

Sanket Goel

List of Publications by Year in descending order

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173
papers

2,913
citations

236925

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254184

43
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178
all docs

178
docs citations

178
times ranked

2021
citing authors

#	ARTICLE	IF	CITATIONS
1	Ink-jet-printed CuO nanoparticle-enhanced miniaturized paper-based electrochemical platform for hypochlorite sensing. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 1855-1861.	3.1	4
2	Flexible Paper and Cloth Substrates With Conductive Laser Induced Graphene Traces for Electroanalytical Sensing, Energy Harvesting and Supercapacitor Applications. <i>IEEE Sensors Journal</i> , 2023, 23, 24078-24085.	4.7	6
3	Three Different Rapidly Prototyped Polymeric Substrates With Interdigitated Electrodes for <i>Escherichia coli</i> Sensing: A Comparative Study. <i>IEEE Transactions on Nanobioscience</i> , 2023, 22, 337-344.	3.3	2
4	Modified Ultra Micro-Carbon Electrode for Efficient Ammonia Sensing for Water Quality Assessment. <i>IEEE Transactions on Nanobioscience</i> , 2023, 22, 301-307.	3.3	3
5	Miniaturized and IoT Enabled Continuous-Flow-Based Microfluidic PCR Device for DNA Amplification. <i>IEEE Transactions on Nanobioscience</i> , 2022, 21, 97-104.	3.3	30
6	Experimental investigations for dust build-up on low-iron glass exterior and its effects on the performance of solar PV systems. <i>Energy</i> , 2022, 239, 122213.	8.8	38
7	Microfluidic paper device with on-site heating to produce reactive peroxide species for enhanced smartphone enabled chemiluminescence signal. <i>Talanta</i> , 2022, 236, 122858.	5.5	11
8	<i>Shewanella putrefaciens</i> powered microfluidic microbial fuel cell with printed circuit board electrodes and soft-lithographic microchannel. <i>Chemosphere</i> , 2022, 286, 131855.	8.2	11
9	Electrochemical Mini-Platform With Thread- Based Electrodes for Interference Free Arsenic Detection. <i>IEEE Transactions on Nanobioscience</i> , 2022, 21, 117-124.	3.3	4
10	Laser-induced graphene electrode based flexible heterojunction photovoltaic cells. <i>Microelectronic Engineering</i> , 2022, 251, 111673.	2.4	11
11	Integrated Microfluidic Device With Carbon-Thread Microelectrodes for Electrochemical DNA Elemental Analysis. <i>IEEE Transactions on Nanobioscience</i> , 2022, 21, 322-329.	3.3	2
12	Fineline circuits realization with liquid photoresist and DMD-based photolithographic technique for space electronics applications. <i>Journal of Micro-nanopatterning, Materials, and Metrology</i> , 2022, 21, .	0.8	0
13	Corrections to "Paper-Based Membraneless Co-Laminar Microfluidic Glucose Biofuel Cell With MWCNT-Fed Bucky Paper Bioelectrodes" <i>IEEE Transactions on Nanobioscience</i> , 2022, 21, 166-166.	3.3	0
14	Internet of Things enabled environmental condition monitoring driven by laser ablated reduced graphene oxide based Al-air fuel cell. <i>Journal of Power Sources</i> , 2022, 521, 230938.	7.8	6
15	Leveraging 3-D Printer With 2.8-W Blue Laser Diode to Form Laser-Induced Graphene for Microfluidic Fuel Cell and Electrochemical Sensor. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1333-1340.	3.0	4
16	Laser-induced graphene ablated polymeric microfluidic device with interdigital electrodes for taste sensing application. <i>Sensors and Actuators A: Physical</i> , 2022, 333, 113301.	4.1	8
17	Dye-sensitized solar cells as promising candidates for underwater photovoltaic applications. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 632-639.	8.1	10
18	Internet of things-enabled photomultiplier tube and smartphone-based electrochemiluminescence platform to detect choline and dopamine using 3D-printed closed bipolar electrodes. <i>Luminescence</i> , 2022, 37, 357-365.	2.9	24

