

Sushmee Badhulika

List of Publications by Year in descending order

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155
papers

5,673
citations

76196

40
h-index

106150

65
g-index

155
all docs

155
docs citations

155
times ranked

6196
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of self-doped heteroatoms on the performance of biomass-derived carbon for supercapacitor applications. <i>Journal of Power Sources</i> , 2020, 480, 228830.	4.0	335
2	Large Area, Flexible Broadband Photodetector Based on ZnS ₂ /MoS ₂ Hybrid on Paper Substrate. <i>Advanced Functional Materials</i> , 2017, 27, 1701611.	7.8	237
3	Graphene Nanomesh As Highly Sensitive Chemiresistor Gas Sensor. <i>Analytical Chemistry</i> , 2012, 84, 8171-8178.	3.2	226
4	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.	5.4	214
5	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.	4.0	167
6	Graphene-based wearable temperature sensor and infrared photodetector on a flexible polyimide substrate. <i>Flexible and Printed Electronics</i> , 2016, 1, 025006.	1.5	126
7	Graphene-Polyaniline composite based ultra-sensitive electrochemical sensor for non-enzymatic detection of urea. <i>Electrochimica Acta</i> , 2017, 233, 44-51.	2.6	125
8	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.	2.3	89
9	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.	2.3	86
10	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.	1.9	85
11	Sulfonated porous carbon nanosheets derived from oak nutshell based high-performance supercapacitor for powering electronic devices. <i>Renewable Energy</i> , 2020, 161, 173-183.	4.3	85
12	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.	1.4	80
13	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.	4.0	79
14	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.	2.9	79
15	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.	1.4	79
16	Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubes-Graphene Hybrid Electrode. <i>Electroanalysis</i> , 2014, 26, 103-108.	1.5	76
17	Flexible, Disposable Cellulose-Paper-Based MoS ₂ /Cu ₂ S Hybrid for Wireless Environmental Monitoring and Multifunctional Sensing of Chemical Stimuli. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9048-9059.	4.0	69
18	Graphene hybrids: synthesis strategies and applications in sensors and sensitized solar cells. <i>Frontiers in Chemistry</i> , 2015, 3, 38.	1.8	67

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19	V ₂ O ₅ Nanosheets for Flexible Memristors and Broadband Photodetectors. ACS Applied Nano Materials, 2019, 2, 937-947.	2.4	66
20	Conducting polymer coated single-walled carbon nanotube gas sensors for the detection of volatile organic compounds. Talanta, 2014, 123, 109-114.	2.9	65
21	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. ACS Applied Electronic Materials, 2019, 1, 558-568.	2.0	60
22	Fabrication of a flexible UV photodetector and disposable photoresponsive uric acid sensor by direct writing of ZnO pencil on paper. Journal of Materials Chemistry C, 2017, 5, 10231-10240.	2.7	58
23	Ultra-sensitive phenol sensor based on overcoming surface fouling of reduced graphene oxide-zinc oxide composite electrode. Journal of Electroanalytical Chemistry, 2017, 785, 26-32.	1.9	55
24	Solvent-free fabrication of a biodegradable all-carbon paper based field effect transistor for human motion detection through strain sensing. Green Chemistry, 2016, 18, 3640-3646.	4.6	54
25	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. Journal of Materials Chemistry C, 2017, 5, 12728-12736.	2.7	53
26	Self-Poled hBN-PVDF Nanofiber Mat-Based Low-Cost, Ultrahigh-Performance Piezoelectric Nanogenerator for Biomechanical Energy Harvesting. ACS Applied Electronic Materials, 2020, 2, 1970-1980.	2.0	52
27	A Flexible Self-Powered UV Photodetector and Optical UV Filter Based on Bi ₂ O ₃ /SnO ₂ Quantum Dots Schottky Heterojunction. Advanced Materials Interfaces, 2021, 8, 2100373.	1.9	52
28	Low cost, flexible and disposable SnSe ₂ based photoresponsive ammonia sensor for detection of ammonia in urine samples. Sensors and Actuators B: Chemical, 2019, 297, 126725.	4.0	51
29	One-step solvothermal synthesis of nanoflake-nanorod WS ₂ hybrid for non-enzymatic detection of uric acid and quercetin in blood serum. Materials Science and Engineering C, 2020, 107, 110217.	3.8	48
30	Hierarchical Architected Dahlia Flower-Like NiCo ₂ O ₄ /NiCoSe ₂ as a Bifunctional Electrode for High-Energy Supercapacitor and Methanol Fuel Cell Application. Energy & Fuels, 2021, 35, 9646-9659.	2.5	48
31	Bi ₂ S ₃ /PVDF/Ppy-Based Freestanding, Wearable, Transient Nanomembrane for Ultrasensitive Pressure, Strain, and Temperature Sensing. ACS Applied Bio Materials, 2021, 4, 14-23.	2.3	47
32	Graphene based biosensors for healthcare. Journal of Materials Research, 2017, 32, 2905-2929.	1.2	45
33	An Fe-doped ZnO/BiVO ₄ heterostructure-based large area, flexible, high-performance broadband photodetector with an ultrahigh quantum yield. Nanoscale, 2020, 12, 9152-9161.	2.8	45
34	Eraser-based eco-friendly fabrication of a skin-like large-area matrix of flexible carbon nanotube strain and pressure sensors. Nanotechnology, 2017, 28, 095501.	1.3	44
35	Polyvinylidene Fluoride/ZnSnO ₃ Nanocube/Co ₃ O ₄ Nanoparticle Thermoplastic Composites for Ultrasound-Assisted Piezo-Catalytic Dye Degradation. ACS Applied Nano Materials, 2020, 3, 4777-4787.	2.4	44
36	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. New Journal of Chemistry, 2019, 43, 11994-12003.	1.4	43

