

# Sanket Goel

## List of Publications by Year in descending order

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173  
papers

2,913  
citations

236925

25  
h-index

254184

43  
g-index

178  
all docs

178  
docs citations

178  
times ranked

2021  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen: A sustainable fuel for future of the transport sector. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 623-633.	16.4	503
2	Application of electrochemical impedance spectroscopy in bio-fuel cell characterization: A review. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20159-20170.	7.1	74
3	Biodegradable microneedles fabricated with carbohydrates and proteins: Revolutionary approach for transdermal drug delivery. <i>International Journal of Biological Macromolecules</i> , 2021, 170, 602-621.	7.5	67
4	From waste to watts in micro-devices: Review on development of Membraned and Membraneless Microfluidic Microbial Fuel Cell. <i>Applied Materials Today</i> , 2018, 11, 270-279.	4.3	54
5	Laser-Induced Flexible Electronics (LIFE) for Resistive, Capacitive and Electrochemical Sensing Applications. <i>IEEE Sensors Journal</i> , 2020, 20, 7392-7399.	4.7	49
6	Microfluidic devices for synthesizing nanomaterials—a review. <i>Nano Express</i> , 2020, 1, 032004.	2.4	45
7	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
8	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
9	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
10	Paper-Based Membraneless Co-Laminar Microfluidic Glucose Biofuel Cell With MWCNT-Fed Bucky Paper Bioelectrodes. <i>IEEE Transactions on Nanobioscience</i> , 2018, 17, 374-379.	3.3	39
11	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
12	Advances in continuous-flow based microfluidic PCR devices—a review. <i>Engineering Research Express</i> , 2020, 2, 042001.	1.6	37
13	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
14	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
15	Review—Miniaturized and Microfluidic Devices for Automated Nanoparticle Synthesis. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 017002.	1.8	35
16	Rapid and Automated Measurement of Milk Adulteration Using a 3D Printed Optofluidic Microviscometer (OMV). <i>IEEE Sensors Journal</i> , 2016, 16, 3000-3007.	4.7	34
17	Microfluidic Soil Nutrient Detection System: Integrating Nitrite, pH, and Electrical Conductivity Detection. <i>IEEE Sensors Journal</i> , 2020, 20, 4504-4511.	4.7	34
18	Miniaturized polymeric enzymatic biofuel cell with integrated microfluidic device and enhanced laser ablated bioelectrodes. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3183-3192.	7.1	34

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19	Optimized ink jetted paper device for electroanalytical detection of picric acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 208, 112056.	5.0	33
20	Optimized Shelf-Stacked Paper Origami-Based Glucose Biofuel Cell with Immobilized Enzymes and a Mediator. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12313-12320.	6.7	31
21	Fully Integrated, Automated, and Smartphone Enabled Point-of-Source Portable Platform With Microfluidic Device for Nitrite Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019, 13, 1518-1524.	4.0	30
22	Enzymatic fuel cells in a microfluidic environment: Status and opportunities. A mini review. <i>Electrochemistry Communications</i> , 2019, 107, 106533.	4.7	30
23	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
24	Droplet based microfluidics integrated with machine learning. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113096.	4.1	30
25	Optimization and characterization of direct UV laser writing system for microscale applications. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 095003.	2.6	28
26	Miniaturized Electrochemiluminescence Platform With Laser-Induced Graphene Electrodes for Multiple Biosensing. <i>IEEE Transactions on Nanobioscience</i> , 2021, 20, 79-85.	3.3	28
27	A brief review on miniaturized electrochemiluminescence devices: From fabrication to applications. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100800.	4.8	28
28	Multi walled carbon nanotube and polyaniline coated pencil graphite based bio-cathode for enzymatic biofuel cell. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9515-9522.	7.1	27
29	Simultaneous detection of Vitamin B12 and Vitamin C from real samples using miniaturized laser-induced graphene based electrochemiluminescence device with closed bipolar electrode. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 112831.	4.1	27
30	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
31	Screening various pencil leads coated with MWCNT and PANI as enzymatic biofuel cell biocathode. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27220-27229.	7.1	25
32	Highly Selective Electrochemical Sensing of Dopamine, Xanthine, Ascorbic Acid and Uric Acid Using a Carbon Fiber Paper. <i>IEEE Sensors Journal</i> , 2020, 20, 11707-11712.	4.7	25
33	Microfluidic paper microbial fuel cell powered by <i>Shewanella putrefaciens</i> in IoT cloud framework. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3230-3239.	7.1	25
34	Microfluidic viscometers for biochemical and biomedical applications: A review. <i>Engineering Research Express</i> , 2021, 3, 022003.	1.6	25
35	Optimized Bucky Paper-Based Bioelectrodes for Oxygen-Reduced Glucose Fed Enzymatic Biofuel Cells. <i>IEEE Sensors Journal</i> , 2018, 18, 5395-5401.	4.7	24
36	Next-Generation 3D Printed Microfluidic Membraneless Enzymatic Biofuel Cell: Cost-Effective and Rapid Approach. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 3628-3635.	3.0	24

