## Sushmee Badhulika

List of Publications by Year in descending order

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76326 106344 5,673 155 40 65 citations h-index g-index papers 155 155 155 6196 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Effect of self-doped heteroatoms on the performance of biomass-derived carbon for supercapacitor applications. Journal of Power Sources, 2020, 480, 228830.	7.8	335
2	Largeâ€Area, Flexible Broadband Photodetector Based on ZnS–MoS <sub>2</sub> Hybrid on Paper Substrate. Advanced Functional Materials, 2017, 27, 1701611.	14.9	237
3	Graphene Nanomesh As Highly Sensitive Chemiresistor Gas Sensor. Analytical Chemistry, 2012, 84, 8171-8178.	6.5	226
4	Green synthesis of nitrogen, sulfur-co-doped worm-like hierarchical porous carbon derived from ginger for outstanding supercapacitor performance. Carbon, 2020, 168, 209-219.	10.3	214
5	MoS2 based ultra-low-cost, flexible, non-enzymatic and non-invasive electrochemical sensor for highly selective detection of Uric acid in human urine samples. Sensors and Actuators B: Chemical, 2019, 279, 53-60.	7.8	167
6	Graphene-based wearable temperature sensor and infrared photodetector on a flexible polyimide substrate. Flexible and Printed Electronics, 2016, 1, 025006.	2.7	126
7	Graphene–Polyaniline composite based ultra-sensitive electrochemical sensor for non-enzymatic detection of urea. Electrochimica Acta, 2017, 233, 44-51.	5.2	125
8	2D MoS2–carbon quantum dot hybrid based large area, flexible UV–vis–NIR photodetector on paper substrate. Applied Materials Today, 2018, 10, 106-114.	4.3	89
9	Few layer MoS2 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. Applied Materials Today, 2018, 13, 91-99.	4.3	86
10	Facile green synthesis of reduced graphene oxide/tin oxide composite for highly selective and ultra-sensitive detection of ascorbic acid. Journal of Electroanalytical Chemistry, 2018, 816, 30-37.	3.8	85
11	Sulfonated porous carbon nanosheets derived from oak nutshell based high-performance supercapacitor for powering electronic devices. Renewable Energy, 2020, 161, 173-183.	8.9	85
12	One step, high yield synthesis of amphiphilic carbon quantum dots derived from chia seeds: a solvatochromic study. New Journal of Chemistry, 2017, 41, 13130-13139.	2.8	80
13	Low cost, flexible and biodegradable touch sensor fabricated by solvent-free processing of graphite on cellulose paper. Sensors and Actuators B: Chemical, 2017, 242, 857-864.	7.8	79
14	Ultrathin graphene-like 2D porous carbon nanosheets and its excellent capacitance retention for supercapacitor. Journal of Industrial and Engineering Chemistry, 2018, 68, 257-266.	5.8	79
15	Scalable, large-area synthesis of heteroatom-doped few-layer graphene-like microporous carbon nanosheets from biomass for high-capacitance supercapacitors. New Journal of Chemistry, 2019, 43, 1186-1194.	2.8	79
16	Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubesâ€Graphene Hybrid Electrode. Electroanalysis, 2014, 26, 103-108.	2.9	76
17	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. ACS Applied Materials & amp; Interfaces, 2018, 10, 9048-9059.	8.0	69
18	Graphene hybrids: synthesis strategies and applications in sensors and sensitized solar cells. Frontiers in Chemistry, 2015, 3, 38.	3.6	67

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19	V <sub>2</sub> O <sub>5</sub> Nanosheets for Flexible Memristors and Broadband Photodetectors. ACS Applied Nano Materials, 2019, 2, 937-947.	5.0	66
20	Conducting polymer coated single-walled carbon nanotube gas sensors for the detection of volatile organic compounds. Talanta, 2014, 123, 109-114.	5.5	65
21	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. ACS Applied Electronic Materials, 2019, 1, 558-568.	4.3	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.	5.5	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.	3.8	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.	9.0	54
