

Cormac D Fay

List of Publications by Year in descending order

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44
papers

1,281
citations

430442

18
h-index

377514

34
g-index

44
all docs

44
docs citations

44
times ranked

1768
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Measurements Using LED Discharge Photometry (PEDD Approach): Critical Timing Effects Identified & Corrected. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	4
2	LED PEDD Discharge Photometry: Effects of Software Driven Measurements for Sensing Applications. Sensors, 2022, 22, 1526.	2.1	8
3	Advances in Optical Based Turbidity Sensing Using LED Photometry (PEDD). Sensors, 2022, 22, 254.	2.1	10
4	Development of a customised 3D printer as a potential tool for direct printing of patient-specific facial prosthesis. International Journal of Advanced Manufacturing Technology, 2022, 120, 7143-7155.	1.5	7
5	Problem-Driven and Technology-Enabled Solutions for Safer Communities. , 2021, , 1289-1316.		0
6	Problem-Driven and Technology-Enabled Solutions for Safer Communities. , 2021, , 1-28.		5
7	A microvalve cell printing technique using riboflavin photosensitizer for selective cell patterning onto a retinal chip. Bioprinting, 2020, 20, e00097.	2.9	8
8	Fabrication of Aligned Biomimetic Gellan Gum-Chitosan Microstructures through 3D Printed Microfluidic Channels and Multiple In Situ Cross-Linking Mechanisms. ACS Biomaterials Science and Engineering, 2020, 6, 3638-3648.	2.6	18
9	Wearable Electronic Textiles from Nanostructured Piezoelectric Fibers. Advanced Materials Technologies, 2020, 5, 1900900.	3.0	107
10	Computer-Aided Design and Manufacturing (CAD/CAM) for Bioprinting. Methods in Molecular Biology, 2020, 2140, 27-41.	0.4	9
11	Patterning and process parameter effects in 3D suspension near-field electrospinning of nanoarrays. Nanotechnology, 2019, 30, 495301.	1.3	9
12	A direct 3D suspension near-field electrospinning technique for the fabrication of polymer nanoarrays. Nanotechnology, 2019, 30, 195301.	1.3	7
13	Understanding the loss mechanisms in high-performance solution-processed small molecule bulk heterojunction solar cells doped with a PFN impurity. Physical Chemistry Chemical Physics, 2019, 21, 13176-13185.	1.3	3
14	Quantitative ultrasound imaging of cell-laden hydrogels and printed constructs. Acta Biomaterialia, 2019, 91, 173-185.	4.1	16
15	Effects of IPA treatment on the photovoltaic performance of bulk heterojunction organic solar cells. Journal of Physics and Chemistry of Solids, 2019, 130, 136-143.	1.9	6
16	Processable Thermally Conductive Polyurethane Composite Fibers. Macromolecular Materials and Engineering, 2019, 304, 1800542.	1.7	24
17	Investigation of S-shaped current-voltage characteristics in high-performance solution-processed small molecule bulk heterojunction solar cells. Organic Electronics, 2018, 62, 133-141.	1.4	7
18	A contactless approach for monitoring the mechanical properties of swollen hydrogels. Soft Matter, 2018, 14, 7228-7236.	1.2	8

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19	Autonomous reagent-based microfluidic pH sensor platform. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 369-376.	4.0	39
20	An integrated sensing and wireless communications platform for sensing sodium in sweat. <i>Analytical Methods</i> , 2016, 8, 64-71.	1.3	61
21	A Wearable Device for Monitoring Sweat Rates via Image Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1672-1680.	2.5	49
22	Self-propelled chemotactic ionic liquid droplets. <i>Chemical Communications</i> , 2015, 51, 2342-2344.	2.2	31
23	Enhanced Antifouling Properties of Carbohydrate Coated Poly(ether sulfone) Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17238-17246.	4.0	29
24	Development of a low cost microfluidic sensor for the direct determination of nitrate using chromotropic acid in natural waters. <i>Analytical Methods</i> , 2015, 7, 5396-5405.	1.3	35
25	The development of an autonomous sensing platform for the monitoring of ammonia in water using a simplified Berthelot method. <i>Analytical Methods</i> , 2014, 6, 7606-7614.	1.3	44
26	Portable integrated microfluidic analytical platform for the monitoring and detection of nitrite. <i>Talanta</i> , 2013, 116, 997-1004.	2.9	52
27	Dynamic pH mapping in microfluidic devices by integrating adaptive coatings based on polyaniline with colorimetric imaging techniques. <i>Lab on A Chip</i> , 2013, 13, 1079.	3.1	49
28	LED-LED portable oxygen gas sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2851-2858.	1.9	20
29	Real-time sweat pH monitoring based on a wearable chemical barcode micro-fluidic platform incorporating ionic liquids. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 1327-1334.	4.0	174
30	Distributed Environmental Monitoring. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2012, , 321-363.	0.5	3
31	A new light emitting diode-light emitting diode portable carbon dioxide gas sensor based on an interchangeable membrane system for industrial applications. <i>Analytica Chimica Acta</i> , 2011, 699, 216-222.	2.6	46
32	The optimisation of a paired emitter-detector diode optical pH sensing device. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 182-187.	4.0	19
33	Web-based monitoring of year-length deployments of autonomous gas sensing platforms on landfill sites. , 2011, , .		9
34	Wireless Ion-Selective Electrode Autonomous Sensing System. <i>IEEE Sensors Journal</i> , 2011, 11, 2374-2382.	2.4	25
35	Remote Real-Time Monitoring of Subsurface Landfill Gas Migration. <i>Sensors</i> , 2011, 11, 6603-6628.	2.1	17
36	Wireless aquatic navigator for detection and analysis (WANDA). <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 425-435.	4.0	23

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37	Biomimetics and materials with multiple personalities - The foundation of next generation molecular sensing devices. , 2010, , .		2
38	A wearable electrochemical sensor for the real-time measurement of sweat sodium concentration. Analytical Methods, 2010, 2, 342.	1.3	226
39	Autonomous greenhouse gas measurement system for analysis of gas migration on landfill sites. , 2010, , .		16
40	Wearable sensors for monitoring sports performance and training. , 2008, , .		25
41	Development of optical sensing system for detection of Fe ions using conductive polymer actuator based microfluidic pump. , 2008, , .		4
42	Wearable technology for bio-chemical analysis of body fluids during exercise. , 2008, 2008, 5741-4.		19
43	Wearable technology for the real-time analysis of sweat during exercise. , 2008, , .		8
44	On-Body Chemo/Bio-Sensing - Opportunities and Challenges. Advances in Science and Technology, 0, , .	0.2	0