Xiaoxing Zhang

List of Publications by Year
in descending order

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271	8,668	50276	71685
papers	citations	46 h-index	76 g-index

276	276	276	3134
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SnO2 nanoparticles based highly sensitive gas sensor for detection of C4F7N: A new eco-friendly gas insulating medium. Journal of Hazardous Materials, 2022, 422, 126882.	12.4	34
2	Plasma-Catalytic Methanol Synthesis from CO₂ Hydrogenation over a Supported Cu Cluster Catalyst: Insights into the Reaction Mechanism. ACS Catalysis, 2022, 12, 1326-1337.	11.2	50
3	Research on infrared spectrum characteristics and detection technology of environmental-friendly insulating medium C5F10O. Vibrational Spectroscopy, 2022, 118, 103336.	2.2	18
4	Compatibility of eco-friendly insulating medium C6F12O and sealing material NBR. AIP Advances, 2022, 12, .	1.3	3
5	Adsorption behaviour of CF4 and COF2 gas on the GaN monolayer doped with Pt catalytic: A first-principles study. Surface Science, 2022, 719, 122032.	1.9	16
6	Study on insulation defect discharge features of dry-type reactor based on audible acoustic. AIP Advances, 2022, 12, 025210.	1.3	3
7	Theoretical screening into Ru-doped MoS₂ monolayer as a promising gas sensor upon SO₂ and SOF₂ in SF₆ insulation devices. Molecular Physics, 2022, 120, .	1.7	33
8	Nanosecondâ€pulsed microbubble plasma reactor for plasmaâ€activated water generation and bacterial inactivation. Plasma Processes and Polymers, 2022, 19, .	3.0	43
9	Adsorption Properties of ZSM-5 Molecular Sieve for Perfluoroisobutyronitrile Mixtures and Its Fluorocarbon Decomposition Products. Chemosensors, 2022, 10, 121.	3.6	4
10	Study on partial discharge characteristics of C6F12O mixed gas. Scientific Reports, 2022, 12, 6265.	3.3	1
11	The effect of the photoacoustic Field-Photoacoustic cell coupling term on the performance of the gas detection system. Optics and Laser Technology, 2022, 153, 108211.	4.6	7
12	Study on Photoacoustic Spectroscopy Detection of CO in Gas Insulation Equipment. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1498-1505.	2.9	8
13	Flexible Planar Monopole Built-in GIS PD Sensor Based on Meandering Technology. Sensors, 2022, 22, 4134.	3.8	6
14	Infrared Spectrum Analysis and Quantitative Detection of SF₆ Characteristic Decomposition Components SO₂F₂ and SOF₂. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1316-1323.	2.9	6
15	Arc decomposition behavior of C ₄ F ₇ N/Air gas mixture and biosafety evaluation of its byâ€products. High Voltage, 2022, 7, 856-865.	4.7	7
16	PD Flexible Built-In High-Sensitivity Elliptical Monopole Antenna Sensor. Sensors, 2022, 22, 4982.	3.8	5
17	Exploring single atom catalysts of transition-metal doped phosphorus carbide monolayer for HER: A first-principles study. Journal of Energy Chemistry, 2021, 52, 155-162.	12.9	54
18	Real-Time Measurement of SO₂, H₂S, and CS₂ Mixed Gases Using Ultraviolet Spectroscopy and a Least Squares Algorithm. Applied Spectroscopy, 2021, 75, 265-273.	2.2	5

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19	SF6 abatement in a packed bed plasma reactor: Role of zirconia size and optimization using RSM. Journal of Industrial and Engineering Chemistry, 2021, 94, 205-216.	5.8	5
20	Research on Pressure-based Detection Technology for Partial Overheat Insulation Defect of Oil-less Power Equipment. IOP Conference Series: Earth and Environmental Science, 2021, 632, 042009.	0.3	2
21	Research on the selection and layout of the cantilever sensor based on photoacoustic spectroscopy gas detection technology. Engineering Research Express, 2021, 3, 025005.	1.6	0