25	Discretely distributed 1D V <sub>2</sub> O <sub>5</sub> nanowires over 2D MoS <sub>2</sub> nanoflakes for an enhanced broadband flexible photodetector covering the ultraviolet to near infrared region. Journal of Materials Chemistry C, 2017, 5, 12728-12736.	5.5	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.	4.3	52
27	A Flexible Selfâ€Powered UV Photodetector and Optical UV Filter Based on βâ€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
28	Low cost, flexible and disposable SnSe2 based photoresponsive ammonia sensor for detection of ammonia in urine samples. Sensors and Actuators B: Chemical, 2019, 297, 126725.	7.8	51
29	One-step solvothermal synthesis of nanoflake-nanorod WS2 hybrid for non-enzymatic detection of uric acid and quercetin in blood serum. Materials Science and Engineering C, 2020, 107, 110217.	7.3	48
30	Hierarchical Architectured 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 & En	5.1	48
31	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
32	Graphene based biosensors for healthcare. Journal of Materials Research, 2017, 32, 2905-2929.	2.6	45
33	An Fe-doped ZnO/BiVO <sub>4</sub> heterostructure-based large area, flexible, high-performance broadband photodetector with an ultrahigh quantum yield. Nanoscale, 2020, 12, 9152-9161.	5.6	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.	2.6	44
35	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. ACS Applied Nano Materials, 2020, 3, 4777-4787.	5.0	44
36	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. New Journal of Chemistry, 2019, 43, 11994-12003.	2.8	43

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37	Facile synthesis of large area pebble-like $\hat{l}^2$ -NaFeO2 perovskite for simultaneous sensing of dopamine, uric acid, xanthine and hypoxanthine in human blood. Materials Science and Engineering C, 2020, 109, 110631.	7.3	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. Chemical Engineering Journal, 2020, 389, 124415.	12.7	42
39	Flexible substrate based 2D ZnO (n)/graphene (p) rectifying junction as enhanced broadband photodetector using strain modulation. 2D Materials, 2017, 4, 025053.	4.4	41
40	Facile one-pot synthesis of hollow NiCoP nanospheres via thermal decomposition technique and its free-standing carbon composite for supercapacitor application. Journal of Energy Storage, 2019, 25, 100893.	8.1	41
41	Label-free chemiresistive biosensor for mercury (II) based on single-walled carbon nanotubes and structure-switching DNA. Applied Physics Letters, 2013, 102, 13701.	3.3	40
42	Flexible, eco-friendly and highly sensitive paper antenna based electromechanical sensor for wireless human motion detection and structural health monitoring. Extreme Mechanics Letters, 2016, 9, 324-330.	4.1	40
43	Binder free platinum nanoparticles decorated graphene-polyaniline composite film for high performance supercapacitor application. Electrochimica Acta, 2017, 251, 505-512.	5.2	40
44	Disposable, efficient and highly selective electrochemical sensor based on Cadmium oxide nanoparticles decorated screen-printed carbon electrodeÂfor ascorbic acid determination in fruit juices. Nano Structures Nano Objects, 2018, 16, 96-103.	3.5	40
45	Bimetallic Pt-Pd nanostructures supported on MoS2 as an ultra-high performance electrocatalyst for methanol oxidation and nonenzymatic determination of hydrogen peroxide. Mikrochimica Acta, 2018, 185, 399.	5.0	40
46	Wirelessly destructible MgO-PVP-Graphene composite based flexible transient memristor for security applications. Materials Science in Semiconductor Processing, 2019, 104, 104673.	4.0	40
47	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
48	Poly(3-aminophenylboronic acid)-functionalized carbon nanotubes-based chemiresistive sensors for detection of sugars. Analyst, The, 2014, 139, 3077-3082.	3.5	38
49	Single step grown MoS2 on pencil graphite as an electrochemical sensor for guanine and adenine: A novel and low cost electrode for DNA studies. Biosensors and Bioelectronics, 2019, 124-125, 122-128.	10.1	38
50	One-step <i>in situ</i> synthesis of single aligned grapheneâ€"ZnO nanofiber for UV sensing. RSC Advances, 2015, 5, 82481-82487.	3.6	37
