Bin Wang

List of Publications by Year
in descending order

20 papers	645 citations	567144 15 h-index	752573 20 g-index
20 all docs	20 docs citations	20 times ranked	803 citing authors

#	Article	IF	Citations
1	Preparation, characterization and NH3-sensing properties of reduced graphene oxide/copper phthalocyanine hybrid material. Sensors and Actuators B: Chemical, 2014, 193, 340-348.	4.0	85
2	Enhanced NH 3 -sensing behavior of 2,9,16,23-tetrakis(2,2,3,3-tetrafluoropropoxy) metal(II) phthalocyanine/multi-walled carbon nanotube hybrids: An investigation of the effects of central metals. Carbon, 2014, 80, 268-278.	5.4	84
3	Copper phthalocyanine noncovalent functionalized single-walled carbon nanotube with enhanced NH3 sensing performance. Sensors and Actuators B: Chemical, 2014, 190, 157-164.	4.0	63
4	Lead phthalocyanine modified carbon nanotubes with enhanced NH3 sensing performance. Sensors and Actuators B: Chemical, 2012, 171-172, 398-404.	4.0	48
5	Ultrafast NH3 gas sensor based on phthalocyanine-optimized non-covalent hybrid of carbon nanotubes with pyrrole. Sensors and Actuators B: Chemical, 2022, 357, 131352.	4.0	45
6	Comparative gas sensing in copper porphyrin and copper phthalocyanine spin-coating films. Sensors and Actuators B: Chemical, 2011, 152, 191-195.	4.0	42
7	Stably dispersed carbon nanotubes covalently bonded to phthalocyanine cobalt(<scp>ii</scp>) for ppb-level H₂S sensing at room temperature. Journal of Materials Chemistry A, 2016, 4, 1096-1104.	5.2	40
8	Enhanced NH3-Sensitivity of Reduced Graphene Oxide Modified by Tetra-Î±-Iso-Pentyloxymetallophthalocyanine Derivatives. Nanoscale Research Letters, 2015, 10, 373.	3.1	29
9	The effects of central metals on ammonia sensing of metallophthalocyanines covalently bonded to graphene oxide hybrids. RSC Advances, 2017, 7, 34215-34225.	1.7	27
10	A high-sensitive room temperature gas sensor based on cobalt phthalocyanines and reduced graphene oxide nanohybrids for the ppb-levels of ammonia detection. RSC Advances, 2019, 9, 37518-37525.	1.7	27
11	Preparation, characterization and NH3-sensing of 1,8,15,22-tetra-iso-pentyloxyphthalocyanine copper, nickel and lead spin-coating films. Sensors and Actuators B: Chemical, 2012, 161, 498-503.	4.0	25
12	Comparative NH3-sensing in palladium, nickle and cobalt tetra-(tert-butyl)-5,10,15,20-tetraazaporphyrin spin-coating films. Sensors and Actuators B: Chemical, 2011, 160, 1-6.	4.0	22
13	Preparation, characterization and gas sensing properties of high soluble metal (II) phthalocyanine thin films by spin-coating method. Materials Letters, 2005, 59, 3073-3077.	1.3	20
14	Stably dispersed metallophthalocyanine noncovalently bonded to multiwalled carbon nanotubes for ammonia sensing at room temperature. Sensors and Actuators B: Chemical, 2017, 246, 262-270.	4.0	18
15	The effects of amino substituents on the enhanced ammonia sensing performance of PcCo/rGO hybrids. RSC Advances, 2018, 8, 41280-41287.	1.7	17
16	Preparation, characterization and NO2-sensing properties of octa-iso-pentyloxyphthalocyanine lead spin-coating films. Sensors and Actuators B: Chemical, 2010, 149, 362-367.	4.0	16
17	A highly sensitive ppb-level H₂S gas sensor based on fluorophenoxy-substituted phthalocyanine cobalt/rGO hybrids at room temperature. RSC Advances, 2021, 11, 5993-6001.	1.7	16
18	The effect of rigid phenoxyl substituent on the NH3-sensing properties of tetra-Î±-(4-tert-butylphenoxyl)-metallophthalocyanine/reduced graphene oxide hybrids. RSC Advances, 2017, 7, 22599-22609.	1.7	14

#	Article	IF	Citations
19	Preparation, characterization and gas sensing properties of nickel octa-iso-pentyloxynaphthalocyanine spin-coating films. Thin Solid Films, 2008, 517, 937-942.	0.8	5
20	Preparation and NH₃-Sensing Properties of Lead(II) Tetrakis(4-Cumylphenoxy) Phthalocyanine Spin-Coating Films. Applied Mechanics and Materials, 2013, 303-306, 45-48.	0.2	2