

# Sushmee Badhulika

## List of Publications by Year in descending order

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155  
papers

5,673  
citations

76326

40  
h-index

106344

65  
g-index

155  
all docs

155  
docs citations

155  
times ranked

6196  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.0	11
2	An ultra high performance, lead-free Bi <sub>2</sub> WO <sub>6</sub> :P(VDF-TrFE)-based triboelectric nanogenerator for self-powered sensors and smart electronic applications. <i>Materials Horizons</i> , 2022, 9, 663-674.	12.2	27
3	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> , 2022, 47, 3099-3107.	7.1	23
4	A flexible, rapid response, hybrid inorganic-organic SnSe <sub>2</sub> â€“PEDOT:PSS bulk heterojunction based high-performance broadband photodetector. <i>Materials Chemistry Frontiers</i> , 2022, 6, 341-351.	5.9	18
5	A low-cost and facile electrochemical sensor for the trace-level recognition of flutamide in biofluids using large-area bimetallic NiCo <sub>2</sub> O <sub>4</sub> micro flowers. <i>New Journal of Chemistry</i> , 2022, 46, 3383-3391.	2.8	10
6	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, 111779.	5.2	21
7	Lead-free PDMS/PPy based low-cost wearable piezoelectric nanogenerator for self-powered pulse pressure sensor application. <i>Materials Research Bulletin</i> , 2022, 151, 111815.	5.2	18
8	Multilayered Piezoelectric Nanogenerator Based on Lead-Free Poly(vinylidene fluoride)-Charging of Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 2993-3003.	5.1	26
9	A Wearable PVA Film Supported TiO <sub>2</sub> Nanoparticles Decorated NaNbO <sub>3</sub> Nanoflakes-Based SERS Sensor for Simultaneous Detection of Metabolites and Biomolecules in Human Sweat Samples. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	18
10	Spinel structured MgAl <sub>2</sub> O <sub>4</sub> nanoparticles as a low-cost and stable SERS substrate for rapid simultaneous detection of neurological drugs in biofluids. <i>Ceramics International</i> , 2022, 48, 18667-18675.	4.8	5
11	1D NiOâ€“3D Fe <sub>2</sub> O <sub>3</sub> mixed dimensional heterostructure for fast response flexible broadband photodetector. <i>Nanotechnology</i> , 2022, 33, 235201.	2.6	14
12	ZnO nano-structured based devices for chemical and optical sensing applications. <i>Sensors and Actuators Reports</i> , 2022, 4, 100098.	4.4	33
13	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, 4, 100097.	4.4	10
14	Single Step Synthesis of 2-D Marcasite FeS <sub>2</sub> Micro-Flowers Based Electrochemical Sensor for Simultaneous Detection of Four DNA Bases. <i>IEEE Nanotechnology Magazine</i> , 2022, 21, 374-379.	2.0	11
15	High responsivity self-powered flexible broadband photodetector based on hybrid Selenium-PEDOT:PSS junction. <i>Organic Electronics</i> , 2022, 108, 106586.	2.6	9
16	One-Pot Synthesis of rGO Supported Nb <sub>2</sub> O <sub>5</sub> Nanospheres for Ultra-Selective Sensing of Bisphenol a and Hydrazine in Water Samples. <i>IEEE Sensors Journal</i> , 2021, 21, 4152-4159.	4.7	10
17	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.	2.6	15
18	Ultra-Selective and Wide Range Detection of D-Mannitol in Human Blood Samples via Differential Pulse Voltammetry Technique Using MgAl <sub>2</sub> O <sub>4</sub> Perovskite Modified Electrode. <i>IEEE Sensors Journal</i> , 2021, 21, 5736-5742.	4.7	3

