

Sushmee Badhulika

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148
papers

3,401
citations

32
h-index

50
g-index

155
ext. papers

4,427
ext. citations

5.1
avg. IF

6.83
L-index

#	Paper	IF	Citations
148	Low-density, stretchable, adhesive PVDF-polypyrrole reinforced gelatin based organohydrogel for UV photodetection, tactile and strain sensing applications. <i>Materials Research Bulletin</i> , 2022 , 150, 111775-1	5.1	2
147	Effect of pH and activation on macroporous carbon derived from cocoa-pods for high performance aqueous supercapacitor application. <i>Materials Chemistry and Physics</i> , 2022 , 276, 125399	4.4	1
146	Lead-free PDMS/PPy based low-cost wearable piezoelectric nanogenerator for self-powered pulse pressure sensor application. <i>Materials Research Bulletin</i> , 2022 , 111815	5.1	1
145	Multilayered Piezoelectric Nanogenerator Based on Lead-Free Poly(vinylidene fluoride)-(0.67BiFeO ₃ -0.33BaTiO ₃) Electrospun Nanofiber Mats for Fast Charging of Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022 , 5, 2993-3003	6.1	3
144	ZnO nano-structured based devices for chemical and optical sensing applications. <i>Sensors and Actuators Reports</i> , 2022 , 100098	4.7	2
143	Stripping voltammetry and chemometrics assisted ultra-selective, simultaneous detection of trace amounts of heavy metal ions in aqua and blood serum samples. <i>Sensors and Actuators Reports</i> , 2022 , 100097	4.7	0
142	An ultra high performance, lead-free BiWO ₃ :P(VDF-TrFE)-based triboelectric nanogenerator for self-powered sensors and smart electronic applications.. <i>Materials Horizons</i> , 2021 ,	14.4	6
141	. <i>ACS Applied Energy Materials</i> , 2021 , 4, 12593-12603	6.1	7
140	A non-noble, low cost, multicomponent electrocatalyst based on nickel oxide decorated AC nanosheets and PPy nanowires for the direct methanol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 3099-3099	6.7	2
139	3D, large-area NiCoO microflowers as a highly stable substrate for rapid and trace level detection of flutamide in biofluids via surface-enhanced Raman scattering (SERS). <i>Mikrochimica Acta</i> , 2021 , 188, 371	5.8	2
138	BiS/PVDF/PPy-Based Freestanding, Wearable, Transient Nanomembrane for Ultrasensitive Pressure, Strain, and Temperature Sensing.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 14-23	4.1	21
137	Record-High Responsivity and Detectivity of a Flexible Deep-Ultraviolet Photodetector Based on Solid State-Assisted Synthesized hBN Nanosheets. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1162-1169	4	13
136	Papertronics: Hand-Written MoS ₂ on Paper Based Highly Sensitive and Recoverable Pressure and Strain Sensors. <i>IEEE Sensors Journal</i> , 2021 , 21, 8943-8949	4	5
135	Silica embedded carbon nanosheets derived from biomass acorn cupule for non-enzymatic, label-free, and wide range detection of Bacid glycoprotein in biofluids. <i>Analytica Chimica Acta</i> , 2021 , 1169, 338598	6.6	1
134	Vertically Aligned Few-Layer Crumpled MoS ₂ Hybrid Nanostructure on Porous Ni Foam toward Promising Binder-Free Methanol Electro-Oxidation Application. <i>Energy & Fuels</i> , 2021 , 35, 10169-10180	4.1	5
133	Hierarchical Architected Dahlia Flower-Like NiCo ₂ O ₄ /NiCoSe ₂ as a Bifunctional Electrode for High-Energy Supercapacitor and Methanol Fuel Cell Application. <i>Energy & Fuels</i> , 2021 , 35, 9646-9659	4.1	14
132	From onion skin waste to multi-heteroatom self-doped highly wrinkled porous carbon nanosheets for high-performance supercapacitor device. <i>Journal of Energy Storage</i> , 2021 , 38, 102533	7.8	12