22	A MATLAB GUI teaching application for ferroresonance simulation. Computer Applications in Engineering Education, 2021, 29, 1757-1770.	3.4	2
23	The application of fluorescent optical fiber in partial discharge detection of Ring Main Unit. Measurement: Journal of the International Measurement Confederation, 2021, 174, 108979.	5.0	8
24	Effect of Oxygen on Power Frequency Breakdown Characteristics and Decomposition Properties of C5-PFK/CO₂ Gas Mixture. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 373-380.	2.9	10
25	Compatibility and Interaction Mechanism between EPDM Rubber and a SF₆ Alternative Gasâ€”C₄F₇N/CO₂/O₂. ACS Omega, 2021, 6, 13293-13299.	3.5	13
26	AC Breakdown Strength and Its By-Products of Eco-Friendly Perfluoroisobutyronitrile/O₂/N₂ Gas Mixture at High Pressure for HV Equipment. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1020-1027.	2.9	8
27	Research on transformer fault diagnosis: Based on improved firefly algorithm optimized LPboostâ€“classification and regression tree. IET Generation, Transmission and Distribution, 2021, 15, 2926-2942.	2.5	3
28	Effect of O₂ on AC Partial Discharge and Decomposition Behavior of C₄F₇N/CO₂/O₂ Gas Mixture. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1440-1448.	2.9	8
29	Dissolved gas analysis in transformer oil using Ni-Doped GaN monolayer: A DFT study. Superlattices and Microstructures, 2021, 159, 107055.	3.1	27
30	Experimental study on the effect of O2 on the decomposition characteristics of C6F12O/CO2 gas mixture. AIP Advances, 2021, 11, .	1.3	1
31	The adsorption performance of harmful gas on Cu doped WS2: A first-principle study. Materials Today Communications, 2021, 28, 102488.	1.9	36
32	Study of compatibility between eco-friendly insulating medium C6F12O and sealing material EPDM. Journal of Molecular Structure, 2021, 1244, 130949.	3.6	9
33	Detection of SF6 decomposition components by pristine and Cr-doped GaN based on the first-principles theory. Computational and Theoretical Chemistry, 2021, 1205, 113431.	2.5	8
34	Simultaneous Detection of Câ„‚Hâ„‚ and CO Based on Cantilever-Enhanced Photoacoustic Spectroscopy. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	11
35	The sensitivity of C₄F₇N to electric field and its influence to environment-friendly insulating gas mixture C₄F₇N/CO₂. Journal Physics D: Applied Physics, 2021, 54, 055501.	2.8	32
36	Study on the Reaction Mechanism of Ethylene Propylene Diene Monomer Sealing Material and C₅F₁₀Oâ€“CO₂ Gas Mixture. ACS Omega, 2021, 6, 28770-28778.	3.5	1

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37	Adsorption of SF₆ Decomposition Products by the S Vacancy Structure and Edge Structure of SnS₂: A Density Functional Theory Study. ACS Omega, 2021, 6, 28131-28139.	3.5	11
38	Study on the Compatibility of Eco-Friendly Insulating Gas C5F10O/N2 and C5F10O/Air with Copper Materials in Gas-Insulated Switchgears. Applied Sciences (Switzerland), 2021, 11, 197.	2.5	8
39	Effect of O₂ on Partial Discharge Characteristic of C₅F_{10O}/CO₂ Gas Mixture. , 2021, , .		0
40	Insulation Performance and Electrical Field Sensitivity Properties of HFO-1336mzz(E)/CO₂: A New Eco-friendly Gas Insulating Medium. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1938-1948.	2.9	17
41	Adsorption behaviour of SO₂ and SOF₂ gas on Rh-doped BNNT: a DFT study. Molecular Physics, 2020, 118, e1580394.	1.7	32
42	A scientific writing pedagogy and mixed methods assessment for engineering education using open-coding and multi-dimensional scaling. International Journal of Technology and Design Education, 2020, 30, 413-426.	2.6	2