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37	Automated pencil electrode formation platform to realize uniform and reproducible graphite electrodes on paper for microfluidic fuel cells. <i>Scientific Reports</i> , 2020, 10, 11675.	3.3	24
38	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
39	Recent developments in enzymatic biofuel cell: towards implantable integrated micro-devices. <i>International Journal of Nanoparticles</i> , 2015, 8, 61.	0.3	23
40	3D Printed Bioelectrodes for Enzymatic Biofuel Cell: Simple, Rapid, Optimized and Enhanced Approach. <i>IEEE Transactions on Nanobioscience</i> , 2020, 19, 4-10.	3.3	23
41	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
42	Portable and Autonomous Device for Real-time Colorimetric Detection: Validation for Phosphorous and Nitrite Detection. <i>Sensors and Actuators A: Physical</i> , 2021, 330, 112896.	4.1	21
43	Novel 3D Printed Microfluidic Paper-Based Analytical Device With Integrated Screen-Printed Electrodes for Automated Viscosity Measurements. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 3196-3201.	3.0	20
44	3-D Printed Integrated and Automated Electro-Microfluidic Viscometer for Biochemical Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 2648-2655.	4.7	20
45	Single-step inkjet-printed paper-origami arrayed air-breathing microfluidic microbial fuel cell and its validation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35408-35419.	7.1	20
46	Miniaturized additively manufactured co-laminar microfluidic glucose biofuel cell with optimized grade pencil bioelectrodes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31434-31444.	7.1	19
47	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
48	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
49	Miniaturized Electrochemiluminescence Platform With Laser-Induced Graphene-Based Single Electrode for Interference-Free Sensing of Dopamine, Xanthine, and Glucose. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	19
50	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
51	Rapid and automated measurement of biofuel blending using a microfluidic viscometer. <i>Fuel</i> , 2015, 139, 213-219.	6.4	18
52	Underwater Characterization and Monitoring of Amorphous and Monocrystalline Solar Cells in Diverse Water Settings. <i>IEEE Sensors Journal</i> , 2020, 20, 2730-2737.	4.7	18
53	Miniaturized Thermal Monitoring Module With CO <sub>2</sub> , Laser Ablated Microfluidic Device for Electrochemically Validated DNA Amplification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	18
54	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