131	Highly Stable NiCoZn Ternary Mixed-Metal-Oxide Nanorods as a Low-Cost, Non-Noble Electrocatalyst for Methanol Electro-Oxidation in Alkaline Medium. <i>Energy & Fuels</i> , 2021 , 35, 12507-12515 ³	4.1	12
130	A Flexible Self-Powered UV Photodetector and Optical UV Filter Based on Bi ₂ O ₃ /SnO ₂ Quantum Dots Schottky Heterojunction. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100373	4.6	12
129	One-Pot Synthesis of rGO Supported Nb ₂ O ₅ Nanospheres for Ultra-Selective Sensing of Bisphenol a and Hydrazine in Water Samples. <i>IEEE Sensors Journal</i> , 2021 , 21, 4152-4159	4	1
128	Facile synthesis of biomass-derived sulfonated carbon microspheres and nanosheets for the electrochemical detection of glutathione in biological samples. <i>Materials Letters</i> , 2021 , 282, 128683	3.3	5
127	Ultra-Selective and Wide Range Detection of D-Mannitol in Human Blood Samples via Differential Pulse Voltammetry Technique Using MgAl ₂ O ₄ Perovskite Modified Electrode. <i>IEEE Sensors Journal</i> , 2021 , 21, 5736-5742	4	1
126	Highly Sensitive Electrochemical Impedance- Based Biosensor for Label-Free and Wide Range Detection of Fibrinogen Using Hydrothermally Grown AlFeO ₃ Nanospheres Modified Electrode. <i>IEEE Sensors Journal</i> , 2021 , 21, 4160-4166	4	2
125	N-Doped carbon as the anode and ZnCo ₂ O ₄ /N-doped carbon nanocomposite as the cathode for high-performance asymmetric supercapacitor application. <i>New Journal of Chemistry</i> , 2021 , 45, 9550-9560 ^{3.6}	3.6	3
124	Bio-inspired uniform flow microfluidic sensor platform for multi-analyte sensing: a simulation-based outflow and injection study. <i>Microfluidics and Nanofluidics</i> , 2021 , 25, 1	2.8	0
123	One-pot hydrothermal synthesis of NiCoZn a ternary mixed metal oxide nanorod based electrochemical sensor for trace level recognition of dopamine in biofluids. <i>Materials Letters</i> , 2021 , 298, 130044	3.3	2
122	Divulging the electrochemical hydrogen storage of ternary BNP-doped carbon derived from biomass scaled to a pouch cell supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 35149-35160 ^{6.7}	6.7	2
121	Three-dimensional CoSe ₂ nanoparticles/PANI films composite via co-electrodeposition as a binder-free and a non-noble metal catalyst alternative for methanol oxidation application. <i>Materials Chemistry and Physics</i> , 2021 , 273, 125118	4.4	0
120	Ultra-low cost, smart sensor based on pyrite FeS ₂ on cellulose paper for the determination of vital plant hormone methyl jasmonate. <i>Engineering Research Express</i> , 2020 , 2, 025020	0.9	3
119	Low Cost, Flexible, Perovskite BaTiO ₃ Nanofibers-Based p-n Homojunction for Multifunctional Sensing of Physical and Chemical Stimuli. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000568	4.6	13
118	Facile sonochemical assisted synthesis of a hybrid red-black phosphorus/sulfonated porous carbon composite for high-performance supercapacitors. <i>Chemical Communications</i> , 2020 , 56, 7096-7099	5.8	10
117	X (metal: Al, Cu, Sn, Ti)-functionalized tunable 2D-MoS nanostructure assembled biosensor arrays for qualitative and quantitative analysis of vital neurological drugs. <i>Nanoscale</i> , 2020 , 12, 15336-15347	7.7	11
116	Self-Poled hBN-PVDF Nanofiber Mat-Based Low-Cost, Ultrahigh-Performance Piezoelectric Nanogenerator for Biomechanical Energy Harvesting. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1970-1980 ⁴	4	24
115	Reusable, few-layered-MoS ₂ nanosheets/graphene hybrid on cellulose paper for superior adsorption of methylene blue dye. <i>New Journal of Chemistry</i> , 2020 , 44, 5489-5500	3.6	9
114	Simultaneous sensing of copper, lead, cadmium and mercury traces in human blood serum using orthorhombic phase aluminium ferrite. <i>Materials Science and Engineering C</i> , 2020 , 112, 110865	8.3	10