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19	Multiplexed and simultaneous biosensing in a 3D-printed portable six-well smartphone operated electrochemiluminescence standalone point-of-care platform. <i>Mikrochimica Acta</i> , 2022, 189, 79.	5.0	12
20	Carbon Cloth-Based Electrochemical Device for Specific and Sensitive Detection of Ascorbic Acid and Tryptophan. <i>IEEE Sensors Journal</i> , 2022, 22, 6072-6079.	4.7	1
21	Emerging trends in miniaturized and microfluidic electrochemical sensing platforms. <i>Current Opinion in Electrochemistry</i> , 2022, 33, 100930.	4.8	16
22	Body-worn enzymatic biofuel cell with automated pencil drawn bioelectrodes for energy harvesting from human sweat. <i>Journal of Micromechanics and Microengineering</i> , 2022, 32, 044002.	2.6	3
23	Broadband terahertz characterization of graphene oxide films fabricated on flexible substrates. <i>Optical Materials</i> , 2022, 125, 112045.	3.6	6
24	Erratum to "A Portable 3-D Printed Electrochemiluminescence Platform With Pencil Graphite Electrodes for Point-of-Care Multiplexed Analysis With Smartphone-Based Read Out" <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-2.	4.7	0
25	Photophysical, electrochemical properties and flexible organic solar cell application of 7,7-bis(1-cyclopropyl carbonyl piperazino)-8,8 dicyanoquinodimethane. <i>Materials Advances</i> , 2022, 3, 3151-3164.	5.4	1
26	Patch-Type Wearable Enzymatic Lactate Biofuel Cell With Carbon Cloth Bioelectrodes for Energy Harvesting From Human Sweat. , 2022, 1, 32-38.		2
27	A Review on Printed Electronics with Digital 3D Printing: Fabrication Techniques, Materials, Challenges and Future Opportunities. <i>Journal of Electronic Materials</i> , 2022, 51, 2747-2765.	2.2	27
28	What ails the photovoltaic performance in single-layered unpoled BFO? " The role of oxygen annealing in improving the photovoltaic efficiency. <i>Solar Energy</i> , 2022, 236, 822-831.	6.1	8
29	IoT enabled microfluidic colorimetric detection platform for continuous monitoring of nitrite and phosphate in soil. <i>Computers and Electronics in Agriculture</i> , 2022, 195, 106856.	7.7	9
30	Portable Chemiluminescence Detection Platform and Its Application in Creatinine Detection. <i>IEEE Sensors Journal</i> , 2022, 22, 7177-7184.	4.7	6
31	Rapid, sensitive and specific electrochemical detection of E. coli using graphitized mesoporous carbon modified electrodes. <i>Sensors and Actuators A: Physical</i> , 2022, 338, 113483.	4.1	3
32	Fabrication of ultra-thin laser induced graphene electrodes over negative photoresist on glass for various electronic applications. <i>Microelectronic Engineering</i> , 2022, 259, 111790.	2.4	2
33	Laser-induced graphene-based miniaturized, flexible, non-volatile resistive switching memory devices. <i>Journal of Materials Research</i> , 2022, 37, 3976-3987.	2.6	4
34	Miniaturized 3D printed electrochemical platform with optimized Fibrous carbon electrode for non-interfering hypochlorite sensing. <i>Chemosphere</i> , 2022, 302, 134915.	8.2	2
35	Recent advancements in integrated microthermofluidic systems for biochemical and biomedical applications " A review. <i>Sensors and Actuators A: Physical</i> , 2022, 341, 113590.	4.1	19
36	Integrated Microfluidic Device With MXene Enhanced Laser-Induced Graphene Bioelectrode for Sensitive and Selective Electroanalytical Detection of Dopamine. <i>IEEE Sensors Journal</i> , 2022, 22, 14620-14627.	4.7	9