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19	Highly Sensitive Electrochemical Impedance- Based Biosensor for Label-Free and Wide Range Detection of Fibrinogen Using Hydrothermally Grown AlFeO <sub>3</sub> Nanospheres Modified Electrode. IEEE Sensors Journal, 2021, 21, 4160-4166.	4.7	8
20	N-Doped carbon as the anode and ZnCo <sub>2</sub> O <sub>4</sub> /N-doped carbon nanocomposite as the cathode for high-performance asymmetric supercapacitor application. New Journal of Chemistry, 2021, 45, 9550-9560.	2.8	11
21	Record-High Responsivity and Detectivity of a Flexible Deep-Ultraviolet Photodetector Based on Solid State-Assisted Synthesized hBN Nanosheets. ACS Applied Electronic Materials, 2021, 3, 1162-1169.	4.3	31
22	Papertronics: Hand-Written MoS <sub>2</sub> , on Paper Based Highly Sensitive and Recoverable Pressure and Strain Sensors. IEEE Sensors Journal, 2021, 21, 8943-8949.	4.7	13
23	Silica embedded carbon nanosheets derived from biomass acorn cupule for non-enzymatic, label-free, and wide range detection of I± 1-acid glycoprotein in biofluids. Analytica Chimica Acta, 2021, 1169, 338598.	5.4	11
24	Vertically Aligned Few-Layer Crumpled MoS <sub>2</sub> Hybrid Nanostructure on Porous Ni Foam toward Promising Binder-Free Methanol Electro-Oxidation Application. Energy & Fuels, 2021, 35, 10169-10180.	5.1	24
25	Hierarchical Architected Dahlia Flower-Like NiCo <sub>2</sub> O <sub>4</sub> /NiCoSe <sub>2</sub> as a Bifunctional Electrode for High-Energy Supercapacitor and Methanol Fuel Cell Application. Energy & Fuels, 2021, 35, 9646-9659.	5.1	48
26	From onion skin waste to multi-heteroatom self-doped highly wrinkled porous carbon nanosheets for high-performance supercapacitor device. Journal of Energy Storage, 2021, 38, 102533.	8.1	40
27	Highly Stable NiCoZn Ternary Mixed-Metal-Oxide Nanorods as a Low-Cost, Non-Noble Electrocatalyst for Methanol Electro-Oxidation in Alkaline Medium. Energy & Fuels, 2021, 35, 12507-12515.	5.1	21
28	A Flexible Self-Powered UV Photodetector and Optical UV Filter Based on Bi <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> Quantum Dots Schottky Heterojunction. Advanced Materials Interfaces, 2021, 8, 2100373.	3.7	52
29	Bio-inspired uniform flow microfluidic sensor platform for multi-analyte sensing: a simulation-based outflow and injection study. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	3
30	One-pot hydrothermal synthesis of NiCoZn a ternary mixed metal oxide nanorod based electrochemical sensor for trace level recognition of dopamine in biofluids. Materials Letters, 2021, 298, 130044.	2.6	8
31	Divulging the electrochemical hydrogen storage of ternary BNP-doped carbon derived from biomass scaled to a pouch cell supercapacitor. International Journal of Hydrogen Energy, 2021, 46, 35149-35160.	7.1	14
32	Three-dimensional CoSe <sub>2</sub> nanoparticles/PANI films composite via co-electrodeposition as a binder-free and a non-noble metal catalyst alternative for methanol oxidation application. Materials Chemistry and Physics, 2021, 273, 125118.	4.0	7
33	Bi <sub>2</sub> S <sub>3</sub> /PVDF/Ppy-Based Freestanding, Wearable, Transient Nanomembrane for Ultrasensitive Pressure, Strain, and Temperature Sensing. ACS Applied Bio Materials, 2021, 4, 14-23.	4.6	47
34	BiVO <sub>4</sub> nanofiber-based field-effect transistors for detection of epinephrine/adrenaline hormones. Materials Chemistry Frontiers, 2021, 5, 8281-8289.	5.9	7
35	3D, large-area NiCo <sub>2</sub> O <sub>4</sub> microflowers as a highly stable substrate for rapid and trace level detection of flutamide in biofluids via surface-enhanced Raman scattering (SERS). Mikrochimica Acta, 2021, 188, 371.	5.0	9
36	Interface Induced High-Performance Piezoelectric Nanogenerator Based on a Electrospun Three-Phase Composite Nanofiber for Wearable Applications. ACS Applied Energy Materials, 2021, 4, 12593-12603.	5.1	35