113	An Fe-doped ZnO/BiVO heterostructure-based large area, flexible, high-performance broadband photodetector with an ultrahigh quantum yield. <i>Nanoscale</i> , 2020 , 12, 9152-9161	7.7	21
112	AI/ML-Enabled 2-D - RuS ₂ Nanomaterial-Based Multifunctional, Low Cost, Wearable Sensor Platform for Non-Invasive Point of Care Diagnostics. <i>IEEE Sensors Journal</i> , 2020 , 20, 8437-8444	4	11
111	Ultra-selective, trace level detection of As ³⁺ ions in blood samples using PANI coated BiVO modified SPCE via differential pulse anode stripping voltammetry. <i>Materials Science and Engineering C</i> , 2020 , 111, 110806	8.3	14
110	One Pot Hydrothermal Synthesis of Large Area Nano Cube Like ZnSnO ₃ Perovskite for Simultaneous Sensing of Uric Acid and Dopamine Using Differential Pulse Voltammetry. <i>IEEE Sensors Journal</i> , 2020 , 20, 13212-13219	4	2
109	Surface functionalized Bi ₂ O ₃ nanofibers based flexible, field-effect transistor-biosensor (BioFET) for rapid, label-free detection of serotonin in biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128540	8.5	14
108	Green synthesis of nitrogen, sulfur-co-doped worm-like hierarchical porous carbon derived from ginger for outstanding supercapacitor performance. <i>Carbon</i> , 2020 , 168, 209-219	10.4	94
107	Recent advancements in fabrication of nanomaterial based biosensors for diagnosis of ovarian cancer: a comprehensive review. <i>Mikrochimica Acta</i> , 2020 , 187, 181	5.8	22
106	NiO nanofibers interspersed sponge based low cost, multifunctional platform for broadband UV protection, ultrasensitive strain and robust finger-tip skin inspired pressure sensor. <i>Chemical Engineering Journal</i> , 2020 , 389, 124415	14.7	27
105	Reusable, Free-Standing MoS ₂ /rGO/Cu ₂ O Ternary Composite Films for Fast and Highly Efficient Sunlight Driven Photocatalytic Degradation. <i>ChemistrySelect</i> , 2020 , 5, 1997-2007	1.8	5
104	Thermal decomposition assisted one-step synthesis of high surface area NiCoP nanospheres for simultaneous sensing of Lead, Mercury and Cadmium ions in groundwater samples. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 861, 113937	4.1	6
103	Measurements and correlation of diffusion coefficients of ibuprofen in both liquid and supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2020 , 159, 104776	4.2	4
102	Three-dimensional nitrogen rich bubbled porous carbon sponge for supercapacitor & pressure sensing applications. <i>International Journal of Energy Research</i> , 2020 , 44, 7242-7253	4.5	12
101	Two-Dimensional Metallic NiSe Nanoclusters-Based Low-Cost, Flexible, Amperometric Sensor for Detection of Neurological Drug Carbamazepine in Human Sweat Samples. <i>Frontiers in Chemistry</i> , 2020 , 8, 337	5	3
100	One-step solid-state reaction synthesis of NaFeO ₂ nanoparticle as high capacity cathode material for sodium ion batteries. <i>Materials Letters</i> , 2020 , 270, 127739	3.3	5
99	Polyvinylidene Fluoride/ZnSnO ₃ Nanocube/Co ₃ O ₄ Nanoparticle Thermoplastic Composites for Ultrasound-Assisted Piezo-Catalytic Dye Degradation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4777-4787	5.6	22
98	One-step solvothermal synthesis of nanoflake-nanorod WS hybrid for non-enzymatic detection of uric acid and quercetin in blood serum. <i>Materials Science and Engineering C</i> , 2020 , 107, 110217	8.3	27
97	Strain engineered biocompatible h-WO nanofibers based highly selective and sensitive chemiresistive platform for detection of Catechol in blood sample. <i>Materials Science and Engineering C</i> , 2020 , 108, 110365	8.3	21
96	Facile synthesis of large area pebble-like NaFeO perovskite for simultaneous sensing of dopamine, uric acid, xanthine and hypoxanthine in human blood. <i>Materials Science and Engineering C</i> , 2020 , 109, 110631	8.3	26