43	Plasma-assisted abatement of SF₆ in a dielectric barrier discharge reactor: investigation of the effect of packing materials. Journal Physics D: Applied Physics, 2020, 53, 025205.	2.8	17
44	Effects of Glass Beads Packing on SF6 Abatement by Packed Bed Plasma. Plasma Chemistry and Plasma Processing, 2020, 40, 43-59.	2.4	7
45	Thermal decomposition properties of fluoronitriles-N2 gas mixture as alternative gas for SF6. Journal of Fluorine Chemistry, 2020, 229, 109434.	1.7	8
46	Acute toxicity and health effect of perfluoroisobutyronitrile on mice: a promising substitute gas-insulating medium to SF₆. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 1646-1658.	1.7	8
47	Photoacoustic spectroscopy: Trace CO detection by using 10 mW near-infrared laser and cantilever beam. AIP Advances, 2020, 10, .	1.3	5
48	Detection of decomposition products of C4F7N-CO2 gas mixture based on infrared spectroscopy. Vibrational Spectroscopy, 2020, 110, 103114.	2.2	20
49	Transition metalâ€“N₄ embedded black phosphorus carbide as a high-performance bifunctional electrocatalyst for ORR/OER. Nanoscale, 2020, 12, 18721-18732.	5.6	39
50	First-Principles Insight into Pd-Doped ZnO Monolayers as a Promising Scavenger for Dissolved Gas Analysis in Transformer Oil. ACS Omega, 2020, 5, 17801-17807.	3.5	40
51	Computational screening of homo and hetero transition metal dimer catalysts for reduction of CO₂ to C₂ products with high activity and low limiting potential. Journal of Materials Chemistry A, 2020, 8, 21241-21254.	10.3	51
52	Effect of Oxygen and Temperature on Thermal Decomposition Characteristics of C₄F₇N/CO₂/O₂ Gas Mixture for MV Equipment. IEEE Access, 2020, 8, 221004-221012.	4.2	12
53	Adsorption of SF6 Decomposed Products on ZnO-Modified C3N: A Theoretical Study. Nanoscale Research Letters, 2020, 15, 186.	5.7	8
54	Research status of replacement gases for SF6 in power industry. AIP Advances, 2020, 10, .	1.3	39

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55	Interaction Mechanism between the C₄F₇Nâ€“CO₂ Gas Mixture and the EPDM Seal Ring. ACS Omega, 2020, 5, 5911-5920.	3.5	17
56	Study on the thermal decomposition characteristics of C ₄ F ₇ Nâ€“CO ₂ mixture as ecoâ€friendly gasâ€insulating medium. High Voltage, 2020, 5, 46-52.	4.7	40
57	The detection and quantification of heptafluoroisobutyronitrile(C4F7N) and its decomposition products by infrared spectroscopy and chemometrics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 233, 118161.	3.9	2
58	Synergistic Effects of Boron Nitride (BN) Nanosheets and Silver (Ag) Nanoparticles on Thermal Conductivity and Electrical Properties of Epoxy Nanocomposites. Polymers, 2020, 12, 426.	4.5	52
59	Research on Transformer Partial Discharge UHF Pattern Recognition Based on Cnn-lstm. Energies, 2020, 13, 61.	3.1	23
60	Ladderâ€Wise calculation method for zâ€coordinate of transformer PD source based on planar layout UHF antenna sensors. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 340-345.	1.4	35
61	Plasma-assisted abatement of SF₆ in a packed bed plasma reactor: understanding the effect of gas composition. Plasma Science and Technology, 2020, 22, 055502.	1.5	15
62	Thermal and mechanical properties study of boron nitride nanosheets decorated by silver/epoxy nanocomposites. SN Applied Sciences, 2020, 2, 1.	2.9	6
63	Theoretical calculation of total electron-impact ionization cross section of C6F12O. AIP Advances, 2020, 10, 035217.	1.3	9
64	Influence regularity of O ₂ on dielectric and decomposition properties of C ₄ F ₇ Nâ€“CO ₂ â€“O ₂ gas mixture for mediumâ€voltage equipment. High Voltage, 2020, 5, 256-263.	4.7	30