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37	Laser Ablated Reduced Graphene Oxide on Paper to Realize Single Electrode Electrochemiluminescence Standalone Miniplatform Integrated With a Smartphone. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	6
38	An overview of nanomaterial-enhanced miniaturized/microfluidic devices for electrochemical sensing. , 2022, , 23-42.		1
39	A facile technique to develop conductive paper based bioelectrodes for microbial fuel cell applications. Biosensors and Bioelectronics, 2022, , 114479.	10.1	1
40	Role of Microfluidics in Drug Delivery. , 2022, , 107-133.		1
41	Microfluidic paper microbial fuel cell powered by Shewanella putrefaciens in IoT cloud framework. International Journal of Hydrogen Energy, 2021, 46, 3230-3239.	7.1	25
42	Miniaturized polymeric enzymatic biofuel cell with integrated microfluidic device and enhanced laser ablated bioelectrodes. International Journal of Hydrogen Energy, 2021, 46, 3183-3192.	7.1	34
43	Crude black pepper phytochemical 3D printed cell based miniaturized hydrazine electrochemical sensing platform. Journal of Electroanalytical Chemistry, 2021, 880, 114761.	3.8	6
44	Metal-free Al-air microfluidic paper fuel cell to power portable electronic devices. International Journal of Energy Research, 2021, 45, 7070-7081.	4.5	9
45	Miniaturized Electrochemiluminescence Platform With Laser-Induced Graphene Electrodes for Multiple Biosensing. IEEE Transactions on Nanobioscience, 2021, 20, 79-85.	3.3	28
46	Parametric Performance Investigation on Membraneless Microfluidic Paper Fuel Cell with Graphite Composed Pencil Stroke Electrodes. International Journal of Precision Engineering and Manufacturing, 2021, 22, 177-187.	2.2	6
47	A Portable 3-D Printed Electrochemiluminescence Platform With Pencil Graphite Electrodes for Point-of-Care Multiplexed Analysis With Smartphone-Based Read Out. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	12
48	MoS ₂ /cellulose paper coupled with SnS ₂ quantum dots as 2D/0D electrode for high-performance flexible supercapacitor. New Journal of Chemistry, 2021, 45, 8516-8526.	2.8	16
49	Direct Electron Transfer based Microfluidic Glucose Biofuel cell with CO ₂ Laser ablated Bioelectrodes and Microchannel. IEEE Transactions on Nanobioscience, 2021, PP, 1-1.	3.3	7
50	Miniaturized Thermal Monitoring Module With CO ₂ Laser Ablated Microfluidic Device for Electrochemically Validated DNA Amplification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	18
51	Review Miniaturized and Microfluidic Devices for Automated Nanoparticle Synthesis. ECS Journal of Solid State Science and Technology, 2021, 10, 017002.	1.8	35
52	Development of Completely Automated Poly Potential Portable Potentiostat. ECS Journal of Solid State Science and Technology, 2021, 10, 027001.	1.8	3
53	Miniaturized PMMA Electrochemical Platform With Carbon Fiber for Multiplexed and Noninterfering Biosensing of Real Samples. IEEE Transactions on Electron Devices, 2021, 68, 769-774.	3.0	9
54	Biodegradable microneedles fabricated with carbohydrates and proteins: Revolutionary approach for transdermal drug delivery. International Journal of Biological Macromolecules, 2021, 170, 602-621.	7.5	67