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37	Facile synthesis of large area pebble-like NaFeO_2 perovskite for simultaneous sensing of dopamine, uric acid, xanthine and hypoxanthine in human blood. <i>Materials Science and Engineering C</i> , 2020, 109, 110631.	3.8	42
38	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.	6.6	42
39	Flexible substrate based 2D ZnO (n)/graphene (p) rectifying junction as enhanced broadband photodetector using strain modulation. <i>2D Materials</i> , 2017, 4, 025053.	2.0	41
40	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.	3.9	41
41	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.	1.5	40
42	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.	2.0	40
43	Binder free platinum nanoparticles decorated graphene-polyaniline composite film for high performance supercapacitor application. <i>Electrochimica Acta</i> , 2017, 251, 505-512.	2.6	40
44	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.	1.9	40
45	Bimetallic Pt-Pd nanostructures supported on MoS ₂ as an ultra-high performance electrocatalyst for methanol oxidation and nonenzymatic determination of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2018, 185, 399.	2.5	40
46	Wirelessly destructible MgO-PVP-Graphene composite based flexible transient memristor for security applications. <i>Materials Science in Semiconductor Processing</i> , 2019, 104, 104673.	1.9	40
47	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.	3.9	40
48	Poly(3-aminophenylboronic acid)-functionalized carbon nanotubes-based chemiresistive sensors for detection of sugars. <i>Analyst</i> , 2014, 139, 3077-3082.	1.7	38
49	Single step grown MoS ₂ 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.	5.3	38
50	One-step <i>in situ</i> synthesis of single aligned graphene-ZnO nanofiber for UV sensing. <i>RSC Advances</i> , 2015, 5, 82481-82487.	1.7	37
51	A Novel Biomass Derived Carbon Quantum Dots for Highly Sensitive and Selective Detection of Hydrazine. <i>Electroanalysis</i> , 2018, 30, 2228-2232.	1.5	37
52	Single-walled carbon nanotubes chemiresistor aptasensors for small molecules: picomolar level detection of adenosine triphosphate. <i>Chemical Communications</i> , 2011, 47, 3793.	2.2	36
53	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.	1.9	36
54	The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. <i>Carbon</i> , 2011, 49, 3789-3795.	5.4	35