65	Corrections to â€œRu-InN Monolayer as a Gas Scavenger to Guard the Operation Status of SF₆ Insulation Devices: A First-Principles Theoryâ€•[Jul 19 5249-5255]. IEEE Sensors Journal, 2020, 20, 562-562.	4.7	4
66	Research Status of Insulation Detection Technology for Less Oil-Immersed Power Equipment. , 2020, , .		0
67	Method of Multi-Sample Maximum Correlation Wavelet High Energy Scale on Location Time Difference Calculation of Partial Discharge Source. , 2020, , .		0
68	Study on the Thermal Decomposition Characteristics of C5F10O/N2 Gas Mixture. , 2020, , .		0
69	Effect of O2 on The AC Breakdown Characteristics Of C5F10O/CO2. , 2020, , .		0
70	Photoacoustic Spectrum Detection of CO Based on Optimizing Non-resonant Photoacoustic Pool. , 2020, , .		2
71	Effect of Nickel Doping on Adsorption of SF6 Decomposition Products over MoS2 Surface. Jom, 2019, 71, 3971-3979.	1.9	13
72	Adsorption and decomposition of SF6 molecule on Î±-Al2O3 (0 0 0 1) surface: a DFT study. Adsorption, 2019, 25, 1625-1632.	3.0	16

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73	Facile Fabrication of Au Nanoparticles/Tin Oxide/Reduced Graphene Oxide Ternary Nanocomposite and Its High-Performance SF6 Decomposition Components Sensing. Frontiers in Chemistry, 2019, 7, 476.	3.6	11
74	Correction to â€œThermal Compatibility Between Perfluoroisobutyronitrile-CO2 Gas Mixture With Copper, Aluminum Switchgearâ€. IEEE Access, 2019, 7, 56770-56771.	4.2	0
75	Experimental Study on Compatibility of Eco-Friendly Insulating Medium C₅F₁₀O/CO₂ Gas Mixture With Copper and Aluminum. IEEE Access, 2019, 7, 83994-84002.	4.2	37
76	Overheating decomposition characteristics of epoxy dielectrics in SF₆ atmosphere. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1411-1417.	2.9	11
77	AC Breakdown and Decomposition Characteristics of Environmental Friendly Gas C₅F₁₀O/Air and C₅F₁₀O/N₂. IEEE Access, 2019, 7, 73954-73960.	4.2	56
78	Influence of oxygen on dielectric and decomposition properties of C₄F₇N-N₂-O₂ mixture. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1279-1286.	2.9	33
79	Using Pd-Doped Î³-Graphyne to Detect Dissolved Gases in Transformer Oil: A Density Functional Theory Investigation. Nanomaterials, 2019, 9, 1490.	4.1	37
80	Experimental study on the effect of O2 on the discharge decomposition products of C5-PFK/N2 mixtures. Journal of Materials Science: Materials in Electronics, 2019, 30, 19353-19361.	2.2	13
81	Sensing properties of Ni-doped boron nitride nanotube to SF6 decomposed components: A DFT study. AIP Advances, 2019, 9, .	1.3	30
82	First-principles insight into Ni-doped InN monolayer as a noxious gases scavenger. Applied Surface Science, 2019, 494, 859-866.	6.1	250
83	Rh-doped MoSe₂ as a toxic gas scavenger: a first-principles study. Nanoscale Advances, 2019, 1, 772-780.	4.6	261
84	Quantitative analysis of SO2, H2S and CS2 mixed gases based on ultraviolet differential absorption spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 215, 187-195.	3.9	26
85	Ab Initio Study of SOF₂ and SO₂F₂ Adsorption on Co-MoS₂. ACS Omega, 2019, 4, 2517-2522.	3.5	19
86	High selectivity n-type InSe monolayer toward decomposition products of sulfur hexafluoride: A density functional theory study. Applied Surface Science, 2019, 479, 852-862.	6.1	20
87	Assessment on the toxicity and application risk of C4F7N: A new SF6 alternative gas. Journal of Hazardous Materials, 2019, 368, 653-660.	12.4	78
88	Dissolved Gas Analysis in Transformer Oil Using Pt-Doped WSe₂ Monolayer Based on First Principles Method. IEEE Access, 2019, 7, 72012-72019.	4.2	58
