Wenjing Yuan

List of Publications by Year
in descending order

45 papers	6,829 citations	172207 29 h-index	233125 45 g-index
45 all docs	45 docs citations	45 times ranked	11482 citing authors

#	Article	IF	Citations
1	Strongly green-photoluminescent graphene quantum dots for bioimaging applications. Chemical Communications, 2011, 47, 6858.	2.2	1,458
2	Graphene-based gas sensors. Journal of Materials Chemistry A, 2013, 1, 10078.	5.2	938
3	Ultrahigh-rate supercapacitors based on eletrochemically reduced graphene oxide for ac line-filtering. Scientific Reports, 2012, 2, 247.	1.6	559
4	The edge- and basal-plane-specific electrochemistry of a single-layer graphene sheet. Scientific Reports, 2013, 3, 2248.	1.6	432
5	Highâ€Performance NO₂ Sensors Based on Chemically Modified Graphene. Advanced Materials, 2013, 25, 766-771.	11.1	404
6	A high-performance three-dimensional Niâ€“Fe layered double hydroxide/graphene electrode for water oxidation. Journal of Materials Chemistry A, 2015, 3, 6921-6928.	5.2	291
7	A flexible VOCs sensor based on a 3D Mxene framework with a high sensing performance. Journal of Materials Chemistry A, 2018, 6, 18116-18124.	5.2	286
8	A high-performance flexible fibre-shaped electrochemical capacitor based on electrochemically reduced graphene oxide. Chemical Communications, 2013, 49, 291-293.	2.2	272
9	Graphene Oxide Membranes with Tunable Semipermeability in Organic Solvents. Advanced Materials, 2015, 27, 3797-3802.	11.1	192
10	Nanoporous graphene materials. Materials Today, 2014, 17, 77-85.	8.3	170
11	Strong composite films with layered structures prepared by casting silk fibroinâ€“graphene oxide hydrogels. Nanoscale, 2013, 5, 3780.	2.8	160
12	Ultrasensitive and Selective Nitrogen Dioxide Sensor Based on Self-Assembled Graphene/Polymer Composite Nanofibers. ACS Applied Materials & Interfaces, 2014, 6, 17003-17008.	4.0	153
13	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.	2.8	150
14	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.	5.2	135
15	Wearable Pressure Sensors Based on MXene/Tissue Papers for Wireless Human Health Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 60531-60543.	4.0	121
16	Solution-Processed PEDOT:PSS/Graphene Composites as the Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2014, 6, 3587-3593.	4.0	115
17	High-performance gas sensors based on a thiocyanate ion-doped organometal halide perovskite. Physical Chemistry Chemical Physics, 2017, 19, 12876-12881.	1.3	78
18	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.	3.3	73

#	Article	IF	Citations
19	Flexible and highly sensitive artificial electronic skin based on graphene/polyamide interlocking fabric. Journal of Materials Chemistry C, 2018, 6, 6840-6846.	2.7	64
20	Small and light strain sensors based on graphene coated human hairs. Nanoscale, 2015, 7, 16361-16365.	2.8	61
21	Flexible MoSe2/MXene films for Li/Na-ion hybrid capacitors. Journal of Power Sources, 2021, 488, 229452.	4.0	59
22	Triazine-Based Two-Dimensional Organic Polymer for Selective NO₂ Sensing with Excellent Performance. ACS Applied Materials & Interfaces, 2020, 12, 3919-3927.	4.0	48
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.	4.0	42
24	Efficient NH₃ Detection Based on MOS Sensors Coupled with Catalytic Conversion. ACS Sensors, 2020, 5, 1838-1848.	4.0	42
25	High-Performance and Multifunctional Skinlike Strain Sensors Based on Graphene/Springlike Mesh Network. ACS Applied Materials & Interfaces, 2018, 10, 19906-19913.	4.0	40
26	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.	4.0	39
27	Highly sensitive and selective room-temperature nitrogen dioxide sensors based on porous graphene. Sensors and Actuators B: Chemical, 2018, 275, 78-85.	4.0	39
28	Selective detection of methane by HZSM-5 zeolite/Pd-SnO2 gas sensors. Sensors and Actuators B: Chemical, 2020, 321, 128567.	4.0	36
29	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.	4.0	34
30	Stretchable and wearable conductometric VOC sensors based on microstructured MXene/polyurethane core-sheath fibers. Sensors and Actuators B: Chemical, 2021, 346, 130500.	4.0	34
31	MXene-Derived TiO₂ Nanoparticles Intercalating between RGO Nanosheets: An Assembly for Highly Sensitive Gas Detection. ACS Applied Materials & Interfaces, 2021, 13, 39772-39780.	4.0	32
32	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.	3.8	28
33	Microstructured MXene/polyurethane fibrous membrane for highly sensitive strain sensing with ultra-wide and tunable sensing range. Composites Communications, 2021, 23, 100586.	3.3	27
34	Selective detection of methane by Pd-In2O3 sensors with a catalyst filter film. Sensors and Actuators B: Chemical, 2021, 328, 129030.	4.0	25
35	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.	5.9	24
36	Electrochemical actuator based on polypyrrole/sulfonated graphene/graphene tri-layer film. Thin Solid Films, 2012, 520, 6307-6312.	0.8	23

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37	Picomolar detection of mercury (II) using a three-dimensional porous graphene/polypyrrole composite electrode. Analytical and Bioanalytical Chemistry, 2014, 406, 6953-6956.	1.9	23
38	Hydrogen sensing mechanism of Ru-loaded WO3 nanosheets. Sensors and Actuators B: Chemical, 2020, 304, 127339.	4.0	23
39	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.	4.0	22
40	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.	5.2	19
41	End Group Modification for Black Phosphorus: Simultaneous Improvement of Chemical Stability and Gas Sensing Performance. ACS Applied Materials & Interfaces, 2021, 13, 50270-50280.	4.0	16
42	Bioinspired Pretextured Reduced Graphene Oxide Patterns with Multiscale Topographies for High-Performance Mechanosensors. ACS Applied Materials & Interfaces, 2019, 11, 18645-18653.	4.0	15
43	Gas sensing investigation on anthraquinone nanowire decorated phosphorene: Enhanced stability in conjunction with superior sensitivity. Chemical Engineering Journal, 2020, 394, 124933.	6.6	14
44	Controllable configuration of conductive pathway by tailoring the fiber alignment for ultrasensitive strain monitoring. Composites Part A: Applied Science and Manufacturing, 2021, 141, 106223.	3.8	8
45	Investigation on acetone sensing properties and mechanism of p-type Cr2WO6 nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 3899-3909.	1.1	5