

Tyler R Ray

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,414
citations

318942

23
h-index

536525

29
g-index

31
all docs

31
docs citations

31
times ranked

4896
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft, skin-interfaced sweat stickers for cystic fibrosis diagnosis and management. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	65
2	Recent progress, challenges, and opportunities for wearable biochemical sensors for sweat analysis. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129447.	4.0	112
3	Recent progress in acoustic field-assisted 3D-printing of functional composite materials. <i>MRS Advances</i> , 2021, 6, 636-643.	0.5	11
4	State of Sweat: Emerging Wearable Systems for Real-Time, Noninvasive Sweat Sensing and Analytics. <i>ACS Sensors</i> , 2021, 6, 2787-2801.	4.0	76
5	Skin-interfaced soft microfluidic systems with modular and reusable electronics for <i>in situ</i> capacitive sensing of sweat loss, rate and conductivity. <i>Lab on A Chip</i> , 2020, 20, 4391-4403.	3.1	23
6	Microfluidics for interrogating live intact tissues. <i>Microsystems and Nanoengineering</i> , 2020, 6, 69.	3.4	25
7	Bridging functional nanocomposites to robust macroscale devices. <i>Science</i> , 2019, 364, .	6.0	118
8	Flexible Conductive Composites with Programmed Electrical Anisotropy Using Acoustophoresis. <i>Advanced Materials Technologies</i> , 2019, 4, 1900586.	3.0	30
9	Bio-Integrated Wearable Systems: A Comprehensive Review. <i>Chemical Reviews</i> , 2019, 119, 5461-5533.	23.0	822
10	Soft, Skin-Integrated Multifunctional Microfluidic Systems for Accurate Colorimetric Analysis of Sweat Biomarkers and Temperature. <i>ACS Sensors</i> , 2019, 4, 379-388.	4.0	239
11	Waterproof, electronics-enabled, epidermal microfluidic devices for sweat collection, biomarker analysis, and thermography in aquatic settings. <i>Science Advances</i> , 2019, 5, eaau6356.	4.7	208
12	Soft, Skin-Interfaced Microfluidic Systems with Passive Galvanic Stopwatches for Precise Chronometric Sampling of Sweat. <i>Advanced Materials</i> , 2019, 31, e1902109.	11.1	62
13	Soft, skin-interfaced wearable systems for sports science and analytics. <i>Current Opinion in Biomedical Engineering</i> , 2019, 9, 47-56.	1.8	84
14	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. <i>Science Advances</i> , 2019, 5, eaav3294.	4.7	497
15	Scaling relationships for acoustic control of two-phase microstructures during direct-write printing. <i>Materials Research Letters</i> , 2018, 6, 191-198.	4.1	23
16	Superabsorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. <i>Small</i> , 2018, 14, e1703334.	5.2	119
17	Epidermal Electronics: Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin (<i>Small</i> 47/2018). <i>Small</i> , 2018, 14, 1870226.	5.2	9
18	Fully implantable optoelectronic systems for battery-free, multimodal operation in neuroscience research. <i>Nature Electronics</i> , 2018, 1, 652-660.	13.1	157

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19	Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin. <i>Small</i> , 2018, 14, e1803192.	5.2	73
20	Epidermal electronics for noninvasive, wireless, quantitative assessment of ventricular shunt function in patients with hydrocephalus. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	68
21	A fluorometric skin-interfaced microfluidic device and smartphone imaging module for <i>in situ</i> quantitative analysis of sweat chemistry. <i>Lab on A Chip</i> , 2018, 18, 2178-2186.	3.1	166
22	Soft, skin-mounted microfluidic systems for measuring secretory fluidic pressures generated at the surface of the skin by eccrine sweat glands. <i>Lab on A Chip</i> , 2017, 17, 2572-2580.	3.1	117
23	Acoustic control of microstructures during direct ink writing of two-phase materials. <i>Sensors and Actuators A: Physical</i> , 2017, 268, 213-221.	2.0	40
24	Scaling Relationships for Direct Ink Writing with Acoustic Focusing. <i>Minerals, Metals and Materials Series</i> , 2017, , 137-145.	0.3	0
25	Deposition of ordered two-phase materials using microfluidic print nozzles with acoustic focusing. <i>Extreme Mechanics Letters</i> , 2016, 8, 96-106.	2.0	72
26	A simple microfluidic aggregation analyzer for the specific, sensitive and multiplexed quantification of proteins in a serum environment. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1062-1069.	5.3	14
27	Quantitative Characterization of the Colloidal Stability of Metallic Nanoparticles Using UV-vis Absorbance Spectroscopy. <i>Langmuir</i> , 2015, 31, 3577-3586.	1.6	47
28	Acoustic field controlled patterning and assembly of anisotropic particles. <i>Extreme Mechanics Letters</i> , 2015, 5, 37-46.	2.0	71
29	Dynamic Modeling of Storm Surge and Inland Flooding in a Texas Coastal Floodplain. <i>Journal of Hydraulic Engineering</i> , 2011, 137, 1103-1110.	0.7	40
30	Diffusion Linked Solidification Model of Axisymmetric Growth of Gold Nanorods. <i>Solid Mechanics and Its Applications</i> , 2009, , 199-210.	0.1	0
31	Influence of the nature of quantum dot surface cations on interactions with DNA. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 559-564.	1.5	26