Bioelectrochemistry</i> , 2018, 121, 1-6.	2.4	39
20	Minimizing the effects of oxygen interference on l-lactate sensors by a single amino acid mutation in <i>Aerococcus viridans</i> l-lactate oxidase. <i>Biosensors and Bioelectronics</i> , 2018, 103, 163-170.	5.3	29
21	Direct Measurement of a Biomarker's Native Optimal Frequency with Physical Adsorption Based Immobilization. <i>ACS Sensors</i> , 2018, 3, 823-831.	4.0	7
22	Toward the Development of a Glucose Dehydrogenase-Based Saliva Glucose Sensor Without the Need for Sample Preparation. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 83-89.	1.3	15
23	The Development of a Glucose Dehydrogenase 3D-Printed Glucose Sensor: A Proof-of-Concept Study. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 176-182.	1.3	26
24	Facilitating Earlier Diagnosis of Cardiovascular Disease through Point-of-Care Biosensors: A Review. <i>Critical Reviews in Biomedical Engineering</i> , 2018, 46, 53-82.	0.5	9
25	Development toward a novel integrated tear lactate sensor using Schirmer test strip and engineered lactate oxidase. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 525-529.	4.0	20
26	Additive Manufacturing Fused Filament Fabrication Three-Dimensional Printed Pressure Sensor for Prosthetics with Low Elastic Modulus and High Filler Ratio Filament Composites. <i>3D Printing and Additive Manufacturing</i> , 2017, 4, 30-40.	1.4	12
27	Enhancing Glycemic Control via Detection of Insulin Using Electrochemical Impedance Spectroscopy. <i>Journal of Diabetes Science and Technology</i> , 2017, 11, 930-935.	1.3	16
28	Towards the Future Development of an Electrochemical Continuous Multimarker Biosensor for Enhanced Glycemic Management. <i>Journal of Diabetes Science and Technology</i> , 2017, 11, 1053-1054.	1.3	0
29	Novel fungal FAD glucose dehydrogenase derived from <i>Aspergillus niger</i> for glucose enzyme sensor strips. <i>Biosensors and Bioelectronics</i> , 2017, 87, 305-311.	5.3	46
30	Additive Manufactured Biomimicking Actuator with Shape Memory Polymer Composite for Prosthetic Actuators. <i>3D Printing and Additive Manufacturing</i> , 2017, 4, 201-213.	1.4	8
31	Enzymatic Detection of Traumatic Brain Injury Related Biomarkers. <i>Methods in Molecular Biology</i> , 2017, 1572, 89-112.	0.4	2
32	Advanced Manufactured Fused Filament Fabrication 3D Printed Osseointegrated Prosthesis for a Transhumeral Amputation Using Taulman 680 FDA. <i>3D Printing and Additive Manufacturing</i> , 2016, 3, 166-174.	1.4	8
33	Self-monitoring of tear glucose: the development of a tear based glucose sensor as an alternative to self-monitoring of blood glucose. <i>Chemical Communications</i> , 2016, 52, 9197-9204.	2.2	70
34	Development of electrochemical methods to enzymatically detect traumatic brain injury biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 67, 752-756.	5.3	13
35	A Disposable Tear Glucose Biosensor—Part 4. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 109-116.	1.3	13
36	Detection of 1,5-Anhydroglucitol by Electrochemical Impedance Spectroscopy. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 350-355.	1.3	15

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37	Method for fabrication and verification of conjugated nanoparticle-antibody tuning elements for multiplexed electrochemical biosensors. <i>Methods</i> , 2013, 61, 39-51.	1.9	13
38	Mesoporous carbon amperometric glucose sensors using inexpensive, commercial methacrylate-based binders. <i>Analytica Chimica Acta</i> , 2012, 738, 27-34.	2.6	20
39	The promise of electrochemical impedance spectroscopy as novel technology for the management of patients with diabetes mellitus. <i>Analyst, The</i> , 2012, 137, 4179.	1.7	35
40	Development of a novel single sensor multiplexed marker assay. <i>Analyst, The</i> , 2011, 136, 1496.	1.7	32
41	A Disposable Tear Glucose Biosensor--Part 2: System Integration and Model Validation. <i>Journal of Diabetes Science and Technology</i> , 2010, 4, 307-311.	1.3	11
42	A label-free, rapid multimarker protein impedance-based immunosensor. , 2009, , .		5