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37	Polyaniline Sheathed Black Phosphorous: A Novel, Advanced Platform for Electrochemical Sensing Applications. <i>Electroanalysis</i> , 2020, 32, 238-247.	2.9	13
38	2D - SnSe <sub>2</sub> 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.	4.0	36
39	One-step solvothermal synthesis of nanoflake-nanorod WS <sub>2</sub> hybrid for non-enzymatic detection of uric acid and quercetin in blood serum. <i>Materials Science and Engineering C</i> , 2020, 107, 110217.	7.3	48
40	Strain engineered biocompatible h-WO <sub>3</sub> 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.	7.3	31
41	Facile synthesis of large area pebble-like $\text{Fe}^{2+}$ -NaFeO <sub>2</sub> perovskite for simultaneous sensing of dopamine, uric acid, xanthine and hypoxanthine in human blood. <i>Materials Science and Engineering C</i> , 2020, 109, 110631.	7.3	42
42	Direct growth of FeS <sub>2</sub> 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.	4.0	19
43	Effect of self-doped heteroatoms on the performance of biomass-derived carbon for supercapacitor applications. <i>Journal of Power Sources</i> , 2020, 480, 228830.	7.8	335
44	Highly selective trace level detection of Atrazine in human blood samples using lead-free double perovskite Al <sub>2</sub> NiCoO <sub>5</sub> modified electrode via differential pulse voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128792.	7.8	19
45	Biconcave Bi <sub>2</sub> WO <sub>6</sub> Nanoparticles for UV Light-Activated Detection of Nicotine in Human Sweat and Cigarette Samples. <i>ACS Applied Nano Materials</i> , 2020, 3, 12250-12259.	5.0	12
46	Sulfonated porous carbon nanosheets derived from oak nutshell based high-performance supercapacitor for powering electronic devices. <i>Renewable Energy</i> , 2020, 161, 173-183.	8.9	85
47	Facile Synthesis of Highly Porous N-Doped Carbon Nanosheets with Silica Nanoparticles for Ultrahigh Capacitance Supercapacitors. <i>Energy &amp; Fuels</i> , 2020, 34, 11508-11518.	5.1	24
48	Label-free wide range electrochemical detection of $\beta$ -carotene using solid state assisted synthesis of hexagonal boron nitride nanosheets. <i>New Journal of Chemistry</i> , 2020, 44, 15919-15927.	2.8	7
49	Ultra-low cost, smart sensor based on pyrite FeS <sub>2</sub> on cellulose paper for the determination of vital plant hormone methyl jasmonate. <i>Engineering Research Express</i> , 2020, 2, 025020.	1.6	12
50	Low Cost, Flexible, Perovskite BaTiO <sub>3</sub> Nanofibers-Based p-n Homo Junction for Multifunctional Sensing of Physical and Chemical Stimuli. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000568.	3.7	19
51	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.	4.1	18
52	X (metal: Al, Cu, Sn, Ti)-functionalized tunable 2D-MoS <sub>2</sub> nanostructure assembled biosensor arrays for qualitative and quantitative analysis of vital neurological drugs. <i>Nanoscale</i> , 2020, 12, 15336-15347.	5.6	18
53	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.	4.3	52
54	Reusable, few-layered-MoS <sub>2</sub> nanosheets/graphene hybrid on cellulose paper for superior adsorption of methylene blue dye. <i>New Journal of Chemistry</i> , 2020, 44, 5489-5500.	2.8	27