95	Direct growth of FeS ₂ on paper: A flexible, multifunctional platform for ultra-low cost, low power memristor and wearable non-contact breath sensor for activity detection. <i>Materials Science in Semiconductor Processing</i> , 2020 , 108, 104910	4.3	11
94	Effect of self-doped heteroatoms on the performance of biomass-derived carbon for supercapacitor applications. <i>Journal of Power Sources</i> , 2020 , 480, 228830	8.9	121
93	Highly selective trace level detection of Atrazine in human blood samples using lead-free double perovskite Al ₂ NiCoO ₅ modified electrode via differential pulse voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128792	8.5	8
92	Biconcave Bi ₂ WO ₆ Nanoparticles for UV Light-Activated Detection of Nicotine in Human Sweat and Cigarette Samples. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12250-12259	5.6	4
91	Sulfonated porous carbon nanosheets derived from oak nutshell based high-performance supercapacitor for powering electronic devices. <i>Renewable Energy</i> , 2020 , 161, 173-183	8.1	44
90	Facile Synthesis of Highly Porous N-Doped Carbon Nanosheets with Silica Nanoparticles for Ultrahigh Capacitance Supercapacitors. <i>Energy & Fuels</i> , 2020 , 34, 11508-11518	4.1	12
89	Label-free wide range electrochemical detection of β -carotene using solid state assisted synthesis of hexagonal boron nitride nanosheets. <i>New Journal of Chemistry</i> , 2020 , 44, 15919-15927	3.6	1
88	Polyaniline Sheathed Black Phosphorous: A Novel, Advanced Platform for Electrochemical Sensing Applications. <i>Electroanalysis</i> , 2020 , 32, 238-247	3	9
87	2D - SnSe ₂ nanoflakes on paper with 1D - NiO gate insulator based MISFET as multifunctional NIR photo switch and flexible temperature sensor. <i>Materials Science in Semiconductor Processing</i> , 2020 , 105, 104738	4.3	28
86	Facile Fabrication of P(Electrodeposition)/N(Solvothermal) 2D-WS ₂ -Homojunction Based High Performance Photo Responsive, Strain Modulated Piezo-Phototronic Diode. <i>ChemNanoMat</i> , 2019 , 5, 1521-1530	3.5	18
85	V ₂ O ₅ Nanosheets for Flexible Memristors and Broadband Photodetectors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 937-947	5.6	37
84	Functionalized water soluble nanomaterials and their applications in wirelessly destructible programmed flexible transient photodetectors. <i>Materials Science in Semiconductor Processing</i> , 2019 , 93, 324-330	4.3	6
83	Scalable, large-area synthesis of heteroatom-doped few-layer graphene-like microporous carbon nanosheets from biomass for high-capacitance supercapacitors. <i>New Journal of Chemistry</i> , 2019 , 43, 1186-1194	3.6	54
82	Direct Growth of Black Phosphorus (p-Type) on a Flexible Substrate with Dual Role of Two-Dimensional ZnO (n-Type) as Effective Passivation and Enabling Highly Stable Broadband Photodetection. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1076-1083	4	8
81	A ruthenium(IV) disulfide based non-enzymatic sensor for selective and sensitive amperometric determination of dopamine. <i>Mikrochimica Acta</i> , 2019 , 186, 480	5.8	19
80	Large area, one step synthesis of NiSe films on cellulose paper for glucose monitoring in bio-mimicking samples for clinical diagnostics. <i>Nanotechnology</i> , 2019 , 30, 355502	3.4	9
79	Ultra-low Cost, Large Area Graphene/MoS ₂ -Based Piezotronic Memristor on Paper: A Systematic Study for Both Direct Current and Alternating Current Inputs. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 883-891	4	13
78	Monitoring of physiological body signals and human activity based on ultra-sensitive tactile sensor and artificial electronic skin by direct growth of ZnSnO ₃ on silica cloth. <i>Materials Science in Semiconductor Processing</i> , 2019 , 99, 125-133	4.3	6