51	A Novel Biomass Derived Carbon Quantum Dots for Highly Sensitive and Selective Detection of Hydrazine. Electroanalysis, 2018, 30, 2228-2232.	2.9	37
52	Single-walled carbon nanotubes chemiresistor aptasensors for small molecules: picomolar level detection of adenosine triphosphate. Chemical Communications, 2011, 47, 3793.	4.1	36
53	2D - SnSe2 nanoflakes on paper with 1D - NiO gate insulator based MISFET as multifunctional NIR photo switch and flexible temperature sensor. Materials Science in Semiconductor Processing, 2020, 105, $104738$ .	4.0	36
54	The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. Carbon, 2011, 49, 3789-3795.	10.3	35

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55	Fabrication of a solution-processed, highly flexible few layer MoS <sub>2</sub> (n)–CuO (p) piezotronic diode on a paper substrate for an active analog frequency modulator and enhanced broadband photodetector. Journal of Materials Chemistry C, 2017, 5, 11436-11447.	5.5	35
56	Cuprous oxide nanocubes decorated reduced graphene oxide nanosheets embedded in chitosan matrix: A versatile electrode material for stable supercapacitor and sensing applications. Journal of Electroanalytical Chemistry, 2019, 834, 187-195.	3.8	35
57	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
58	Amperometric pH Sensor Based on Graphene–Polyaniline Composite. IEEE Sensors Journal, 2017, 17, 5038-5043.	4.7	34
59	Templateâ€Assisted Electrospinning of Bubbled Carbon Nanofibers as Binderâ€Free Electrodes for Highâ€Performance Supercapacitors. ChemElectroChem, 2018, 5, 531-539.	3.4	34
60	Controlled synthesis of platinum nanoflowers supported on carbon quantum dots as a highly effective catalyst for methanol electro-oxidation. Surface and Coatings Technology, 2019, 360, 400-408.	4.8	34
61	Recent advancements in fabrication of nanomaterial based biosensors for diagnosis of ovarian cancer: a comprehensive review. Mikrochimica Acta, 2020, 187, 181.	5.0	34
62	Direct, large area growth of few-layered MoS <sub>2</sub> nanostructures on various flexible substrates: growth kinetics and its effect on photodetection studies. Flexible and Printed Electronics, 2018, 3, 015002.	2.7	33
63	ZnO nano-structured based devices for chemical and optical sensing applications. Sensors and Actuators Reports, 2022, 4, 100098.	4.4	33
64	Room temperature detection of NO2 using InSb nanowire. Applied Physics Letters, 2011, 99, .	3.3	32
65	Tea quality testing using 6B pencil lead as an electrochemical sensor. Analytical Methods, 2018, 10, 2327-2336.	2.7	32
66	A ruthenium(IV) disulfide based non-enzymatic sensor for selective and sensitive amperometric determination of dopamine. Mikrochimica Acta, 2019, 186, 480.	5.0	32
67	Strain engineered biocompatible h-WO3 nanofibers based highly selective and sensitive chemiresistive platform for detection of Catechol in blood sample. Materials Science and Engineering C, 2020, 108, 110365.	<b>7.</b> 3	31
68	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
69	Wireless, Smart, Human Motion Monitoring Using Solution Processed Fabrication of Graphene–MoS <sub>2</sub> Transistors on Paper. Advanced Electronic Materials, 2018, 4, 1700388.	5.1	30
70	Template-cum-catalysis free synthesis of α-MnO2 nanorods-hierarchical MoS2 microspheres composite for ultra-sensitive and selective determination of nitrite. Journal of Alloys and Compounds, 2019, 794, 26-34.	5.5	29
71	Surface functionalized β-Bi2O3 nanofibers based flexible, field-effect transistor-biosensor (BioFET) for rapid, label-free detection of serotonin in biological fluids. Sensors and Actuators B: Chemical, 2020, 321, 128540.	7.8	28
72	Ultra-Sensitive Non-Enzymatic Ethanol Sensor Based on Reduced Graphene Oxide-Zinc Oxide Composite Modified Electrode. IEEE Sensors Journal, 2018, 18, 1844-1848.	4.7	27

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73	Reusable, few-layered-MoS <sub>2</sub> nanosheets/graphene hybrid on cellulose paper for superior adsorption of methylene blue dye. New Journal of Chemistry, 2020, 44, 5489-5500.	2.8	27