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55	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.	7.3	20
56	An Fe-doped ZnO/BiVO <sub>4</sub> heterostructure-based large area, flexible, high-performance broadband photodetector with an ultrahigh quantum yield. <i>Nanoscale</i> , 2020, 12, 9152-9161.	5.6	45
57	Al/ML-Enabled 2-D - RuS <sub>2</sub> Nanomaterial-Based Multifunctional, Low Cost, Wearable Sensor Platform for Non-Invasive Point of Care Diagnostics. <i>IEEE Sensors Journal</i> , 2020, 20, 8437-8444.	4.7	17
58	Ultra-selective, trace level detection of As <sup>3+</sup> ions in blood samples using PANI coated BiVO <sub>4</sub> modified SPCE via differential pulse anode stripping voltammetry. <i>Materials Science and Engineering C</i> , 2020, 111, 110806.	7.3	23
59	One Pot Hydrothermal Synthesis of Large Area Nano Cube Like ZnSnO <sub>3</sub> Perovskite for Simultaneous Sensing of Uric Acid and Dopamine Using Differential Pulse Voltammetry. <i>IEEE Sensors Journal</i> , 2020, 20, 13212-13219.	4.7	13
60	Surface functionalized <sup>125</sup> I-Bi <sub>2</sub> O <sub>3</sub> 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.	7.8	28
61	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.	10.3	214
62	Recent advancements in fabrication of nanomaterial based biosensors for diagnosis of ovarian cancer: a comprehensive review. <i>Mikrochimica Acta</i> , 2020, 187, 181.	5.0	34
63	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.	12.7	42
64	Reusable, Free-standing MoS <sub>2</sub> /rGO/Cu <sub>2</sub> O Ternary Composite Films for Fast and Highly Efficient Sunlight Driven Photocatalytic Degradation. <i>ChemistrySelect</i> , 2020, 5, 1997-2007.	1.5	17
65	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.	3.8	7
66	Measurements and correlation of diffusion coefficients of ibuprofen in both liquid and supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2020, 159, 104776.	3.2	11
67	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	16
68	Two-Dimensional Metallic NiSe <sub>2</sub> 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.	3.6	11
69	One-step solid-state reaction synthesis of <sup>125</sup> -NaFeO <sub>2</sub> nanoparticle as high capacity cathode material for sodium ion batteries. <i>Materials Letters</i> , 2020, 270, 127739.	2.6	14
70	Polyvinylidene Fluoride/ZnSnO <sub>3</sub> Nanocube/Co <sub>3</sub> O <sub>4</sub> Nanoparticle Thermoplastic Composites for Ultrasound-Assisted Piezo-Catalytic Dye Degradation. <i>ACS Applied Nano Materials</i> , 2020, 3, 4777-4787.	5.0	44
71	Single step grown MoS <sub>2</sub> 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.	10.1	38
72	Single Step Synthesis of MoSe <sub>2</sub> ~MoO <sub>3</sub> Heterostructure for Highly Sensitive Amperometric Detection of Nitrite in Water Samples of Industrial Areas. <i>Electroanalysis</i> , 2019, 31, 2410-2416.	2.9	15

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73	Wirelessly destructible MgO-PVP-Graphene composite based flexible transient memristor for security applications. <i>Materials Science in Semiconductor Processing</i> , 2019, 104, 104673.	4.0	40
74	Low cost, flexible and disposable SnSe <sub>2</sub> based photoresponsive ammonia sensor for detection of ammonia in urine samples. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126725.	7.8	51
75	FeS <sub>2</sub> Grown Pencil Graphite as an Inexpensive and Non-enzymatic Sensor for Sensitive Detection of Uric Acid in Non-invasive Samples. <i>Electroanalysis</i> , 2019, 31, 2397-2403.	2.9	18
76	A facile, solid-state reaction assisted synthesis of a berry-like NaNbO <sub>3</sub> perovskite structure for binder-free, highly selective sensing of dopamine in blood samples. <i>New Journal of Chemistry</i> , 2019, 43, 11994-12003.	2.8	43
77	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.	8.1	41
78	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.	4.9	1
79	Facile Fabrication of P(Electrodeposition)/N(Solvothermal) 2D WS <sub>2</sub> Homojunction Based High Performance Photo Responsive, Strain Modulated Piezoelectric Phototronic Diode. <i>ChemNanoMat</i> , 2019, 5, 1521-1530.	2.8	22
80	V <sub>2</sub> O <sub>5</sub> Nanosheets for Flexible Memristors and Broadband Photodetectors. <i>ACS Applied Nano Materials</i> , 2019, 2, 937-947.	5.0	66
81	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.	4.0	6
82	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.	2.8	79
83	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.	4.3	14
84	A ruthenium(IV) disulfide based non-enzymatic sensor for selective and sensitive amperometric determination of dopamine. <i>Mikrochimica Acta</i> , 2019, 186, 480.	5.0	32
85	Large area, one step synthesis of NiSe <sub>2</sub> films on cellulose paper for glucose monitoring in bio-mimicking samples for clinical diagnostics. <i>Nanotechnology</i> , 2019, 30, 355502.	2.6	14
86	Ultra-low Cost, Large Area Graphene/MoS <sub>2</sub> -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.	4.3	22
87	Monitoring of physiological body signals and human activity based on ultra-sensitive tactile sensor and artificial electronic skin by direct growth of ZnSnO <sub>3</sub> on silica cloth. <i>Materials Science in Semiconductor Processing</i> , 2019, 99, 125-133.	4.0	12
88	Template-cum-catalysis free synthesis of Î±-MnO <sub>2</sub> nanorods-hierarchical MoS <sub>2</sub> microspheres composite for ultra-sensitive and selective determination of nitrite. <i>Journal of Alloys and Compounds</i> , 2019, 794, 26-34.	5.5	29
89	Direct, One-Step Growth of NiSe <sub>2</sub> 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.	4.3	60
90	Wireless smartphone-assisted personal healthcare monitoring system using a MoS <sub>2</sub> -based flexible, wearable and ultra-low-cost functional sensor. <i>Flexible and Printed Electronics</i> , 2019, 4, 025003.	2.7	9