89	Effect of oxygen on power frequency breakdown voltage and decomposition characteristics of the C₅F₁₀O/N₂/O₂ gas mixture. RSC Advances, 2019, 9, 18963-18970.	3.6	15
90	Research on C4F7N gas mixture detection based on infrared spectroscopy. Sensors and Actuators A: Physical, 2019, 294, 126-132.	4.1	11

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91	A First-Principles Study of the SF₆Decomposed Products Adsorbed Over Defective WS₂Monolayer as Promising Gas Sensing Device. IEEE Transactions on Device and Materials Reliability, 2019, 19, 473-483.	2.0	90
92	Decomposition Characteristics of SF6 under Flashover Discharge on the Epoxy Resin Surface. Materials, 2019, 12, 1408.	2.9	7
93	Repairing the N-vacancy in an InN monolayer using NO molecules: a first-principles study. Nanoscale Advances, 2019, 1, 2003-2008.	4.6	14
94	Theoretical study on the interaction between SF6 molecule and BaTiO3(0 0 1) surface: A DFT study. Applied Surface Science, 2019, 483, 409-416.	6.1	25
95	Optimized sleeve monopole antenna for detection of electrostatic discharge radiation of spacecraft solar array. Review of Scientific Instruments, 2019, 90, 015008.	1.3	2
96	Study on the thermal interaction mechanism between C4F7N-N2 and copper, aluminum. Corrosion Science, 2019, 153, 32-46.	6.6	32
97	Thermodynamic simulations of SrTiO3/epoxy nanocomposites with different mass fractions. SN Applied Sciences, 2019, 1, 1.	2.9	2
98	Ru-InN Monolayer as a Gas Scavenger to Guard the Operation Status of SF₆ Insulation Devices: A First-Principles Theory. IEEE Sensors Journal, 2019, 19, 5249-5255.	4.7	158
99	Different doping of penta-graphene as adsorbent and gas sensing material for scavenging and detecting SF6 decomposed species. Sustainable Materials and Technologies, 2019, 21, e00100.	3.3	11
100	Dissolved gas analysis in transformer oil using Pd catalyst decorated MoSe2 monolayer: A first-principles theory. Sustainable Materials and Technologies, 2019, 20, e00094.	3.3	99
101	Thermal Compatibility Between Perfluoroisobutyronitrile-CO₂ Gas Mixture With Copper and Aluminum Switchgear. IEEE Access, 2019, 7, 19792-19800.	4.2	15
102	Ultraviolet Spectral Analysis and Quantitative Detection of Heptafluoroisobutyronitrile (C₄F₇N) in a C₄F₇Nâ€“Carbon Dioxide (CO₂) Gas Mixture. Applied Spectroscopy, 2019, 73, 917-926.	2.2	21
103	Theoretical study of SF6 decomposition on the MoS2 monolayer doped with Ag, Ni, Au, Pt: a first-principles study. Adsorption, 2019, 25, 225-233.	3.0	12
104	On-Line Monitoring of Partial Discharge of Less-Oil Immersed Electric Equipment Based on Pressure and UHF. IEEE Access, 2019, 7, 11178-11186.	4.2	20
105	Experimental Study on Power Frequency Breakdown Characteristics of C₄F₇N/CO₂ Gas Mixture Under Quasi-Homogeneous Electric Field. IEEE Access, 2019, 7, 19100-19108.	4.2	27
106	Application of C ₆ F ₁₂ O/CO ₂ mixture in 10ÂkV mediumâ€voltage switchgear. IET Science, Measurement and Technology, 2019, 13, 1225-1230.	1.6	59
107	Nanomaterialsâ€based gas sensors of SF ₆ decomposed species for evaluating the operation status of highâ€voltage insulation devices. High Voltage, 2019, 4, 242-258.	4.7	124
108	Influence of Oxygen on the Thermal Decomposition Properties of C₄F₇Nâ€“N₂â€“O₂ as an Eco-Friendly Gas Insulating Medium. ACS Omega, 2019, 4, 18616-18626.	3.5	8

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109	Partial discharge characteristics of C6F12O/CO2 mixed gas at power frequency AC voltage. AIP Advances, 2019, 9, .	1.3	9
110	SF₆ abatement in a packed bed plasma reactor: study towards the effect of O₂ concentration. RSC Advances, 2019, 9, 34827-34836.	3.6	7
111	Thermal compatibility properties of C6F12O-air gas mixture with metal materials. AIP Advances, 2019, 9, .	1.3	12