77	Template-cum-catalysis free synthesis of MnO ₂ nanorods-hierarchical MoS ₂ microspheres composite for ultra-sensitive and selective determination of nitrite. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 26-34	5.7	20
76	Direct, One-Step Growth of NiSe ₂ on Cellulose Paper: A Low-Cost, Flexible, and Wearable with Smartphone Enabled Multifunctional Sensing Platform for Customized Noninvasive Personal Healthcare Monitoring. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 558-568	4	48
75	Wireless smartphone-assisted personal healthcare monitoring system using a MoS ₂ -based flexible, wearable and ultra-low-cost functional sensor. <i>Flexible and Printed Electronics</i> , 2019 , 4, 025003	3.1	9
74	Single step grown MoS on pencil graphite as an electrochemical sensor for guanine and adenine: A novel and low cost electrode for DNA studies. <i>Biosensors and Bioelectronics</i> , 2019 , 124-125, 122-128	11.8	24
73	Single Step Synthesis of MoSe ₂ /MoO ₃ Heterostructure for Highly Sensitive Amperometric Detection of Nitrite in Water Samples of Industrial Areas. <i>Electroanalysis</i> , 2019 , 31, 2410-2416	3	6
72	Wirelessly destructible MgO-PVP-Graphene composite based flexible transient memristor for security applications. <i>Materials Science in Semiconductor Processing</i> , 2019 , 104, 104673	4.3	22
71	Low cost, flexible and disposable SnSe ₂ based photoresponsive ammonia sensor for detection of ammonia in urine samples. <i>Sensors and Actuators B: Chemical</i> , 2019 , 297, 126725	8.5	32
70	FeS ₂ Grown Pencil Graphite as an In-expensive and Non-enzymatic Sensor for Sensitive Detection of Uric Acid in Non-invasive Samples. <i>Electroanalysis</i> , 2019 , 31, 2397-2403	3	12
69	A facile, solid-state reaction assisted synthesis of a berry-like NaNbO ₃ perovskite structure for binder-free, highly selective sensing of dopamine in blood samples. <i>New Journal of Chemistry</i> , 2019 , 43, 11994-12003	3.6	30
68	Facile one-pot synthesis of hollow NiCoP nanospheres via thermal decomposition technique and its free-standing carbon composite for supercapacitor application. <i>Journal of Energy Storage</i> , 2019 , 25, 100893	7.8	28
67	The retention factors and partial molar volumes of ibuprofen at infinite dilution in supercritical carbon dioxide at T= (308.15, 313.15, 323.15, 333.15, 343.15 and 353.15) K. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111849	6	0
66	Selective in-situ derivatization of intrinsic nickel to nickel hexacyanoferrate on carbon nanotube and its application for electrochemical sensing of hydrazine. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 837, 60-66	4.1	17
65	Cuprous oxide nanocubes decorated reduced graphene oxide nanosheets embedded in chitosan matrix: A versatile electrode material for stable supercapacitor and sensing applications. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 834, 187-195	4.1	24
64	Controlled synthesis of platinum nanoflowers supported on carbon quantum dots as a highly effective catalyst for methanol electro-oxidation. <i>Surface and Coatings Technology</i> , 2019 , 360, 400-408	4.4	22
63	Few layered MoS grown on pencil graphite: a unique single-step approach to fabricate economical, binder-free electrode for supercapacitor applications. <i>Nanotechnology</i> , 2019 , 30, 035402	3.4	16
62	MoS ₂ based ultra-low-cost, flexible, non-enzymatic and non-invasive electrochemical sensor for highly selective detection of Uric acid in human urine samples. <i>Sensors and Actuators B: Chemical</i> , 2019 , 279, 53-60	8.5	108
61	Impact of intrinsic iron on electrochemical oxidation of pencil graphite and its application as supercapacitors. <i>Electrochimica Acta</i> , 2018 , 269, 274-281	6.7	17
60	Tea quality testing using 6B pencil lead as an electrochemical sensor. <i>Analytical Methods</i> , 2018 , 10, 2327-2336	3.23	20

