Wenjing Yuan

List of Publications by Year
in descending order

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45 papers	6,829 citations	172457 29 h-index	233421 45 g-index
45 all docs	45 docs citations	45 times ranked	11482 citing authors

#	Article	IF	Citations
1	Stretchable, conductive and porous MXene-based multilevel structured fibers for sensitive strain sensing and gas sensing. Journal of Materials Chemistry A, 2022, 10, 15634-15646.	10.3	19
2	Selective detection of methane by Pd-In2O3 sensors with a catalyst filter film. Sensors and Actuators B: Chemical, 2021, 328, 129030.	7.8	25
3	A new sensing material design based on chemically passivated phosphorene/porous two-dimensional polymer: Highly sensitive and selective detection of NO2. Sensors and Actuators B: Chemical, 2021, 329, 129233.	7.8	22
4	Microstructured MXene/polyurethane fibrous membrane for highly sensitive strain sensing with ultra-wide and tunable sensing range. Composites Communications, 2021, 23, 100586.	6.3	27
5	Controllable configuration of conductive pathway by tailoring the fiber alignment for ultrasensitive strain monitoring. Composites Part A: Applied Science and Manufacturing, 2021, 141, 106223.	7.6	8
6	Flexible MoSe2/MXene films for Li/Na-ion hybrid capacitors. Journal of Power Sources, 2021, 488, 229452.	7.8	59
7	Conductive MXene/melamine sponge combined with 3D printing resin base prepared as an electromagnetic interferences shielding switch. Composites Part A: Applied Science and Manufacturing, 2021, 143, 106238.	7.6	28
8	Highly stretchable pressure sensors with wrinkled fibrous geometry for selective pressure sensing with minimal lateral strain-induced interference. Composites Part B: Engineering, 2021, 217, 108899.	12.0	24
9	MXene-Derived TiO₂ Nanoparticles Intercalating between RGO Nanosheets: An Assembly for Highly Sensitive Gas Detection. ACS Applied Materials & Interfaces, 2021, 13, 39772-39780.	8.0	32
10	Stretchable and wearable conductometric VOC sensors based on microstructured MXene/polyurethane core-sheath fibers. Sensors and Actuators B: Chemical, 2021, 346, 130500.	7.8	34
11	End Group Modification for Black Phosphorus: Simultaneous Improvement of Chemical Stability and Gas Sensing Performance. ACS Applied Materials & Interfaces, 2021, 13, 50270-50280.	8.0	16
12	Wearable Pressure Sensors Based on MXene/Tissue Papers for Wireless Human Health Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 60531-60543.	8.0	121
13	Hydrogen sensing mechanism of Ru-loaded WO3 nanosheets. Sensors and Actuators B: Chemical, 2020, 304, 127339.	7.8	23
14	Triazine-Based Two-Dimensional Organic Polymer for Selective NO₂ Sensing with Excellent Performance. ACS Applied Materials & Interfaces, 2020, 12, 3919-3927.	8.0	48
15	Efficient NH₃ Detection Based on MOS Sensors Coupled with Catalytic Conversion. ACS Sensors, 2020, 5, 1838-1848.	7.8	42
16	Selective detection of methane by HZSM-5 zeolite/Pd-SnO2 gas sensors. Sensors and Actuators B: Chemical, 2020, 321, 128567.	7.8	36
17	Investigation on acetone sensing properties and mechanism of p-type Cr2WO6 nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 3899-3909.	2.2	5
18	Gas sensing investigation on anthraquinone nanowire decorated phosphorene: Enhanced stability in conjunction with superior sensitivity. Chemical Engineering Journal, 2020, 394, 124933.	12.7	14