74	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. Materials Horizons, 2022, 9, 663-674.	12.2	27
75	Few layered MoS <sub>2</sub> grown on pencil graphite: a unique single-step approach to fabricate economical, binder-free electrode for supercapacitor applications. Nanotechnology, 2019, 30, 035402.	2.6	26
76	Multilayered Piezoelectric Nanogenerator Based on Lead-Free Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Scharging of Supercapacitors. ACS Applied Energy Materials, 2022, 5, 2993-3003.	50 627 Td 5.1	l (fluoride)-(( 26
77	Solvent-free fabrication of multi-walled carbon nanotube based flexible pressure sensors for ultra-sensitive touch pad and electronic skin applications. RSC Advances, 2016, 6, 95836-95845.	3.6	25
78	Strain-modulation-assisted enhanced broadband photodetector based on large-area, flexible, few-layered Gr/MoS <sub>2</sub> on cellulose paper. Nanotechnology, 2017, 28, 455204.	2.6	25
79	Paper-based potentiometric pH sensor using carbon electrode drawn by pencil. Japanese Journal of Applied Physics, 2018, 57, 04FM08.	1.5	24
80	Facile Synthesis of Highly Porous N-Doped Carbon Nanosheets with Silica Nanoparticles for Ultrahigh Capacitance Supercapacitors. Energy & Samp; Fuels, 2020, 34, 11508-11518.	5.1	24
81	Vertically Aligned Few-Layer Crumpled MoS <sub>2</sub> Hybrid Nanostructure on Porous Ni Foam toward Promising Binder-Free Methanol Electro-Oxidation Application. Energy & Energy & 2021, 35, 10169-10180.	5.1	24
82	Ultra-selective, trace level detection of As3+ ions in blood samples using PANI coated BiVO4 modified SPCE via differential pulse anode stripping voltammetry. Materials Science and Engineering C, 2020, 111, 110806.	7.3	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. International Journal of Hydrogen Energy, 2022, 47, 3099-3107.	7.1	23
84	Facile synthesis of three-dimensional platinum nanoflowers on reduced graphene oxide $\hat{a} \in \text{``In oxide composite:}$ An ultra-high performance catalyst for methanol electro-oxidation. Journal of Electroanalytical Chemistry, 2018, 820, 9-17.	3.8	22
85	Facile Fabrication of P(Electrodeposition)/N(Solvothermal) 2Dâ€WS <sub>2</sub> â€Homojunction Based High Performance Photo Responsive, Strain Modulated Piezoâ€Phototronic Diode. ChemNanoMat, 2019, 5, 1521-1530.	2.8	22
86	Ultra-low Cost, Large Area Graphene/MoS2-Based Piezotronic Memristor on Paper: A Systematic Study for Both Direct Current and Alternating Current Inputs. ACS Applied Electronic Materials, 2019, 1, 883-891.	4.3	22
87	Selective in-situ derivatization of intrinsic nickel to nickel hexacyanoferrate on carbon nanotube and its application for electrochemical sensing of hydrazine. Journal of Electroanalytical Chemistry, 2019, 837, 60-66.	3.8	22
88	Highly Stable NiCoZn Ternary Mixed-Metal-Oxide Nanorods as a Low-Cost, Non-Noble Electrocatalyst for Methanol Electro-Oxidation in Alkaline Medium. Energy & Energy & 2021, 35, 12507-12515.	5.1	21
89	Low-density, stretchable, adhesive PVDF-polypyrrole reinforced gelatin based organohydrogel for UV photodetection, tactile and strain sensing applications. Materials Research Bulletin, 2022, 150, 111779.	5.2	21
90	Facile synthesis of three-dimensional platinum nanoflowers decorated reduced graphene oxide: An ultra-high performance electro-catalyst for direct methanol fuel cells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 231, 115-120.	3.5	20

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91	Simultaneous sensing of copper, lead, cadmium and mercury traces in human blood serum using orthorhombic phase aluminium ferrite. Materials Science and Engineering C, 2020, 112, 110865.	7.3	20
92	Solvent-free fabrication of paper based all-carbon disposable multifunctional sensors and passive electronic circuits. RSC Advances, 2016, 6, 95574-95583.	3.6	19
93	Impact of intrinsic iron on electrochemical oxidation of pencil graphite and its application as supercapacitors. Electrochimica Acta, 2018, 269, 274-281.	5.2	19
