

Juliane R Sempionatto

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,085
citations

186265

28
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

3492
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Monitoring of Sweat and Interstitial Fluid Using a Single Wearable Biosensor Platform. <i>Advanced Science</i> , 2018, 5, 1800880.	11.2	371
2	Epidermal Microfluidic Electrochemical Detection System: Enhanced Sweat Sampling and Metabolite Detection. <i>ACS Sensors</i> , 2017, 2, 1860-1868.	7.8	325
3	An epidermal patch for the simultaneous monitoring of haemodynamic and metabolic biomarkers. <i>Nature Biomedical Engineering</i> , 2021, 5, 737-748.	22.5	309
4	Stretchable biofuel cells as wearable textile-based self-powered sensors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18342-18353.	10.3	258
5	Wearable Electrochemical Sensors for the Monitoring and Screening of Drugs. <i>ACS Sensors</i> , 2020, 5, 2679-2700.	7.8	227
6	Wearable Bioelectronics: Enzyme-Based Body-Worn Electronic Devices. <i>Accounts of Chemical Research</i> , 2018, 51, 2820-2828.	15.6	214
7	Eyeglasses based wireless electrolyte and metabolite sensor platform. <i>Lab on A Chip</i> , 2017, 17, 1834-1842.	6.0	211
8	Eyeglasses-based tear biosensing system: Non-invasive detection of alcohol, vitamins and glucose. <i>Biosensors and Bioelectronics</i> , 2019, 137, 161-170.	10.1	180
9	Wearable electrochemical biosensors in North America. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112750.	10.1	167
10	Epidermal Enzymatic Biosensors for Sweat Vitamin C: Toward Personalized Nutrition. <i>ACS Sensors</i> , 2020, 5, 1804-1813.	7.8	163
11	Wearable Chemical Sensors: Emerging Systems for On-Body Analytical Chemistry. <i>Analytical Chemistry</i> , 2020, 92, 378-396.	6.5	136
12	On-Body Bioelectronics: Wearable Biofuel Cells for Bioenergy Harvesting and Self-Powered Biosensing. <i>Advanced Functional Materials</i> , 2020, 30, 1906243.	14.9	134
13	Touch-Based Stressless Cortisol Sensing. <i>Advanced Materials</i> , 2021, 33, e2008465.	21.0	127
14	Pacifier Biosensor: Toward Noninvasive Saliva Biomarker Monitoring. <i>Analytical Chemistry</i> , 2019, 91, 13883-13891.	6.5	122
15	Wearable and Mobile Sensors for Personalized Nutrition. <i>ACS Sensors</i> , 2021, 6, 1745-1760.	7.8	106
16	Touch-Based Fingertip Blood-Free Reliable Glucose Monitoring: Personalized Data Processing for Predicting Blood Glucose Concentrations. <i>ACS Sensors</i> , 2021, 6, 1875-1883.	7.8	104
17	Simultaneous detection of salivary δ^9 -tetrahydrocannabinol and alcohol using a Wearable Electrochemical Ring Sensor. <i>Talanta</i> , 2020, 211, 120757.	5.5	95
18	Wearable potentiometric tattoo biosensor for on-body detection of G-type nerve agents simulants. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 966-972.	7.8	92

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19	Wearable Ring-Based Sensing Platform for Detecting Chemical Threats. <i>ACS Sensors</i> , 2017, 2, 1531-1538.	7.8	89
20	A passive perspiration biofuel cell: High energy return on investment. <i>Joule</i> , 2021, 5, 1888-1904.	24.0	89
21	Detection of vapor-phase organophosphate threats using wearable conformable integrated epidermal and textile wireless biosensor systems. <i>Biosensors and Bioelectronics</i> , 2018, 101, 227-234.	10.1	79
22	Skin-worn Soft Microfluidic Potentiometric Detection System. <i>Electroanalysis</i> , 2019, 31, 239-245.	2.9	77
23	Delayed Sensor Activation Based on Transient Coatings: Biofouling Protection in Complex Biofluids. <i>Journal of the American Chemical Society</i> , 2018, 140, 14050-14053.	13.7	59
24	Wearable soft electrochemical microfluidic device integrated with iontophoresis for sweat biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5411-5421.	3.7	39
25	Direct electrochemical biosensing in gastrointestinal fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4597-4604.	3.7	37
26	Microscale Biosensor Array Based on Flexible Polymeric Platform toward Lab-on-a-Needle: Real-Time Multiparameter Biomedical Assays on Curved Needle Surfaces. <i>ACS Sensors</i> , 2020, 5, 1363-1373.	7.8	37
27	Non-invasive Sweat-Based Tracking of Dopamine Pharmacokinetic Profiles Following an Oral Tablet Administration. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19074-19078.	13.8	36
28	Mechanistic aspects of glycerol electrooxidation on Pt(111) electrode in alkaline media. <i>Electrochemistry Communications</i> , 2018, 86, 149-152.	4.7	31
29	Enzymatic glucose/oxygen biofuel cells: Use of oxygen-rich cathodes for operation under severe oxygen-deficit conditions. <i>Biosensors and Bioelectronics</i> , 2018, 122, 284-289.	10.1	30
30	Electrocatalytic Oxidation of Glycerol on Platinum Single Crystals in Alkaline Media. <i>ChemElectroChem</i> , 2019, 6, 4238-4245.	3.4	27
31	Stimuli-Responsive Biointerface Based on Polymer Brushes for Glucose Detection. <i>Electroanalysis</i> , 2014, 26, 815-822.	2.9	19
32	Closing the loop for patients with Parkinson disease: where are we?. <i>Nature Reviews Neurology</i> , 2022, 18, 497-507.	10.1	19
33	Enzymatic biofuel cells based on protective hydrophobic carbon paste electrodes: towards epidermal bioenergy harvesting in the acidic sweat environment. <i>Chemical Communications</i> , 2020, 56, 2004-2007.	4.1	18
34	Screen-Printed Technologies Combined with Flow Analysis Techniques: Moving from Benchtop to Everywhere. <i>Analytical Chemistry</i> , 2022, 94, 250-268.	6.5	17
35	Decentralized vitamin C & D dual biosensor chip: Toward personalized immune system support. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113590.	10.1	14
36	Electrochemically Stimulated DNA Release from a Polymer-Brush Modified Electrode. <i>Electroanalysis</i> , 2015, 27, 2171-2179.	2.9	11

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37	Non-Invasive Sweat-Based Tracking of Dopamine Pharmacokinetic Profiles Following an Oral Tablet Administration. <i>Angewandte Chemie</i> , 2021, 133, 19222-19226.	2.0	10
38	Polymer Brush Modified Electrode with Switchable Selectivity Triggered by pH Changes Enhanced by Gold Nanoparticles. <i>Journal of the Brazilian Chemical Society</i> , 2013, , .	0.6	3
39	Effects of Protein A in Detection of Canine Distemper Virus Through Immunosensor Construction. <i>IEEE Sensors Journal</i> , 2015, 15, 4677-4683.	4.7	3
40	Wearable chemosensors. , 2022, , 219-234.		0