

Yingang Gui

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

1,428
citations

23
h-index

36
g-index

77
ext. papers

1,969
ext. citations

4.3
avg, IF

5.55
L-index

#	Paper	IF	Citations
75	Transition metal oxides (NiO, SnO ₂ , In ₂ O ₃) modified graphene: A promising candidate to detect and scavenge CO, C ₂ H ₂ , and CH ₄ gases. <i>Diamond and Related Materials</i> , 2022 , 123, 108856	3.5	1
74	Adsorption and sensing performances of transition metal (Ag, Pd, Pt, Rh, and Ru) modified WSe ₂ monolayer upon SF ₆ decomposition gases (SOF ₂ and SO ₂ F ₂). <i>Applied Surface Science</i> , 2022 , 581, 152365	6.7	10
73	Adsorption and gas-sensing properties of Au _n (n=1-10) cluster doped MoTe ₂ for NH ₃ , NO ₂ , and SO ₂ gas molecules. <i>Surfaces and Interfaces</i> , 2022 , 30, 101883	4.1	3
72	A DFT calculation: Gas sensitivity of defect GeSe to air decomposition products (CO, NO and NO ₂). <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
71	Density functional theory study of Pd, Pt, and Au modified GeSe for adsorption and sensing of dissolved gases in transformer oil. <i>Surfaces and Interfaces</i> , 2022 , 31, 101994	4.1	2
70	First-principles study of the adsorption behavior and sensing properties of C ₂ H ₄ and C ₂ H ₆ molecules on (CuO/TiO ₂) _n (n=1-10) cluster modified MoTe ₂ monolayer. <i>Surfaces and Interfaces</i> , 2022 , 31, 102003	4.1	3
69	A DFT study of adsorption properties of SO ₂ , SOF ₂ , and SO ₂ F ₂ on ZnO/CuO doped graphene. <i>Diamond and Related Materials</i> , 2022 , 109103	3.5	0
68	Gas-Sensing Property of TM-MoTe ₂ Monolayer towards SO ₂ , SOF ₂ , and HF Gases. <i>Molecules</i> , 2022 , 27, 3176	4.8	
67	Metal Oxide Nanoparticles (XO, X = Cu, Zn, Ni) Doped GeSe Monolayer: Theoretical Exploration of a Novel H ₂ S Gas Sensor for Health and Industrial Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	2
66	Adsorption and gas-sensing properties of Pd _n -GaNNTs to C ₂ H ₂ and H ₂ gases. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 136, 115004	3	1
65	Adsorption property of Co, Rh, and Pd-embedded g-C ₃ N ₄ monolayer to SO ₂ F ₂ gas. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 4790-4790	5.5	3
64	Au (n=1-10) cluster doped MoSe ₂ nanosheet as a promising gas-sensing material for C ₂ H ₄ gas in oil-immersed transformer. <i>Applied Surface Science</i> , 2021 , 541, 148356	6.7	17
63	Adsorption property of CO, NO, and NO ₂ gas molecules on Co ₃ -MoSe ₂ monolayer. <i>Sensors and Actuators A: Physical</i> , 2021 , 319, 112547	3.9	4
62	Gas-sensing properties of Pt _n -doped WSe ₂ to SF ₆ decomposition products. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 97, 452-459	6.3	24
61	Adsorption behaviors of SF ₆ decomposition gas on Ni-doped ZIF-8: A first-principles study. <i>Vacuum</i> , 2021 , 187, 110131	3.7	5
60	Sensing Characteristics of Toxic CBr ₄ Decomposition Products on Metallic- Nanoparticle Co-Doped BN Monolayer: A First Principles Study. <i>IEEE Sensors Journal</i> , 2021 , 21, 13082-13089	4	5
59	Gas-Sensing Properties of CuS-MoSe Nanosheets to NO and NH Gases. <i>ACS Omega</i> , 2021 , 6, 16517-16523	3.9	1