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55	Electrochemiluminescence sensing of vitamin B12 using laser-induced graphene based bipolar and single electrodes in a 3D-printed portable system. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	2.2	19
56	Highly Sensitive and Interference-Free Electrochemical Nitrite Detection in a 3D Printed Miniaturized Device. <i>IEEE Transactions on Nanobioscience</i> , 2021, 20, 175-182.	3.3	13
57	Handheld and "Turnkey" 3D printed paper-microfluidic viscometer with on-board microcontroller for smartphone based biosensing applications. <i>Analytica Chimica Acta</i> , 2021, 1153, 338303.	5.4	12
58	Integrated Temperature Controlling Platform to Synthesize ZnO Nanoparticles and its Deposition on Al-Foil for Biosensing. <i>IEEE Sensors Journal</i> , 2021, 21, 9538-9545.	4.7	15
59	Investigation of Silicon Solar Cells under Submerged Conditions with the Influence of Various Parameters: A Comparative Study. <i>Energy Technology</i> , 2021, 9, 2100018.	3.8	7
60	Microfluidic viscometers for biochemical and biomedical applications: A review. <i>Engineering Research Express</i> , 2021, 3, 022003.	1.6	25
61	Portable Electrochemiluminescence Platform With Laser-Induced Graphene-Based U-Shaped Bipolar Electrode for Selective Sensing of Various Analytes. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 2447-2454.	3.0	11
62	Droplet-based lab-on-chip platform integrated with laser ablated graphene heaters to synthesize gold nanoparticles for electrochemical sensing and fuel cell applications. <i>Scientific Reports</i> , 2021, 11, 9750.	3.3	19
63	A Study on the effect of Cr doping on the Structural, Optical and Photovoltaic Properties of BFO based Heterostructures. , 2021, , .		2
64	Smartphone enabled miniaturized temperature controller platform to synthesize NiO/CuO nanoparticles for electrochemical sensing and nanomicelles for ocular drug delivery applications. <i>Biomedical Microdevices</i> , 2021, 23, 31.	2.8	14
65	Electro-Microfluidic Viscometer with Integrated Microcontroller and Pumping System for Point-of-Care Biosensing Applications. <i>IEEE Instrumentation and Measurement Magazine</i> , 2021, 24, 23-28.	1.6	2
66	Laser induced graphene electrodes enhanced with carbon nanotubes for membraneless microfluidic fuel cell. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101176.	2.7	9
67	Catalyst-mitigated arrayed aluminum-air origami fuel cell with ink-jet printed custom-porosity cathode. <i>Energy</i> , 2021, 224, 120017.	8.8	8
68	Miniaturized DNA amplification platform with soft-lithographically fabricated continuous-flow PCR microfluidic device on a portable temperature controller. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	2.2	15
69	Laser-Induced Graphene Printed Wearable Flexible Antenna-Based Strain Sensor for Wireless Human Motion Monitoring. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 3189-3194.	3.0	44
70	Droplet based microfluidic device integrated with ink jet printed three electrode system for electrochemical detection of ascorbic acid. <i>Sensors and Actuators A: Physical</i> , 2021, 325, 112685.	4.1	18
71	Submerged solar energy harvesting using ferroelectric Ti-doped <sc>BFO</sc> based heterojunction solar cells. <i>International Journal of Energy Research</i> , 2021, 45, 20400-20412.	4.5	6
72	Rapid Inkjet-Printed Miniaturized Interdigitated Electrodes for Electrochemical Sensing of Nitrite and Taste Stimuli. <i>Micromachines</i> , 2021, 12, 1037.	2.9	8

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73	Portable Thermal Management Platform for Synthesis of ZnO Nanoparticle in a Microfluidic Device: Validated for Electrochemical Sensing and Glucose Fuel Cell Applications. IEEE Transactions on Electron Devices, 2021, 68, 4070-4076.	3.0	9
74	Experimental studies on droplet characteristics in a microfluidic flow focusing droplet generator: effect of continuous phase on droplet encapsulation. European Physical Journal E, 2021, 44, 108.	1.6	6
75	Enhanced photovoltaic response in ferroelectric Ti-doped BFO heterojunction through interface engineering for building integrated applications. Solar Energy, 2021, 225, 863-874.	6.1	14
76	Extensive Enhancement in Charge Collection Efficiency of Ferroelectric Cr-Doped BFO-Based Solar Cells by Using TiO ₂ Nanotube Arrays. IEEE Journal of Photovoltaics, 2021, 11, 1278-1284.	2.5	6
77	Influence of cellulose separators in coin-sized 3D printed paper-based microbial fuel cells. Sustainable Energy Technologies and Assessments, 2021, 47, 101535.	2.7	14
78	Microfluidic non-enzymatic biofuel cell integrated with electrodeposited metallic catalysts on a paper based platform. Journal of Power Sources, 2021, 510, 230405.	7.8	6
79	Development of Laser-Induced Graphene-Based Automated Electro Microfluidic Viscometer for Biochemical Sensing Applications. IEEE Transactions on Electron Devices, 2021, 68, 5184-5191.	3.0	9
80	Portable and Autonomous Device for Real-time Colorimetric Detection: Validation for Phosphorous and Nitrite Detection. Sensors and Actuators A: Physical, 2021, 330, 112896.	4.1	21
81	Single-step inkjet-printed paper-origami arrayed air-breathing microfluidic microbial fuel cell and its validation. International Journal of Hydrogen Energy, 2021, 46, 35408-35419.	7.1	20
82	Simultaneous detection of Vitamin B12 and Vitamin C from real samples using miniaturized laser-induced graphene based electrochemiluminescence device with closed bipolar electrode. Sensors and Actuators A: Physical, 2021, 331, 112831.	4.1	27
83	A brief review on miniaturized electrochemiluminescence devices: From fabrication to applications. Current Opinion in Electrochemistry, 2021, 30, 100800.	4.8	28
84	Droplet based microfluidics integrated with machine learning. Sensors and Actuators A: Physical, 2021, 332, 113096.	4.1	30
85	Optimized ink jetted paper device for electroanalytical detection of picric acid. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112056.	5.0	33
86	Miniaturized Electrochemiluminescence Platform With Laser-Induced Graphene-Based Single Electrode for Interference-Free Sensing of Dopamine, Xanthine, and Glucose. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	19
87	Single microfluidic fuel cell with three fuels " formic acid, glucose and microbes: A comparative performance investigation. Journal of Electrochemical Science and Engineering, 2021, 11, 306-316.	3.5	2
88	First report on graphene oxide free, ultrafast fabrication of reduced graphene oxide on paper via visible light laser irradiation. Diamond and Related Materials, 2021, 120, 108680.	3.9	6
89	Flexible Touch Pad on Paper and Cloth by Blue Diode Ablated Laser Induced Graphene. , 2021, , .		1
90	Paper-based optimized chemical fuel cell with laser-scribed graphene electrodes for energy harvesting. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	3