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91	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.	3.8	22
92	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.	3.8	35
93	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.	4.8	34
94	Few layered MoS <sub>2</sub> grown on pencil graphite: a unique single-step approach to fabricate economical, binder-free electrode for supercapacitor applications. <i>Nanotechnology</i> , 2019, 30, 035402.	2.6	26
95	MoS <sub>2</sub> 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.	7.8	167
96	Impact of intrinsic iron on electrochemical oxidation of pencil graphite and its application as supercapacitors. <i>Electrochimica Acta</i> , 2018, 269, 274-281.	5.2	19
97	Tea quality testing using 6B pencil lead as an electrochemical sensor. <i>Analytical Methods</i> , 2018, 10, 2327-2336.	2.7	32
98	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.	4.7	27
99	Flexible, Disposable Cellulose-Paper-Based MoS <sub>2</sub> /Cu <sub>2</sub> S Hybrid for Wireless Environmental Monitoring and Multifunctional Sensing of Chemical Stimuli. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9048-9059.	8.0	69
100	Flexible Substrate Based Few Layer MoS <sub>2</sub> Electrode for Passive Electronic Devices and Interactive Frequency Modulation Based on Human Motion. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 338-344.	2.0	9
101	2D MoS <sub>2</sub> -carbon quantum dot hybrid based large area, flexible UV-vis-NIR photodetector on paper substrate. <i>Applied Materials Today</i> , 2018, 10, 106-114.	4.3	89
102	Direct, large area growth of few-layered MoS <sub>2</sub> nanostructures on various flexible substrates: growth kinetics and its effect on photodetection studies. <i>Flexible and Printed Electronics</i> , 2018, 3, 015002.	2.7	33
103	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.	3.8	22
104	Wireless, Smart, Human Motion Monitoring Using Solution Processed Fabrication of Graphene-MoS <sub>2</sub> Transistors on Paper. <i>Advanced Electronic Materials</i> , 2018, 4, 1700388.	5.1	30
105	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.	3.8	85
106	Template-Assisted Electrospinning of Bubbled Carbon Nanofibers as Binder-Free Electrodes for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 531-539.	3.4	34
107	Facile in-situ preparation of few-layered reduced graphene oxide - niobium pentoxide composite for non-enzymatic glucose monitoring. , 2018, , .		3
108	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.	3.5	20

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109	Few layer MoS <sub>2</sub> 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.	4.3	86
110	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.	3.5	40
111	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.	2.6	12
112	Bimetallic Pt-Pd nanostructures supported on MoS <sub>2</sub> as an ultra-high performance electrocatalyst for methanol oxidation and nonenzymatic determination of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2018, 185, 399.	5.0	40
113	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.	5.8	79
114	Paper-based potentiometric pH sensor using carbon electrode drawn by pencil. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FM08.	1.5	24
115	A Novel Biomass Derived Carbon Quantum Dots for Highly Sensitive and Selective Detection of Hydrazine. <i>Electroanalysis</i> , 2018, 30, 2228-2232.	2.9	37
116	Sponge and graphene/PVDF /ZnO composite based 3D stacked flexible multi-sensor platform. <i>MRS Advances</i> , 2017, 2, 341-347.	0.9	0
117	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.	2.6	44
118	Graphene-Polyaniline composite based ultra-sensitive electrochemical sensor for non-enzymatic detection of urea. <i>Electrochimica Acta</i> , 2017, 233, 44-51.	5.2	125
119	Graphene based biosensors for healthcare. <i>Journal of Materials Research</i> , 2017, 32, 2905-2929.	2.6	45
120	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.	2.6	14
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