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55	Performance Analysis of Submerged Polycrystalline Photovoltaic Cell in Varying Water Conditions. IEEE Journal of Photovoltaics, 2020, 10, 531-538.	2.5	17
56	Fabrication of Vertically aligned Copper Nanotubes as a Novel Electrode for Enzymatic Biofuel Cells. Electrochimica Acta, 2015, 167, 213-218.	5.2	16
57	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
58	MoS <sub>2</sub> /cellulose paper coupled with SnS <sub>2</sub> quantum dots as 2D/0D electrode for high-performance flexible supercapacitor. New Journal of Chemistry, 2021, 45, 8516-8526.	2.8	16
59	Emerging trends in miniaturized and microfluidic electrochemical sensing platforms. Current Opinion in Electrochemistry, 2022, 33, 100930.	4.8	16
60	Miniaturized electrochemical platform with ink-jetted electrodes for multiplexed and interference mitigated biochemical sensing. Applied Nanoscience (Switzerland), 2020, 10, 3745-3755.	3.1	15
61	Integrated Temperature Controlling Platform to Synthesize ZnO Nanoparticles and its Deposition on Al-Foil for Biosensing. IEEE Sensors Journal, 2021, 21, 9538-9545.	4.7	15
62	Miniaturized DNA amplification platform with soft-lithographically fabricated continuous-flow PCR microfluidic device on a portable temperature controller. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	15
63	Laser induced graphene on phenolic resin and alcohol composite sheet for flexible electronics applications. Flexible and Printed Electronics, 2020, 5, 042001.	2.7	15
64	Statistical Performance Analysis and Robust Design of Paper Microfluidic Membraneless Fuel Cell With Pencil Graphite Electrodes. Journal of Electrochemical Energy Conversion and Storage, 2020, 17, .	2.1	15
65	Modified Graphite Paper Based Miniaturized Electrochemically Optimized Hydrazine Sensing Platform. ECS Journal of Solid State Science and Technology, 2020, 9, 115001.	1.8	15
66	<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
67	Functionalized and Enhanced HB Pencil Graphite as Bioanode for Glucose-O <sub>2</sub> Biofuel Cell. IEEE Sensors Journal, 2019, 19, 802-811.	4.7	14
68	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
69	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
70	Smartphone enabled miniaturized temperature controller platform to synthesize NiO/CuO nanoparticles for electrochemical sensing and nanomicelles for ocular drug delivery applications. Biomedical Microdevices, 2021, 23, 31.	2.8	14
71	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
72	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

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73	Pyrosequencing enhancement for better detection limit and sequencing homopolymers. <i>Biochemical and Biophysical Research Communications</i> , 2010, 401, 117-123.	2.1	13
74	Surface modified 3D printed carbon bioelectrodes for glucose/O <sub>2</sub> enzymatic biofuel cell: Comparison and optimization. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100811.	2.7	13
75	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
76	Integrated optical measurement of microfluid velocity. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1810-1816.	2.6	12
77	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
78	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> , 2021, 70, 1-10.	4.7	12
79	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
80	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
81	Fabrication of Enzymatic Biofuel Cell with Electrodes on Both Sides of Microfluidic Channel. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 511-520.	4.9	11
82	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
83	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
84	<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
85	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
86	Laser-induced graphene electrode based flexible heterojunction photovoltaic cells. <i>Microelectronic Engineering</i> , 2022, 251, 111673.	2.4	11
87	Plasma Treatment and Copper Metallization for Reliable Plated-Through-Holes in Microwave PCBs for Space Electronic Packaging. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020, 10, 1921-1928.	2.5	10
88	Experimental characterization to fabricate CO <sub>2</sub> laser ablated PMMA microchannel with homogeneous surface. <i>Materials Today: Proceedings</i> , 2020, 28, 804-807.	1.8	10
89	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
90	Microfluidic paper based membraneless biofuel cell to harvest energy from various beverages. <i>Journal of Electrochemical Science and Engineering</i> , 2019, 10, 49-54.	3.5	9