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91	Graphenized Papertronic Devices using Blue Laser ablated Polyimide Resin Paper. , 2021, , .		3
92	High performance MXene supported Gold Nanoparticles-based 3D Printed Anode for Non-Enzymatic Biofuel Cell. , 2021, , .		1
93	3D Printed Bioelectrodes for Enzymatic Biofuel Cell: Simple, Rapid, Optimized and Enhanced Approach. IEEE Transactions on Nanobioscience, 2020, 19, 4-10.	3.3	23
94	Underwater Characterization and Monitoring of Amorphous and Monocrystalline Solar Cells in Diverse Water Settings. IEEE Sensors Journal, 2020, 20, 2730-2737.	4.7	18
95	Performance Analysis of Submerged Polycrystalline Photovoltaic Cell in Varying Water Conditions. IEEE Journal of Photovoltaics, 2020, 10, 531-538.	2.5	17
96	Development of Membraneless Paperâ€pencil Microfluidic Hydrazine Fuel Cell. Electroanalysis, 2020, 32, 2581-2588.	2.9	7
97	Surface modified 3D printed carbon bioelectrodes for glucose/O2 enzymatic biofuel cell: Comparison and optimization. Sustainable Energy Technologies and Assessments, 2020, 42, 100811.	2.7	13
98	Analysis of submerged amorphous, mono-and poly-crystalline silicon solar cells using halogen lamp and comparison with xenon solar simulator. Solar Energy, 2020, 211, 744-752.	6.1	14
99	Miniaturized Platform With Nanocomposite Optimized Pencil Electrodes for Selective Non-Interfering Electrochemical Sensing. IEEE Nanotechnology Magazine, 2020, 19, 575-578.	2.0	7
100	Optimized Shelf-Stacked Paper Origami-Based Glucose Biofuel Cell with Immobilized Enzymes and a Mediator. ACS Sustainable Chemistry and Engineering, 2020, 8, 12313-12320.	6.7	31
101	Electromicrofluidic Device on Multilayered Laser-Induced Polyamide Substrate for Diverse Electrochemical Applications. IEEE Transactions on Electron Devices, 2020, 67, 5097-5103.	3.0	9
102	Plasma Treatment and Copper Metallization for Reliable Plated-Through-Holes in Microwave PCBs for Space Electronic Packaging. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1921-1928.	2.5	10
103	Flexible and optimized carbon paste electrodes for direct electron transfer-based glucose biofuel cell fed by various physiological fluids. Applied Nanoscience (Switzerland), 2020, 10, 4315-4324.	3.1	14
104	Automated pencil electrode formation platform to realize uniform and reproducible graphite electrodes on paper for microfluidic fuel cells. Scientific Reports, 2020, 10, 11675.	3.3	24
105	Optimization of Carbon Cloth Bioelectrodes for Enzyme-based Biofuel cell for Wearable Bioelectronics. , 2020, , .		3
106	Electronic Nasal Pod: A 3D Printed Device to Filter and Electrochemically Detect pollutants. , 2020, , .		1
107	Optimization and characterization of direct UV laser writing system for microscale applications. Journal of Micromechanics and Microengineering, 2020, 30, 095003.	2.6	28
108	Highly Selective Electrochemical Sensing of Dopamine, Xanthine, Ascorbic Acid and Uric Acid Using a Carbon Fiber Paper. IEEE Sensors Journal, 2020, 20, 11707-11712.	4.7	25