59	Ultra-Sensitive Non-Enzymatic Ethanol Sensor Based on Reduced Graphene Oxide-Zinc Oxide Composite Modified Electrode. <i>IEEE Sensors Journal</i> , 2018 , 18, 1844-1848	4	20
58	Flexible, Disposable Cellulose-Paper-Based MoS/CuS Hybrid for Wireless Environmental Monitoring and Multifunctional Sensing of Chemical Stimuli. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9048-9059	8.5	57
57	Flexible Substrate Based Few Layer MoS ₂ Electrode for Passive Electronic Devices and Interactive Frequency Modulation Based on Human Motion. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 338-344	2.6	9
56	2D MoS ₂ -Carbon quantum dot hybrid based large area, flexible UV-Vis-NIR photodetector on paper substrate. <i>Applied Materials Today</i> , 2018 , 10, 106-114	6.6	63
55	Direct, large area growth of few-layered MoS ₂ nanostructures on various flexible substrates: growth kinetics and its effect on photodetection studies. <i>Flexible and Printed Electronics</i> , 2018 , 3, 015002	3.1	27
54	Facile synthesis of three-dimensional platinum nanoflowers on reduced graphene oxide-Tin oxide composite: An ultra-high performance catalyst for methanol electro-oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 820, 9-17	4.1	15
53	Wireless, Smart, Human Motion Monitoring Using Solution Processed Fabrication of Graphene/MoS ₂ Transistors on Paper. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700388	6.4	26
52	Facile green synthesis of reduced graphene oxide/tin oxide composite for highly selective and ultra-sensitive detection of ascorbic acid. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 816, 30-37	4.1	52
51	Bimetallic Pt-Pd nanostructures supported on MoS as an ultra-high performance electrocatalyst for methanol oxidation and nonenzymatic determination of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2018 , 185, 399	5.8	30
50	Ultrathin graphene-like 2D porous carbon nanosheets and its excellent capacitance retention for supercapacitor. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 257-266	6.3	49
49	Paper-based potentiometric pH sensor using carbon electrode drawn by pencil. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 04FM08	1.4	16
48	A Novel Biomass Derived Carbon Quantum Dots for Highly Sensitive and Selective Detection of Hydrazine. <i>Electroanalysis</i> , 2018 , 30, 2228-2232	3	23
47	Template-Assisted Electrospinning of Bubbled Carbon Nanofibers as Binder-Free Electrodes for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2018 , 5, 531-539	4.3	25
46	Facile in-situ preparation of few-layered reduced graphene oxide-Niobium pentoxide composite for non-enzymatic glucose monitoring 2018 ,		3
45	Facile synthesis of three-dimensional platinum nanoflowers decorated reduced graphene oxide: An ultra-high performance electro-catalyst for direct methanol fuel cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018 , 231, 115-120	3.1	16
44	Few layer MoS ₂ and in situ poled PVDF nanofibers on low cost paper substrate as high performance piezo-triboelectric hybrid nanogenerator: Energy harvesting from handwriting and human touch. <i>Applied Materials Today</i> , 2018 , 13, 91-99	6.6	54
43	Disposable, efficient and highly selective electrochemical sensor based on Cadmium oxide nanoparticles decorated screen-printed carbon electrode for ascorbic acid determination in fruit juices. <i>Nano Structures Nano Objects</i> , 2018 , 16, 96-103	5.6	22
42	Pyro-phototronic nanogenerator based on flexible 2D ZnO/graphene heterojunction and its application in self-powered near infrared photodetector and active analog frequency modulation. <i>Nanotechnology</i> , 2018 , 29, 325205	3.4	9