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91	Electromicrofluidic Device on Multilayered Laser-Induced Polyamide Substrate for Diverse Electrochemical Applications. IEEE Transactions on Electron Devices, 2020, 67, 5097-5103.	3.0	9
92	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
93	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
94	Laser induced graphene electrodes enhanced with carbon nanotubes for membraneless microfluidic fuel cell. Sustainable Energy Technologies and Assessments, 2021, 45, 101176.	2.7	9
95	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
96	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
97	Realization of Optimized Wax Laminated Microfluidic Paper-Based Analytical Devices. ECS Journal of Solid State Science and Technology, 2020, 9, 115025.	1.8	9
98	IoT enabled microfluidic colorimetric detection platform for continuous monitoring of nitrite and phosphate in soil. Computers and Electronics in Agriculture, 2022, 195, 106856.	7.7	9
99	Integrated Microfluidic Device With MXene Enhanced Laser-Induced Graphene Bioelectrode for Sensitive and Selective Electroanalytical Detection of Dopamine. IEEE Sensors Journal, 2022, 22, 14620-14627.	4.7	9
100	Catalyst-mitigated arrayed aluminum-air origami fuel cell with ink-jet printed custom-porosity cathode. Energy, 2021, 224, 120017.	8.8	8
101	Rapid Inkjet-Printed Miniaturized Interdigitated Electrodes for Electrochemical Sensing of Nitrite and Taste Stimuli. Micromachines, 2021, 12, 1037.	2.9	8
102	Laser-induced graphene ablated polymeric microfluidic device with interdigital electrodes for taste sensing application. Sensors and Actuators A: Physical, 2022, 333, 113301.	4.1	8
103	What ails the photovoltaic performance in single-layered unpoled BFO? – The role of oxygen annealing in improving the photovoltaic efficiency. Solar Energy, 2022, 236, 822-831.	6.1	8
104	Fabrication of micro-optical/microfluidic biochips. , 2003, , .		7
105	Development of Membraneless Paper-pencil Microfluidic Hydrazine Fuel Cell. Electroanalysis, 2020, 32, 2581-2588.	2.9	7
106	Miniaturized Platform With Nanocomposite Optimized Pencil Electrodes for Selective Non-Interfering Electrochemical Sensing. IEEE Nanotechnology Magazine, 2020, 19, 575-578.	2.0	7
107	Direct Electron Transfer based Microfluidic Glucose Biofuel cell with CO2 Laser ablated Bioelectrodes and Microchannel. IEEE Transactions on Nanobioscience, 2021, PP, 1-1.	3.3	7
108	Investigation of Silicon Solar Cells under Submerged Conditions with the Influence of Various Parameters: A Comparative Study. Energy Technology, 2021, 9, 2100018.	3.8	7



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109	Crude black pepper phytochemical 3D printed cell based miniaturized hydrazine electrochemical sensing platform. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114761.	3.8	6
110	Parametric Performance Investigation on Membraneless Microfluidic Paper Fuel Cell with Graphite Composed Pencil Stoke Electrodes. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 177-187.	2.2	6
111	Submerged solar energy harvesting using ferroelectric Ti-doped BFO based heterojunction solar cells. <i>International Journal of Energy Research</i> , 2021, 45, 20400-20412.	4.5	6
112	Experimental studies on droplet characteristics in a microfluidic flow focusing droplet generator: effect of continuous phase on droplet encapsulation. <i>European Physical Journal E</i> , 2021, 44, 108.	1.6	6
113	Extensive Enhancement in Charge Collection Efficiency of Ferroelectric Cr-Doped BFO-Based Solar Cells by Using TiO <sub>2</sub> Nanotube Arrays. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 1278-1284.	2.5	6
114	Microfluidic non-enzymatic biofuel cell integrated with electrodeposited metallic catalysts on a paper based platform. <i>Journal of Power Sources</i> , 2021, 510, 230405.	7.8	6
115	Study of Submerged Mono-and Poly-Crystalline Silicon Solar Cells with Split Spectral Ranges Using Optical Filters. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 075005.	1.8	6
116	First report on graphene oxide free, ultrafast fabrication of reduced graphene oxide on paper via visible light laser irradiation. <i>Diamond and Related Materials</i> , 2021, 120, 108680.	3.9	6
117	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
118	Broadband terahertz characterization of graphene oxide films fabricated on flexible substrates. <i>Optical Materials</i> , 2022, 125, 112045.	3.6	6
119	Portable Chemiluminescence Detection Platform and Its Application in Creatinine Detection. <i>IEEE Sensors Journal</i> , 2022, 22, 7177-7184.	4.7	6
120	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
121	Laser Ablated Reduced Graphene Oxide on Paper to Realize Single Electrode Electrochemiluminescence Standalone Miniplatform Integrated With a Smartphone. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	4.7	6
122	Modeling the performance of enzymatic glucose fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2017, 801, 354-359.	3.8	5
123	Fully Assembled Membraneless Glucose Biofuel Cell With MWCNT Modified Pencil Graphite Leads as Novel Bioelectrodes. <i>IEEE Transactions on Nanobioscience</i> , 2019, 18, 170-175.	3.3	5
124	Development of Miniaturized Interdigitated Electrode Sensors and Their Application in Taste Sensing. <i>ECS Transactions</i> , 2020, 98, 49-56.	0.5	5
125	Optical detection system for biochips using plastic fiber optics. <i>Review of Scientific Instruments</i> , 2003, 74, 4145-4149.	1.3	4
126	Computational Analysis of a Microfluidic Viscometer and Its Application in the Rapid and Automated Measurement of Biodiesel Blending Under Pressure Driven Flow. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 2311-2317.	0.4	4