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109	Miniaturized electrochemical platform with ink-jetted electrodes for multiplexed and interference mitigated biochemical sensing. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3745-3755.	3.1	15
110	Internet of Things enabled portable thermal management system with microfluidic platform to synthesize MnO ₂ nanoparticles for electrochemical sensing. <i>Nanotechnology</i> , 2020, 31, 425504.	2.6	35
111	Laser-Induced Flexible Electronics (LIFE) for Resistive, Capacitive and Electrochemical Sensing Applications. <i>IEEE Sensors Journal</i> , 2020, 20, 7392-7399.	4.7	49
112	PDMS-Based Microfluidic Glucose Biofuel Cell Integrated With Optimized Laser-Induced Flexible Graphene Bioelectrodes. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 1832-1838.	3.0	44
113	Analysing consequence of solar irradiance on amorphous silicon solar cell in variable underwater environments. <i>International Journal of Energy Research</i> , 2020, 44, 4493-4504.	4.5	12
114	Direct UV laser writing system to photolithographically fabricate optimal microfluidic geometries: Experimental investigations. <i>Materials Today: Proceedings</i> , 2020, 28, 799-803.	1.8	3
115	Experimental characterization to fabricate CO ₂ laser ablated PMMA microchannel with homogeneous surface. <i>Materials Today: Proceedings</i> , 2020, 28, 804-807.	1.8	10
116	Microfluidic Soil Nutrient Detection System: Integrating Nitrite, pH, and Electrical Conductivity Detection. <i>IEEE Sensors Journal</i> , 2020, 20, 4504-4511.	4.7	34
117	Performance optimization of microfluidic paper fuel cell with varying cellulose fiber papers as absorbent pad. <i>International Journal of Energy Research</i> , 2020, 44, 3893-3904.	4.5	35
118	Study of solar irradiance and performance analysis of submerged monocrystalline and polycrystalline solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 725-735.	8.1	23
119	Greenly synthesized silver nanoparticles for supercapacitor and electrochemical sensing applications in a 3D printed microfluidic platform. <i>Microchemical Journal</i> , 2020, 157, 104973.	4.5	41
120	Laser induced graphene on phenolic resin and alcohol composite sheet for flexible electronics applications. <i>Flexible and Printed Electronics</i> , 2020, 5, 042001.	2.7	15
121	Advances in continuous-flow based microfluidic PCR devices—a review. <i>Engineering Research Express</i> , 2020, 2, 042001.	1.6	37
122	Microfluidic devices for synthesizing nanomaterials—a review. <i>Nano Express</i> , 2020, 1, 032004.	2.4	45
123	Optimization and Characterization of Laser-Induced Graphene Electrodes for Chemical Fuel Cell to Realize a Microfluidic Platform. , 2020, , .		1
124	Automated Mini-Platform With 3-D Printed Paper Microstrips for Image Processing-Based Viscosity Measurement of Biological Samples. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 2559-2565.	3.0	11
125	Statistical Performance Analysis and Robust Design of Paper Microfluidic Membraneless Fuel Cell With Pencil Graphite Electrodes. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	2.1	15
126	Development of Miniaturized Interdigitated Electrode Sensors and Their Application in Taste Sensing. <i>ECS Transactions</i> , 2020, 98, 49-56.	0.5	5