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55	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.	2.7	35
56	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.	1.9	35
57	Interface Induced High-Performance Piezoelectric Nanogenerator Based on a Electrospun Three-Phase Composite Nanofiber for Wearable Applications. <i>ACS Applied Energy Materials</i> , 2021, 4, 12593-12603.	2.5	35
58	Amperometric pH Sensor Based on Graphene-Polyaniline Composite. <i>IEEE Sensors Journal</i> , 2017, 17, 5038-5043.	2.4	34
59	Template-Assisted Electrospinning of Bubbled Carbon Nanofibers as Binder-Free Electrodes for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 531-539.	1.7	34
60	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.	2.2	34
61	Recent advancements in fabrication of nanomaterial based biosensors for diagnosis of ovarian cancer: a comprehensive review. <i>Mikrochimica Acta</i> , 2020, 187, 181.	2.5	34
62	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.	1.5	33
63	ZnO nano-structured based devices for chemical and optical sensing applications. <i>Sensors and Actuators Reports</i> , 2022, 4, 100098.	2.3	33
64	Room temperature detection of NO ₂ using InSb nanowire. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	32
65	Tea quality testing using 6B pencil lead as an electrochemical sensor. <i>Analytical Methods</i> , 2018, 10, 2327-2336.	1.3	32
66	A ruthenium(IV) disulfide based non-enzymatic sensor for selective and sensitive amperometric determination of dopamine. <i>Mikrochimica Acta</i> , 2019, 186, 480.	2.5	32
67	Strain engineered biocompatible h-WO ₃ 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.	3.8	31
68	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.	2.0	31
69	Wireless, Smart, Human Motion Monitoring Using Solution Processed Fabrication of Graphene-MoS ₂ Transistors on Paper. <i>Advanced Electronic Materials</i> , 2018, 4, 1700388.	2.6	30
70	Template-cum-catalysis free synthesis of γ -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.	2.8	29
71	Surface functionalized β -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.	4.0	28
72	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.	2.4	27

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73	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.	1.4	27
74	An ultra high performance, lead-free Bi ₂ WO ₆ :P(VDF-TrFE)-based triboelectric nanogenerator for self-powered sensors and smart electronic applications. <i>Materials Horizons</i> , 2022, 9, 663-674.	6.4	27
75	Few layered MoS ₂ grown on pencil graphite: a unique single-step approach to fabricate economical, binder-free electrode for supercapacitor applications. <i>Nanotechnology</i> , 2019, 30, 035402.	1.3	26
76	Multilayered Piezoelectric Nanogenerator Based on Lead-Free Poly(vinylidene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (fluoride)-(0) Charging of Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 2993-3003.	2.5	26
77	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.	1.7	25
78	Strain-modulation-assisted enhanced broadband photodetector based on large-area, flexible, few-layered Gr/MoS ₂ on cellulose paper. <i>Nanotechnology</i> , 2017, 28, 455204.	1.3	25
79	Paper-based potentiometric pH sensor using carbon electrode drawn by pencil. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FM08.	0.8	24
80	Facile Synthesis of Highly Porous N-Doped Carbon Nanosheets with Silica Nanoparticles for Ultrahigh Capacitance Supercapacitors. <i>Energy & Fuels</i> , 2020, 34, 11508-11518.	2.5	24
81	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.	2.5	24
82	Ultra-selective, trace level detection of As ³⁺ ions in blood samples using PANI coated BiVO ₄ modified SPCE via differential pulse anode stripping voltammetry. <i>Materials Science and Engineering C</i> , 2020, 111, 110806.	3.8	23
83	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.	3.8	23
84	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.	1.9	22
85	Facile Fabrication of P(Electrodeposition)/N(Solvothermal) 2DWS ₂ Homojunction Based High Performance Photo Responsive, Strain Modulated Piezo Phototronic Diode. <i>ChemNanoMat</i> , 2019, 5, 1521-1530.	1.5	22
86	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.	2.0	22
87	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.	1.9	22
88	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.	2.5	21
89	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.	2.7	21
90	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.	1.7	20