41	Sponge and graphene/PVDF /ZnO composite based 3D stacked flexible multi-sensor platform. <i>MRS Advances</i> , 2017 , 2, 341-347	0.7	
40	Eraser-based eco-friendly fabrication of a skin-like large-area matrix of flexible carbon nanotube strain and pressure sensors. <i>Nanotechnology</i> , 2017 , 28, 095501	3.4	33
39	Graphene/Polyaniline composite based ultra-sensitive electrochemical sensor for non-enzymatic detection of urea. <i>Electrochimica Acta</i> , 2017 , 233, 44-51	6.7	89
38	Graphene based biosensors for healthcare. <i>Journal of Materials Research</i> , 2017 , 32, 2905-2929	2.5	28
37	Low temperature, one-pot green synthesis of tailored carbon nanostructures/reduced graphene oxide composites and its investigation for supercapacitor application. <i>Materials Letters</i> , 2017 , 198, 46-49	3.3	11
36	Flexible substrate based 2D ZnO (n)/graphene (p) rectifying junction as enhanced broadband photodetector using strain modulation. <i>2D Materials</i> , 2017 , 4, 025053	5.9	32
35	Ultra-sensitive phenol sensor based on overcoming surface fouling of reduced graphene oxide-zinc oxide composite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 785, 26-32	4.1	45
34	One step, high yield synthesis of amphiphilic carbon quantum dots derived from chia seeds: a solvatochromic study. <i>New Journal of Chemistry</i> , 2017 , 41, 13130-13139	3.6	50
33	Fabrication of a solution-processed, highly flexible few layer MoS ₂ (n)/CuO (p) piezotronic diode on a paper substrate for an active analog frequency modulator and enhanced broadband photodetector. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11436-11447	7.1	26
32	Binder free platinum nanoparticles decorated graphene-polyaniline composite film for high performance supercapacitor application. <i>Electrochimica Acta</i> , 2017 , 251, 505-512	6.7	28
31	Fabrication of a flexible UV photodetector and disposable photoresponsive uric acid sensor by direct writing of ZnO pencil on paper. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10231-10240	7.1	38
30	Large-Area, Flexible Broadband Photodetector Based on ZnS/MoS ₂ Hybrid on Paper Substrate. <i>Advanced Functional Materials</i> , 2017 , 27, 1701611	15.6	159
29	Strain-modulation-assisted enhanced broadband photodetector based on large-area, flexible, few-layered Gr/MoS on cellulose paper. <i>Nanotechnology</i> , 2017 , 28, 455204	3.4	18
28	Discretely distributed 1D V ₂ O ₅ nanowires over 2D MoS ₂ nanoflakes for an enhanced broadband flexible photodetector covering the ultraviolet to near infrared region. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12728-12736	7.1	35
27	Amperometric pH Sensor Based on Graphene/Polyaniline Composite. <i>IEEE Sensors Journal</i> , 2017 , 17, 5038-5043	4	23
26	Low cost, flexible and biodegradable touch sensor fabricated by solvent-free processing of graphite on cellulose paper. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 857-864	8.5	47
25	Paper based large area Graphene/MoS ₂ visible light photodetector 2017 ,		2
24	Flexible substrate based 2D graphene (p)/ZnO (n) heterojunction architecture as nanodiode rectifier 2016 ,		1