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19	Flexible and stretchable MXene/Polyurethane fabrics with delicate wrinkle structure design for effective electromagnetic interference shielding at a dynamic stretching process. Composites Communications, 2020, 19, 90-98.	6.3	73
20	A highly flexible and multifunctional strain sensor based on a network-structured MXene/polyurethane mat with ultra-high sensitivity and a broad sensing range. Nanoscale, 2019, 11, 9949-9957.	5.6	150
21	Bioinspired Pretextured Reduced Graphene Oxide Patterns with Multiscale Topographies for High-Performance Mechanosensors. ACS Applied Materials & Interfaces, 2019, 11, 18645-18653.	8.0	15
22	Highly Sensitive, Selective, and Flexible NO₂ Chemiresistors Based on Multilevel Structured Three-Dimensional Reduced Graphene Oxide Fiber Scaffold Modified with Aminoanthroquinone Moieties and Ag Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 9309-9316.	8.0	34
23	A highly sensitive, multifunctional, and wearable mechanical sensor based on RGO/synergetic fiber bundles for monitoring human actions and physiological signals. Sensors and Actuators B: Chemical, 2019, 285, 179-185.	7.8	42
24	Power-law response of metal oxide semiconductor gas sensors to oxygen in presence of reducing gases. Sensors and Actuators B: Chemical, 2018, 267, 510-518.	7.8	39
25	A flexible VOCs sensor based on a 3D Mxene framework with a high sensing performance. Journal of Materials Chemistry A, 2018, 6, 18116-18124.	10.3	286
26	Highly sensitive and selective room-temperature nitrogen dioxide sensors based on porous graphene. Sensors and Actuators B: Chemical, 2018, 275, 78-85.	7.8	39
27	High-Performance and Multifunctional Skinlike Strain Sensors Based on Graphene/Springlike Mesh Network. ACS Applied Materials & Interfaces, 2018, 10, 19906-19913.	8.0	40
28	Flexible and highly sensitive artificial electronic skin based on graphene/polyamide interlocking fabric. Journal of Materials Chemistry C, 2018, 6, 6840-6846.	5.5	64
29	High-performance gas sensors based on a thiocyanate ion-doped organometal halide perovskite. Physical Chemistry Chemical Physics, 2017, 19, 12876-12881.	2.8	78
30	Graphene Oxide Membranes with Tunable Semipermeability in Organic Solvents. Advanced Materials, 2015, 27, 3797-3802.	21.0	192
31	A high-performance three-dimensional Niâ€“Fe layered double hydroxide/graphene electrode for water oxidation. Journal of Materials Chemistry A, 2015, 3, 6921-6928.	10.3	291
32	Small and light strain sensors based on graphene coated human hairs. Nanoscale, 2015, 7, 16361-16365.	5.6	61
33	Solution-Processed PEDOT:PSS/Graphene Composites as the Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2014, 6, 3587-3593.	8.0	115
34	Performance enhancement of a grapheneâ€“sulfur composite as a lithiumâ€“sulfur battery electrode by coating with an ultrathin Al2O3 film via atomic layer deposition. Journal of Materials Chemistry A, 2014, 2, 7360.	10.3	135
35	Ultrasensitive and Selective Nitrogen Dioxide Sensor Based on Self-Assembled Graphene/Polymer Composite Nanofibers. ACS Applied Materials & Interfaces, 2014, 6, 17003-17008.	8.0	153
36	Picomolar detection of mercury (II) using a three-dimensional porous graphene/polypyrrole composite electrode. Analytical and Bioanalytical Chemistry, 2014, 406, 6953-6956.	3.7	23

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37	Nanoporous graphene materials. Materials Today, 2014, 17, 77-85.	14.2	170
38	The edge- and basal-plane-specific electrochemistry of a single-layer graphene sheet. Scientific Reports, 2013, 3, 2248.	3.3	432
39	Highâ€Performance NO₂ Sensors Based on Chemically Modified Graphene. Advanced Materials, 2013, 25, 766-771.	21.0	404
40	Graphene-based gas sensors. Journal of Materials Chemistry A, 2013, 1, 10078.	10.3	938
41	Strong composite films with layered structures prepared by casting silk fibroinâ€“graphene oxide hydrogels. Nanoscale, 2013, 5, 3780.	5.6	160
42	A high-performance flexible fibre-shaped electrochemical capacitor based on electrochemically reduced graphene oxide. Chemical Communications, 2013, 49, 291-293.	4.1	272
43	Ultrahigh-rate supercapacitors based on eletrochemically reduced graphene oxide for ac line-filtering. Scientific Reports, 2012, 2, 247.	3.3	559
44	Electrochemical actuator based on polypyrrole/sulfonated graphene/graphene tri-layer film. Thin Solid Films, 2012, 520, 6307-6312.	1.8	23
45	Strongly green-photoluminescent graphene quantum dots for bioimaging applications. Chemical Communications, 2011, 47, 6858.	4.1	1,458