112	Theoretical study on the interaction of heptafluoro-iso-butyronitrile decomposition products with Al (1 1 1). Molecular Physics, 2019, 117, 218-227.	1.7	4
113	Density functional theory study of small Ag cluster adsorbed on graphyne. Applied Surface Science, 2019, 465, 93-102.	6.1	46
114	Theoretical study on the interaction between C5-PFK and Al (1â€¯1â€¯1), Ag (1â€¯1â€¯1): A comparative study. Applied Surface Science, 2019, 464, 586-596.	6.1	31
115	Adsorption of SF6 decomposition components over Pd (1â€¯1â€¯1): A density functional theory study. Applied Surface Science, 2019, 465, 172-179.	6.1	112
116	Experimental study on the partial discharge and AC breakdown properties of C ₄ F ₇ N/CO ₂ mixture. High Voltage, 2019, 4, 12-17.	4.7	45
117	Using Single-Layer HfS₂ as Prospective Sensing Device Toward Typical Partial Discharge Gas in SF₆-Based Gas-Insulated Switchgear. IEEE Transactions on Electron Devices, 2019, 66, 689-695.	3.0	26
118	Insight into the compatibility between C4F7N and silver: Experiment and theory. Journal of Physics and Chemistry of Solids, 2019, 126, 105-111.	4.0	14
119	Insight into the decomposition mechanism of C6F12O-CO2 gas mixture. Chemical Engineering Journal, 2019, 360, 929-940.	12.7	50
120	Pt & Pd decorated CNT as a workable media for SOF2 sensing: A DFT study. Applied Surface Science, 2019, 471, 335-341.	6.1	125
121	Thermal Decomposition Properties of Epoxy Resin in SF6/N2 Mixture. Materials, 2019, 12, 75.	2.9	14
122	Detecting Decompositions of Sulfur Hexafluoride Using MoS₂ Monolayer as Gas Sensor. IEEE Sensors Journal, 2019, 19, 39-46.	4.7	51
123	High Selective SO₂ Gas Sensor Based on Monolayer <inline-formula> <tex-math notation="LaTeX">eta </tex-math> </inline-formula>-AsSb to Detect SF₆ Decompositions. IEEE Sensors Journal, 2019, 19, 1215-1223.	4.7	21
124	Pd-doped MoS2 monolayer: A promising candidate for DGA in transformer oil based on DFT method. Applied Surface Science, 2019, 470, 1035-1042.	6.1	248
125	Pristine and Cu decorated hexagonal InN monolayer, a promising candidate to detect and scavenge SF6 decompositions based on first-principle study. Journal of Hazardous Materials, 2019, 363, 346-357.	12.4	146
126	A review of hyperspectral imaging for nanoscale materials research. Applied Spectroscopy Reviews, 2019, 54, 285-305.	6.7	43

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127	Experimental research on insulation properties of C ₆ F ₁₂ O/N ₂ and C ₆ F ₁₂ O/CO ₂ gas mixtures. IET Generation, Transmission and Distribution, 2019, 13, 417-422.	2.5	19
128	Adsorption behavior of COF2 and CF4 gas on the MoS2 monolayer doped with Ni: A first-principles study. Applied Surface Science, 2018, 443, 274-279.	6.1	70
129	Adsorption mechanism of SF6 decomposed species on pyridine-like PtN3 embedded CNT: A DFT study. Applied Surface Science, 2018, 447, 594-598.	6.1	110
130	Detecting decompositions of sulfur hexafluoride using reduced graphene oxide decorated with Pt nanoparticles. Journal Physics D: Applied Physics, 2018, 51, 185304.	2.8	15
131	Adsorption behaviour of SF₆ decomposed species onto Pd₄-decorated single-walled CNT: a DFT study. Molecular Physics, 2018, 116, 1749-1755.	1.7	31
132	Effects of Reduced Electric Field on Sulfur Hexafluoride Removal for a Double Dielectric Barrier Discharge Reactor. IEEE Transactions on Plasma Science, 2018, 46, 563-570.	1.3	10
133	Decomposition characteristics of C5F10O/air mixture as substitutes for SF6 to reduce global warming. Journal of Fluorine Chemistry, 2018, 208, 65-72.	1.7	36