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91	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.	3.8	20
92	Solvent-free fabrication of paper based all-carbon disposable multifunctional sensors and passive electronic circuits. <i>RSC Advances</i> , 2016, 6, 95574-95583.	1.7	19
93	Impact of intrinsic iron on electrochemical oxidation of pencil graphite and its application as supercapacitors. <i>Electrochimica Acta</i> , 2018, 269, 274-281.	2.6	19
94	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.	1.9	19
95	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.	4.0	19
96	Low Cost, Flexible, Perovskite BaTiO ₃ Nanofibers-Based p-n Homo Junction for Multifunctional Sensing of Physical and Chemical Stimuli. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000568.	1.9	19
97	Eco-friendly all-carbon paper electronics fabricated by a solvent-free drawing method. <i>Nanotechnology</i> , 2016, 27, 095206.	1.3	18
98	FeS ₂ Grown Pencil Graphite as an Inexpensive and Nonenzymatic Sensor for Sensitive Detection of Uric Acid in Noninvasive Samples. <i>Electroanalysis</i> , 2019, 31, 2397-2403.	1.5	18
99	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.	2.2	18
100	X (metal: Al, Cu, Sn, Ti)-functionalized tunable 2D-MoS ₂ nanostructure assembled biosensor arrays for qualitative and quantitative analysis of vital neurological drugs. <i>Nanoscale</i> , 2020, 12, 15336-15347.	2.8	18
101	A flexible, rapid response, hybrid inorganic-organic SnSe ₂ -PEDOT:PSS bulk heterojunction based high-performance broadband photodetector. <i>Materials Chemistry Frontiers</i> , 2022, 6, 341-351.	3.2	18
102	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.	2.7	18
103	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> , 2022, 9, .	1.9	18
104	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.	2.4	17
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.	0.7	17
106	Three-dimensional nitrogen rich bubbled porous carbon sponge for supercapacitor & pressure sensing applications. <i>International Journal of Energy Research</i> , 2020, 44, 7242-7253.	2.2	16
107	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.	1.5	15
108	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.	1.3	15

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109	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.	1.3	14
110	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.	2.0	14
111	Large area, one step synthesis of NiSe ₂ films on cellulose paper for glucose monitoring in bio-mimicking samples for clinical diagnostics. <i>Nanotechnology</i> , 2019, 30, 355502.	1.3	14
112	One-step solid-state reaction synthesis of Fe^{2+} -NaFeO ₂ nanoparticle as high capacity cathode material for sodium ion batteries. <i>Materials Letters</i> , 2020, 270, 127739.	1.3	14
113	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.	3.8	14
114	1D NiO@3D Fe ₂ O ₃ mixed dimensional heterostructure for fast response flexible broadband photodetector. <i>Nanotechnology</i> , 2022, 33, 235201.	1.3	14
115	Molecular imprinted polymer functionalized carbon nanotube sensors for detection of saccharides. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	13
116	Polyaniline Sheathed Black Phosphorous: A Novel, Advanced Platform for Electrochemical Sensing Applications. <i>Electroanalysis</i> , 2020, 32, 238-247.	1.5	13
117	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.	2.4	13
118	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.	2.4	13
119	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.	1.3	12
120	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.	1.9	12
121	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.	2.4	12
122	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.	0.8	12
123	Measurements and correlation of diffusion coefficients of ibuprofen in both liquid and supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2020, 159, 104776.	1.6	11
124	Two-Dimensional Metallic NiSe ₂ 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.	1.8	11
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.	1.4	11
126	Silica embedded carbon nanosheets derived from biomass acorn cupule for non-enzymatic, label-free, and wide range detection of I^{\pm} 1-acid glycoprotein in biofluids. <i>Analytica Chimica Acta</i> , 2021, 1169, 338598.	2.6	11

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127	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.	2.0	11
128	Single Step Synthesis of 2-D Marcasite FeS ₂ Micro-Flowers Based Electrochemical Sensor for Simultaneous Detection of Four DNA Bases. <i>IEEE Nanotechnology Magazine</i> , 2022, 21, 374-379.	1.1	11
129	UV/ozone assisted local graphene (p)/ZnO(n) heterojunctions as a nanodiode rectifier. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 265101.	1.3	10
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