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127	Modified Graphite Paper Based Miniaturized Electrochemically Optimized Hydrazine Sensing Platform. ECS Journal of Solid State Science and Technology, 2020, 9, 115001.	1.8	15
128	Study of Submerged Mono-and Poly-Crystalline Silicon Solar Cells with Split Spectral Ranges Using Optical Filters. ECS Journal of Solid State Science and Technology, 2020, 9, 075005.	1.8	6
129	Realization of Optimized Wax Laminated Microfluidic Paper-Based Analytical Devices. ECS Journal of Solid State Science and Technology, 2020, 9, 115025.	1.8	9
130	Miniaturized Disposable Buckypaper-Polymer Substrate Based Electrochemical Purine Sensing Platform. ECS Journal of Solid State Science and Technology, 2020, 9, 101009.	1.8	2
131	Microfluidic Enzymatic Glucose Biofuel Cell with MWCNT patterned Printed Circuit Board Electrodes. , 2020, , .		0
132	Development of Miniaturized Interdigitated Electrode Sensors and Their Application in Taste Sensing. ECS Meeting Abstracts, 2020, MA2020-02, 3400-3400.	0.0	1
133	Novel 3D Printed Microfluidic Paper-Based Analytical Device With Integrated Screen-Printed Electrodes for Automated Viscosity Measurements. IEEE Transactions on Electron Devices, 2019, 66, 3196-3201.	3.0	20
134	<i>Escherichia Coli</i> Fed Paper-Based Microfluidic Microbial Fuel Cell With MWCNT Composed Bucky Paper Bioelectrodes. IEEE Transactions on Nanobioscience, 2019, 18, 510-515.	3.3	14
135	Realization of Microfluidic Paper-Based Analytical Devices Using a 3-D Printer: Characterization and Optimization. IEEE Transactions on Device and Materials Reliability, 2019, 19, 529-536.	2.0	16
136	Next-Generation 3D Printed Microfluidic Membraneless Enzymatic Biofuel Cell: Cost-Effective and Rapid Approach. IEEE Transactions on Electron Devices, 2019, 66, 3628-3635.	3.0	24
137	Miniaturized additively manufactured co-laminar microfluidic glucose biofuel cell with optimized grade pencil bioelectrodes. International Journal of Hydrogen Energy, 2019, 44, 31434-31444.	7.1	19
138	Fully Integrated, Automated, and Smartphone Enabled Point-of-Source Portable Platform With Microfluidic Device for Nitrite Detection. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1518-1524.	4.0	30
139	Enzymatic fuel cells in a microfluidic environment: Status and opportunities. A mini review. Electrochemistry Communications, 2019, 107, 106533.	4.7	30
140	Amperometric Automation and Optimization Paper Microfluidic Viscometer. , 2019, 3, 1-4.		4
141	Fully Assembled Membraneless Glucose Biofuel Cell With MWCNT Modified Pencil Graphite Leads as Novel Bioelectrodes. IEEE Transactions on Nanobioscience, 2019, 18, 170-175.	3.3	5
142	Fabrication of Enzymatic Biofuel Cell with Electrodes on Both Sides of Microfluidic Channel. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 511-520.	4.9	11
143	Laser-induced Flexible Graphene Bioelectrodes for Enzymatic Biofuel Cell. , 2019, , .		2
144	Microfluidic paper based membraneless biofuel cell to harvest energy from various beverages. Journal of Electrochemical Science and Engineering, 2019, 10, 49-54.	3.5	9

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145	Functionalized and Enhanced HB Pencil Graphite as Bioanode for Glucose-O ₂ Biofuel Cell. IEEE Sensors Journal, 2019, 19, 802-811.	4.7	14
146	3-D Printed Integrated and Automated Electro-Microfluidic Viscometer for Biochemical Applications. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2648-2655.	4.7	20
147	From waste to watts in micro-devices: Review on development of Membraned and Membraneless Microfluidic Microbial Fuel Cell. Applied Materials Today, 2018, 11, 270-279.	4.3	54
148	Optimized Bucky Paper-Based Bioelectrodes for Oxygen-Glucose Fed Enzymatic Biofuel Cells. IEEE Sensors Journal, 2018, 18, 5395-5401.	4.7	24
149	Paper-Based Membraneless Co-Laminar Microfluidic Glucose Biofuel Cell With MWCNT-Fed Bucky Paper Bioelectrodes. IEEE Transactions on Nanobioscience, 2018, 17, 374-379.	3.3	39
150	Microfluidic diffusivity meter: a tool to optimize CO ₂ driven enhanced oil recovery. Proceedings of SPIE, 2017, , .	0.8	1
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