134	Noble metal (Pt or Au)-doped monolayer MoS2 as a promising adsorbent and gas-sensing material to SO2, SOF2 and SO2F2: a DFT study. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	105
135	Theoretical evaluation of the interaction between C5-PFK molecule and Cu (1 1 1). Journal of Fluorine Chemistry, 2018, 208, 48-54.	1.7	19
136	Adsorption and dissociation mechanism of SO2 and H2S on Pt decorated graphene: a DFT-D3 study. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	32
137	Decomposition Properties of C₄F₇N/N₂ Gas Mixture: An Environmentally Friendly Gas to Replace SF₆. Industrial & Engineering Chemistry Research, 2018, 57, 5173-5182.	3.7	126
138	The sensing mechanism of N-doped SWCNTs toward SF6 decomposition products: A first-principle study. Applied Surface Science, 2018, 440, 846-852.	6.1	72
139	Electronic structure and H2S adsorption property of Pt3 cluster decorated (8, 0) SWCNT. Applied Surface Science, 2018, 428, 82-88.	6.1	30
140	Dissociative adsorption of environment-friendly insulating medium C3F7CN on Cu(111) and Al(111) surface: A theoretical evaluation. Applied Surface Science, 2018, 434, 549-560.	6.1	45
141	Decomposition mechanism of the C5-PFK/CO2 gas mixture as an alternative gas for SF6. Chemical Engineering Journal, 2018, 336, 38-46.	12.7	72
142	Pt-doped single-walled CNT as a superior media for evaluating the operation status of insulation devices: A first-principle study. AIP Advances, 2018, 8, .	1.3	13
143	Optimization of PD Ultra High Frequency Antenna Sensor Based on Simplified Real Frequency Method. , 2018, , .		0
144	Synergistic treatment of SF6 by dielectric barrier discharge/Î³-Al2O3 catalysis. AIP Advances, 2018, 8, .	1.3	10

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145	Detecting decompositions of sulfur hexafluoride using Ge modified SWCNT: a theoretical evaluation. , 2018, , .		0
146	Study on localization of transformer partial discharge source with planar arrangement UHF sensors based on singular value elimination. AIP Advances, 2018, 8, 105232.	1.3	8
147	Partial Discharge Detection in Transformer Based on Optical Method. , 2018, , .		6
148	Study on Degradation of SF₆ in the Presence of H₂O and O₂ Using Dielectric Barrier Discharge. IEEE Access, 2018, 6, 72748-72756.	4.2	14
149	The Influence of O2 on Decomposition Characteristics of c-C4F8/N2 Environmental Friendly Insulating Gas. Processes, 2018, 6, 174.	2.8	11
150	Mono- and Bi-Molecular Adsorption of SF6 Decomposition Products on Pt Doped Graphene: A First-Principles Investigation. Applied Sciences (Switzerland), 2018, 8, 2010.	2.5	4
151	A Promising Gas Sensor Based on Monolayer $alpha $-SbN to Detect SO₂ Among SF₆ Decompositions. , 2018, 2, 1-4.		10
152	Adsorption of SF₆ Decomposed Products over ZnO(101Ì…0): Effects of O and Zn Vacancies. ACS Omega, 2018, 3, 18739-18752.	3.5	9
153	Influence of trace water on decomposition mechanism of c-C4F8 as environmental friendly insulating gas at high temperature. AIP Advances, 2018, 8, 125202.	1.3	2
154	Interaction of CO and CH₄ Adsorption with Noble Metal (Rh, Pd, and Pt)-Decorated N₃-CNTs: A First-Principles Study. ACS Omega, 2018, 3, 16892-16898.	3.5	16
155	Insights on decomposition process of c-C ₄ F ₈ and c-C ₄ F ₈ /N ₂ mixture as substitutes for SF ₆. Royal Society Open Science, 2018, 5, 181104.	2.4	6
156	Insight Into the Compatibility Between C₆F₁₂O and Metal Materials: Experiment and Theory. IEEE Access, 2018, 6, 58154-58160.	4.2	25
157	Ni-CNT Chemical Sensor for SF6 Decomposition Components Detection: A Combined Experimental and Theoretical Study. Sensors, 2018, 18, 3493.	3.8	24
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