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127	Amperometric Automation and Optimization Paper Microfluidic Viscometer. , 2019, 3, 1-4.		4
128	Electrochemical Mini-Platform With Thread- Based Electrodes for Interference Free Arsenic Detection. IEEE Transactions on Nanobioscience, 2022, 21, 117-124.	3.3	4
129	Leveraging 3-D Printer With 2.8-W Blue Laser Diode to Form Laser-Induced Graphene for Microfluidic Fuel Cell and Electrochemical Sensor. IEEE Transactions on Electron Devices, 2022, 69, 1333-1340.	3.0	4
130	Ink-jet-printed CuO nanoparticle-enhanced miniaturized paper-based electrochemical platform for hypochlorite sensing. Applied Nanoscience (Switzerland), 2023, 13, 1855-1861.	3.1	4
131	Laser-induced graphene-based miniaturized, flexible, non-volatile resistive switching memory devices. Journal of Materials Research, 2022, 37, 3976-3987.	2.6	4
132	Biochips with integrated optics and fluidics. , 2003, 5062, 873.		3
133	Optimization of Carbon Cloth Bioelectrodes for Enzyme-based Biofuel cell for Wearable Bioelectronics. , 2020, , .		3
134	Direct UV laser writing system to photolithographically fabricate optimal microfluidic geometries: Experimental investigations. Materials Today: Proceedings, 2020, 28, 799-803.	1.8	3
135	Development of Completely Automated Poly Potential Portable Potentiostat. ECS Journal of Solid State Science and Technology, 2021, 10, 027001.	1.8	3
136	Stereolithographic 3D Printed Microfluidic Viscometer for Rapid Detection of Automobile Fuel Adulteration. Sensor Letters, 2017, 15, 545-551.	0.4	3
137	Paper-based optimized chemical fuel cell with laser-scribed graphene electrodes for energy harvesting. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	3
138	Body-worn enzymatic biofuel cell with automated pencil drawn bioelectrodes for energy harvesting from human sweat. Journal of Micromechanics and Microengineering, 2022, 32, 044002.	2.6	3
139	Rapid, sensitive and specific electrochemical detection of E. coli using graphitized mesoporous carbon modified electrodes. Sensors and Actuators A: Physical, 2022, 338, 113483.	4.1	3
140	Graphenized Papertronic Devices using Blue Laser ablated Polyimide Resin Paper. , 2021, , .		3
141	Modified Ultra Micro-Carbon Electrode for Efficient Ammonia Sensing for Water Quality Assessment. IEEE Transactions on Nanobioscience, 2023, 22, 301-307.	3.3	3
142	Laser-induced Flexible Graphene Bioelectrodes for Enzymatic Biofuel Cell. , 2019, , .		2
143	A Study on the effect of Cr doping on the Structural, Optical and Photovoltaic Properties of BFO based Heterostructures. , 2021, , .		2
144	Electro-Microfluidic Viscometer with Integrated Microcontroller and Pumping System for Point-of-Care Biosensing Applications. IEEE Instrumentation and Measurement Magazine, 2021, 24, 23-28.	1.6	2

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145	Single microfluidic fuel cell with three fuels “ formic acid, glucose and microbes: A comparative performance investigation. <i>Journal of Electrochemical Science and Engineering</i> , 2021, 11, 306-316.	3.5	2
146	Miniaturized Disposable Buckypaper-Polymer Substrate Based Electrochemical Purine Sensing Platform. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 101009.	1.8	2
147	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
148	Patch-Type Wearable Enzymatic Lactate Biofuel Cell With Carbon Cloth Bioelectrodes for Energy Harvesting From Human Sweat. , 2022, 1, 32-38.		2
149	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
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