23	UV/ozone assisted local graphene (p)/ZnO(n) heterojunctions as a nanodiode rectifier. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 265101	3	7
22	Solvent-free fabrication of a biodegradable all-carbon paper based field effect transistor for human motion detection through strain sensing. <i>Green Chemistry</i> , 2016 , 18, 3640-3646	10	40
21	Eco-friendly all-carbon paper electronics fabricated by a solvent-free drawing method. <i>Nanotechnology</i> , 2016 , 27, 095206	3.4	15
20	Graphene Hybrid Architectures for Chemical Sensors. <i>Carbon Nanostructures</i> , 2016 , 259-285	0.6	
19	Graphene-based wearable temperature sensor and infrared photodetector on a flexible polyimide substrate. <i>Flexible and Printed Electronics</i> , 2016 , 1, 025006	3.1	96
18	Flexible, eco-friendly and highly sensitive paper antenna based electromechanical sensor for wireless human motion detection and structural health monitoring. <i>Extreme Mechanics Letters</i> , 2016 , 9, 324-330	3.9	32
17	Solvent-free fabrication of paper based all-carbon disposable multifunctional sensors and passive electronic circuits. <i>RSC Advances</i> , 2016 , 6, 95574-95583	3.7	11
16	Solvent-free fabrication of multi-walled carbon nanotube based flexible pressure sensors for ultra-sensitive touch pad and electronic skin applications. <i>RSC Advances</i> , 2016 , 6, 95836-95845	3.7	20
15	Molecular imprinted polymer functionalized carbon nanotube sensors for detection of saccharides. <i>Applied Physics Letters</i> , 2015 , 107, 093107	3.4	10
14	One-step in situ synthesis of single aligned graphene/ZnO nanofiber for UV sensing. <i>RSC Advances</i> , 2015 , 5, 82481-82487	3.7	30
13	Graphene hybrids: synthesis strategies and applications in sensors and sensitized solar cells. <i>Frontiers in Chemistry</i> , 2015 , 3, 38	5	57
12	Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubes-Graphene Hybrid Electrode. <i>Electroanalysis</i> , 2014 , 26, 103-108	3	67
11	Conducting polymer coated single-walled carbon nanotube gas sensors for the detection of volatile organic compounds. <i>Talanta</i> , 2014 , 123, 109-114	6.2	58
10	Poly(3-aminophenylboronic acid)-functionalized carbon nanotubes-based chemiresistive sensors for detection of sugars. <i>Analyst, The</i> , 2014 , 139, 3077-82	5	32
9	Affinity chemiresistor sensor for sugars. <i>Talanta</i> , 2014 , 128, 473-9	6.2	5
8	Label-free chemiresistive biosensor for mercury (II) based on single-walled carbon nanotubes and structure-switching DNA. <i>Applied Physics Letters</i> , 2013 , 102, 13701	3.4	33
7	Graphene nanomesh as highly sensitive chemiresistor gas sensor. <i>Analytical Chemistry</i> , 2012 , 84, 8171-8	7.8	196
6	Single-walled carbon nanotubes chemiresistor aptasensors for small molecules: picomolar level detection of adenosine triphosphate. <i>Chemical Communications</i> , 2011 , 47, 3793-5	5.8	35

5	The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. <i>Carbon</i> , 2011 , 49, 3789-3795	10.4	33
4	Room temperature detection of NO ₂ using InSb nanowire. <i>Applied Physics Letters</i> , 2011 , 99, 033103	3.4	26
3	A low-cost and facile electrochemical sensor for the trace-level recognition of flutamide in biofluids using large-area bimetallic NiCo ₂ O ₄ micro flowers. <i>New Journal of Chemistry</i> ,	3.6	2
2	One-step synthesis of carbon-doped PPy nanoparticles interspersed in 3D porous melamine foam as a high-performance piezoresistive pressure, strain, and breath sensor. <i>Materials Chemistry Frontiers</i> ,	7.8	1
1	A Wearable PVA Film Supported TiO ₂ Nanoparticles Decorated NaNbO ₃ Nanoflakes-Based SERS Sensor for Simultaneous Detection of Metabolites and Biomolecules in Human Sweat Samples. <i>Advanced Materials Interfaces</i> , 2200146	4.6	1