94	Direct growth of FeS2 on paper: A flexible, multifunctional platform for ultra-low cost, low power memristor and wearable non-contact breath sensor for activity detection. Materials Science in Semiconductor Processing, 2020, 108, 104910.	4.0	19
95	Highly selective trace level detection of Atrazine in human blood samples using lead-free double perovskite Al2NiCoO5 modified electrode via differential pulse voltammetry. Sensors and Actuators B: Chemical, 2020, 325, 128792.	7.8	19
96	Low Cost, Flexible, Perovskite BaTiO 3 Nanofibersâ€Based p–n Homojunction for Multifunctional Sensing of Physical and Chemical Stimuli. Advanced Materials Interfaces, 2020, 7, 2000568.	3.7	19
97	Eco-friendly all-carbon paper electronics fabricated by a solvent-free drawing method. Nanotechnology, 2016, 27, 095206.	2.6	18
98	FeS <sub>2</sub> Grown Pencil Graphite as an Inâ€expensive and Nonâ€enzymatic Sensor for Sensitive Detection of Uric Acid in Nonâ€invasive Samples. Electroanalysis, 2019, 31, 2397-2403.	2.9	18
99	Facile sonochemical assisted synthesis of a hybrid red–black phosphorus/sulfonated porous carbon composite for high-performance supercapacitors. Chemical Communications, 2020, 56, 7096-7099.	4.1	18
100	X (metal: Al, Cu, Sn, Ti)-functionalized tunable 2D-MoS2 nanostructure assembled biosensor arrays for qualitative and quantitative analysis of vital neurological drugs. Nanoscale, 2020, 12, 15336-15347.	5.6	18
101	A flexible, rapid response, hybrid inorganic–organic SnSe <sub>2</sub> –PEDOT:PSS bulk heterojunction based high-performance broadband photodetector. Materials Chemistry Frontiers, 2022, 6, 341-351.	5.9	18
102	Lead-free PDMS/PPy based low-cost wearable piezoelectric nanogenerator for self-powered pulse pressure sensor application. Materials Research Bulletin, 2022, 151, 111815.	5.2	18
103	A Wearable PVA Film Supported TiO <sub>2</sub> Nanoparticles Decorated NaNbO <sub>3</sub> Nanoflakesâ€Based SERS Sensor for Simultaneous Detection of Metabolites and Biomolecules in Human Sweat Samples. Advanced Materials Interfaces, 2022, 9, .	3.7	18
104	Al/ML-Enabled 2-D - RuS <sub>2</sub> Nanomaterial-Based Multifunctional, Low Cost, Wearable Sensor Platform for Non-Invasive Point of Care Diagnostics. IEEE Sensors Journal, 2020, 20, 8437-8444.	4.7	17
105	Reusable, Freeâ€Standing MoS <sub>2</sub> /rGO/Cu <sub>2</sub> O Ternary Composite Films for Fast and Highly Efficient Sunlight Driven Photocatalytic Degradation. ChemistrySelect, 2020, 5, 1997-2007.	1.5	17
106	Threeâ€dimensional nitrogen rich bubbled porous carbon sponge for supercapacitor & amp; pressure sensing applications. International Journal of Energy Research, 2020, 44, 7242-7253.	4.5	16
107	Single Step Synthesis of MoSe <sub>2</sub> â^'MoO <sub>3</sub> Heterostructure for Highly Sensitive Amperometric Detection of Nitrite in Water Samples of Industrial Areas. Electroanalysis, 2019, 31, 2410-2416.	2.9	15
108	Facile synthesis of biomass-derived sulfonated carbon microspheres and nanosheets for the electrochemical detection of glutathione in biological samples. Materials Letters, 2021, 282, 128683.	2.6	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. Materials Letters, 2017, 198, 46-49.	2.6	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. ACS Applied Electronic Materials, 2019, 1, 1076-1083.	4.3	14
111	Large area, one step synthesis of NiSe2 films on cellulose paper for glucose monitoring in bio-mimicking samples for clinical diagnostics. Nanotechnology, 2019, 30, 355502.	2.6	14
112	One-step solid-state reaction synthesis of $\hat{l}^2$ -NaFeO2 nanopebble as high capacity cathode material for sodium ion batteries. Materials Letters, 2020, 270, 127739.	2.6	14
113	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
114	1D NiO–3D Fe <sub>2</sub> O <sub>3</sub> mixed dimensional heterostructure for fast response flexible broadband photodetector. Nanotechnology, 2022, 33, 235201.	2.6	14