58	Adsorption properties of Ag ₂ O/MoSe ₂ towards SF ₆ decomposed products. <i>Vacuum</i> , 2021 , 189, 110248	3.7	10
57	Adsorption mechanism of decomposition gas of SF ₆ circuit breaker on MOF-505 analogue. <i>Vacuum</i> , 2021 , 183, 109816	3.7	8
56	Adsorption behavior of Cu-doped ZIF-67 for decomposition gases of organic insulator: A first-principles study. <i>Journal of Physics: Conference Series</i> , 2021 , 1754, 012033	0.3	1
55	Co, Rh decorated GaNNTs for online monitoring of characteristic decomposition products in oil-immersed transformer. <i>Applied Surface Science</i> , 2021 , 561, 150072	6.7	2
54	Adsorption and gas sensing properties of CuO modified MoSe ₂ to C ₃ F ₇ CN decomposition products. <i>Materials Today Communications</i> , 2021 , 28, 102677	2.5	1
53	Theoretical Study of SF ₆ Decomposition Products Adsorption on Metal Oxide Cluster-modified Single-layer Graphene. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 105, 278-278	6.3	3
52	Adsorption and gas-sensing properties of C ₂ H ₄ , CH ₄ , H ₂ , H ₂ O on metal oxides (CuO, NiO) modified SnS ₂ monolayer: A DFT study. <i>Results in Physics</i> , 2021 , 28, 104680	3.7	4
51	TiO ₂ -Doped GeSe Monolayer: A Highly Selective Gas Sensor for SF ₆ Decomposed Species Detection Based on DFT Method. <i>Applied Surface Science</i> , 2021 , 151212	6.7	3
50	Pd and Pt decorated GeSe monolayers as promising materials for SOF ₂ and SO ₂ F ₂ sensing. <i>Applied Surface Science</i> , 2021 , 560, 150028	6.7	8
49	Adsorption and sensing performances of ZnO-g-C ₃ N ₄ monolayer toward SF ₆ decomposition products. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 134, 114909	3	2
48	First principles analysis of SO ₂ , H ₂ S adsorbed on Fe-ZnS surface. <i>Sensors and Actuators A: Physical</i> , 2021 , 329, 112827	3.9	1
47	Adsorption characteristics of H ₂ S, SO ₂ , SO ₂ F ₂ , SOF ₂ , and N ₂ on NiO/MoSe ₂ monolayer for gas-sensing applications. <i>Vacuum</i> , 2021 , 193, 110506	3.7	4
46	Palladium modified MoS ₂ monolayer for adsorption and scavenging of SF ₆ decomposition products: A DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 123, 114178	3	19
45	Adsorption and gas-sensing properties of Pt ₂ /GaNNTs for SF ₆ decomposition products. <i>Applied Surface Science</i> , 2020 , 524, 146570	6.7	35
44	Adsorption of C ₂ H ₂ , CH ₄ and CO on Mn-doped graphene: Atomic, electronic, and gas-sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 119, 113959	3	48
43	First-Principles Insight into a Ru-Doped SnS Monolayer as a Promising Biosensor for Exhale Gas Analysis. <i>ACS Omega</i> , 2020 , 5, 8919-8926	3.9	23
42	Comparison of sensing and electronic properties of C ₂ H ₂ on different transition metal oxide nanoparticles (Fe ₂ O ₃ , NiO, TiO ₂) modified BNNT (10, 0). <i>Applied Surface Science</i> , 2020 , 521, 146463	6.7	30
41	Platinum modified MoS ₂ monolayer for adsorption and gas sensing of SF ₆ decomposition products: a DFT study. <i>High Voltage</i> , 2020 , 5, 454-462	4.1	41

40	Adsorption properties of pristine and Co-doped TiO ₂ (100) toward dissolved gas analysis in transformer oil. <i>Applied Surface Science</i> , 2020 , 507, 145163	6.7	53
39	Gas-sensing properties and mechanism of Pd-GaNNTs for air decomposition products in ring main unit. <i>Applied Surface Science</i> , 2020 , 531, 147293	6.7	29
38	First-Principles Study on the Potential of Monolayer Ti ₂ N as an Adsorbent for Dissolved H ₂ and C ₂ H ₂ Gases in Oil. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12346-12354	5.6	3
37	First-Principles Calculations of Gas-Sensing Properties of Pd Clusters Decorated AlNNTs to Dissolved Gases in Transformer Oil. <i>IEEE Access</i> , 2020 , 8, 162692-162700	3.5	0
36	Influence of Pd Clusters Doping on Gas Sensing Properties of TiO ₂ (101) Nanotubes to SF ₆ Decomposition Products. <i>IEEE Access</i> , 2020 , 8, 205282-205288	3.5	
35	First-principle study on the structural and electronic properties of H ₂ S and SO ₂ adsorption on Pd-doped MoS ₂ monolayer. <i>Molecular Physics</i> , 2020 , 118, e1606462	1.7	2
34	A DFT study of dissolved gas (C ₂ H ₂ , H ₂ , CH ₄) detection in oil on CuO-modified BNNT. <i>Applied Surface Science</i> , 2020 , 500, 144030	6.7	70
33	Adsorption of SF ₆ Decomposition Components on Pt-Doped Graphyne Monolayer: A DFT Study. <i>IEEE Access</i> , 2019 , 7, 124026-124033	3.5	4
32	Ab Initio Study of SOF and SOF Adsorption on Co-MoS. <i>ACS Omega</i> , 2019 , 4, 2517-2522	3.9	12
31	DFT-based study on H ₂ S and SOF ₂ adsorption on Si-MoS ₂ monolayer. <i>Results in Physics</i> , 2019 , 13, 102225	5.7	23
30	Effect of Nickel Doping on Adsorption of SF ₆ Decomposition Products over MoS ₂ Surface. <i>Jom</i> , 2019 , 71, 3971-3979	2.1	8
29	DFT study of SF ₆ decomposed products on Pd/TiO ₂ : gas sensing mechanism study. <i>Adsorption</i> , 2019 , 25, 1643-1653	2.6	9
28	Au Catalyst-Modified MoS Monolayer as a Highly Effective Adsorbent for SOF Gas: A DFT Study. <i>ACS Omega</i> , 2019 , 4, 12204-12211	3.9	4
27	Micro-scale effects of nano-SiO modification with silane coupling agents on the cellulose/nano-SiO interface. <i>Nanotechnology</i> , 2019 , 30, 445701	3.4	26
26	Theoretical Study of SOF ₂ Adsorption on Pd/Pt-Ni(111) Bimetallic Surfaces. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2916	2.6	0
25	Gas sensing of graphene and graphene oxide nanoplatelets to ClO ₂ and its decomposed species. <i>Superlattices and Microstructures</i> , 2019 , 135, 106248	2.8	14
24	Adsorption mechanism of hydrogen sulfide and sulfur dioxide on Au/MoS ₂ monolayer. <i>Superlattices and Microstructures</i> , 2019 , 135, 106280	2.8	6
23	Pt Cluster Modified h-BN for Gas Sensing and Adsorption of Dissolved Gases in Transformer Oil: A Density Functional Theory Study. <i>Nanomaterials</i> , 2019 , 9,	5.4	14