115	Molecular imprinted polymer functionalized carbon nanotube sensors for detection of saccharides. Applied Physics Letters, 2015, 107, .	3.3	13
116	Polyaniline Sheathed Black Phosphorous: A Novel, Advanced Platform for Electrochemical Sensing Applications. Electroanalysis, 2020, 32, 238-247.	2.9	13
117	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. IEEE Sensors Journal, 2020, 20, 13212-13219.	4.7	13
118	Papertronics: Hand-Written MoSâ,, on Paper Based Highly Sensitive and Recoverable Pressure and Strain Sensors. IEEE Sensors Journal, 2021, 21, 8943-8949.	4.7	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. Nanotechnology, 2018, 29, 325205.	2.6	12
120	Monitoring of physiological body signals and human activity based on ultra-sensitive tactile sensor and artificial electronic skin by direct growth of ZnSnO3 on silica cloth. Materials Science in Semiconductor Processing, 2019, 99, 125-133.	4.0	12
121	Biconcave Bi <sub>2</sub> WO <sub>6</sub> Nanoparticles for UV Light-Activated Detection of Nicotine in Human Sweat and Cigarette Samples. ACS Applied Nano Materials, 2020, 3, 12250-12259.	5.0	12
122	Ultra-low cost, smart sensor based on pyrite FeS <sub>2</sub> on cellulose paper for the determination of vital plant hormone methyl jasmonate. Engineering Research Express, 2020, 2, 025020.	1.6	12
123	Measurements and correlation of diffusion coefficients of ibuprofen in both liquid and supercritical fluids. Journal of Supercritical Fluids, 2020, 159, 104776.	3.2	11
124	Two-Dimensional Metallic NiSe2 Nanoclusters–Based Low-Cost, Flexible, Amperometric Sensor for Detection of Neurological Drug Carbamazepine in Human Sweat Samples. Frontiers in Chemistry, 2020, 8, 337.	3.6	11
125	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
126	Silica embedded carbon nanosheets derived from biomass acorn cupule for non-enzymatic, label-free, and wide range detection of $\hat{l}\pm 1$ -acid glycoprotein in biofluids. Analytica Chimica Acta, 2021, 1169, 338598.	5.4	11

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127	Effect of pH and activation on macroporous carbon derived from cocoa-pods for high performance aqueous supercapacitor application. Materials Chemistry and Physics, 2022, 276, 125399.	4.0	11
128	Single Step Synthesis of 2-D Marcasite FeS <sub>2</sub> Micro-Flowers Based Electrochemical Sensor for Simultaneous Detection of Four DNA Bases. IEEE Nanotechnology Magazine, 2022, 21, 374-379.	2.0	11
129	UV/ozone assisted local graphene $(\langle i\rangle p\langle i\rangle)/ZnO(\langle i\rangle n\langle i\rangle)$ heterojunctions as a nanodiode rectifier. Journal Physics D: Applied Physics, 2016, 49, 265101.	2.8	10
130	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. IEEE Sensors Journal, 2021, 21, 4152-4159.	4.7	10
131	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. New Journal of Chemistry, 2022, 46, 3383-3391.	2.8	10
132	One-step synthesis of carbon-doped PPy nanoparticles interspersed in 3D porous melamine foam as a high-performance piezoresistive pressure, strain, and breath sensor. Materials Chemistry Frontiers, 0,	5.9	10
133	Stripping voltammetry and chemometrics assisted ultra-selective, simultaneous detection of trace amounts of heavy metal ions in aqua and blood serum samples. Sensors and Actuators Reports, 2022, 4, 100097.	4.4	10
134	Flexible Substrate Based Few Layer MoS2 Electrode for Passive Electronic Devices and Interactive Frequency Modulation Based on Human Motion. IEEE Nanotechnology Magazine, 2018, 17, 338-344.	2.0	9
135	Wireless smartphone-assisted personal healthcare monitoring system using a MoS <sub>2</sub> -based flexible, wearable and ultra-low-cost functional sensor. Flexible and Printed Electronics, 2019, 4, 025003.	2.7	9
136	3D, large-area NiCo2O4 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
137	High responsivity self-powered flexible broadband photodetector based on hybrid Selenium-PEDOT:PSS junction. Organic Electronics, 2022, 108, 106586.	2.6	9
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