22	Adsorption of SF ₆ decomposition components over Pd (1 1 1): A density functional theory study. <i>Applied Surface Science</i> , 2019 , 465, 172-179	6.7	76
21	Morphology controllable synthesis of hierarchical WO ₃ nanostructures and C ₂ H ₂ sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 109, 253-260	3	24
20	The sensing mechanism of N-doped SWCNTs toward SF ₆ decomposition products: A first-principle study. <i>Applied Surface Science</i> , 2018 , 440, 846-852	6.7	55
19	Theoretical study of the adsorption of SF ₆ decomposition components on Ni(1 1 1) surface. <i>Computational Materials Science</i> , 2018 , 152, 248-255	3.2	24
18	Adsorption of SF ₆ decomposition components on Pt ₃ -TiO ₂ (1 0 1) surface: A DFT study. <i>Applied Surface Science</i> , 2018 , 459, 242-248	6.7	55
17	Synthesis and Characterization of Highly Sensitive Hydrogen (H ₂) Sensing Device Based on Ag Doped SnO ₂ Nanospheres. <i>Materials</i> , 2018 , 11,	3.5	17
16	A DFT Study on the Adsorption of H ₂ and SO ₂ on Ni Doped MoS ₂ Monolayer. <i>Nanomaterials</i> , 2018 , 8,	5.4	86
15	Fabrication and characterization of highly sensitive and selective sensors based on porous NiO nanodisks. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 604-615	8.5	69
14	Reactive Molecular Dynamics Study of Effects of Small-Molecule Organic Acids on PMIA Thermal Decomposition. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 10384-10392	3.4	6
13	Effect of Aminosilane Coupling Agents with Different Chain Lengths on Thermo-Mechanical Properties of Cross-Linked Epoxy Resin. <i>Nanomaterials</i> , 2018 , 8,	5.4	20
12	Ni-CNT Chemical Sensor for SF ₆ Decomposition Components Detection: A Combined Experimental and Theoretical Study. <i>Sensors</i> , 2018 , 18,	3.8	11
11	Mechanism and Application of Carbon Nanotube Sensors in SF Decomposed Production Detection: a Review. <i>Nanoscale Research Letters</i> , 2017 , 12, 177	5	52
10	Identification of Power Transformer Winding Mechanical Fault Types Based on Online IFRA by Support Vector Machine. <i>Energies</i> , 2017 , 10, 2022	3.1	13
9	Influence of humidity and voltage on characteristic decomposition components under needle-plate discharge model. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 2633-2640	2.3	4
8	Preparation and Application of TiO ₂ Nanotube Array Gas Sensor for SF ₆ -Insulated Equipment Detection: a Review. <i>Nanoscale Research Letters</i> , 2016 , 11, 302	5	36
7	First-principles study of SF ₆ decomposed gas adsorbed on Au-decorated graphene. <i>Applied Surface Science</i> , 2016 , 367, 259-269	6.7	90
6	Gas Sensing Analysis of Ag-Decorated Graphene for Sulfur Hexafluoride Decomposition Products Based on the Density Functional Theory. <i>Sensors</i> , 2016 , 16,	3.8	15
5	Study on the characteristic decomposition components of air-insulated switchgear cabinet under partial discharge. <i>AIP Advances</i> , 2016 , 6, 075106	1.5	5

4	Analysis of adsorption properties of typical partial discharge gases on Ni-SWCNTs using density functional theory. <i>Applied Surface Science</i> , 2016 , 379, 47-54	6.7	75
3	Theoretical and experimental study on competitive adsorption of SF6 decomposed components on Au-modified anatase (101) surface. <i>Applied Surface Science</i> , 2016 , 387, 437-445	6.7	21
2	Adsorption of gases from SF6 decomposition on aluminum-doped SWCNTs: a density functional theory study. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	19
1	A simulation of Pd-doped SWCNTs used to detect SF 6 decomposition components under partial discharge. <i>Applied Surface Science</i> , 2014 , 315, 196-202	6.7	52