Xiaoxing Zhang

List of Publications by Year in descending order

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271 papers

8,668 citations

50276 46 h-index 71685 **76** g-index

276 all docs

276 docs citations

times ranked

276

3134 citing authors

#	Article	IF	CITATIONS
1	Rh-doped MoSe ₂ as a toxic gas scavenger: a first-principles study. Nanoscale Advances, 2019, 1, 772-780.	4.6	261
2	First-principles insight into Ni-doped InN monolayer as a noxious gases scavenger. Applied Surface Science, 2019, 494, 859-866.	6.1	250
3	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
4	Partial discharge recognition through an analysis of SF ₆ decomposition products part 1: decomposition characteristics of SF ₆ under four different partial discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 29-36.	2.9	217
5	Experimental Sensing and Density Functional Theory Study of H ₂ S and SOF ₂ Adsorption on Auâ€Modified Graphene. Advanced Science, 2015, 2, 1500101.	11.2	213
6	Ru-InN Monolayer as a Gas Scavenger to Guard the Operation Status of SF ₆ Insulation Devices: A First-Principles Theory. IEEE Sensors Journal, 2019, 19, 5249-5255.	4.7	158
7	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
8	First-principles study of SF6 decomposed gas adsorbed on Au-decorated graphene. Applied Surface Science, 2016, 367, 259-269.	6.1	141
9	Partial discharge recognition through an analysis of SF ₆ decomposition products part 2: feature extraction and decision tree-based pattern recognition. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 37-44.	2.9	128
10	Correlation analysis between formation process of SF ₆ decomposed components and partial discharge qualities. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 864-875.	2.9	127
11	Decomposition Properties of C ₄ F ₇ N/N ₂ Gas Mixture: An Environmentally Friendly Gas to Replace SF ₆ . Industrial & Engineering Chemistry Research, 2018, 57, 5173-5182.	3.7	126
12	Pt & DFT study. Applied Surface Science, 2019, 471, 335-341.	6.1	125
13	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
14	Adsorption of SF6 decomposition components over Pd (1 1 1): A density functional theory study. Applied Surface Science, 2019, 465, 172-179.	6.1	112
15	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
16	TiO2 Nanotube Array Sensor for Detecting the SF6 Decomposition Product SO2. Sensors, 2012, 12, 3302-3313.	3.8	107
17	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
18	Analysis of adsorption properties of typical partial discharge gases on Ni-SWCNTs using density functional theory. Applied Surface Science, 2016, 379, 47-54.	6.1	104

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19	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
20	Adsorption of SF6 decomposition components on Pt3-TiO2(1 0 1) surface: A DFT study. Applied Surface Science, 2018, 459, 242-248.	6.1	90
21	A First-Principles Study of the SF ₆ Decomposed Products Adsorbed Over Defective WS ₂ Monolayer as Promising Gas Sensing Device. IEEE Transactions on Device and Materials Reliability, 2019, 19, 473-483.	2.0	90
22	A DFT study of SO ₂ and H ₂ S gas adsorption on Au-doped single-walled carbon nanotubes. Physica Scripta, 2014, 89, 065803.	2.5	86
23	Decomposition Mechanism of C ₅ F ₁₀ O: An Environmentally Friendly Insulation Medium. Environmental Science & Environmental Science	10.0	83
24	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
25	Decomposition characteristics of SF ₆ under thermal fault for temperatures below 400°C. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 995-1004.	2.9	77
26	Mechanism and Application of Carbon Nanotube Sensors in SF6 Decomposed Production Detection: a Review. Nanoscale Research Letters, 2017, 12, 177.	5.7	74
27	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
28	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
29	A simulation of Pd-doped SWCNTs used to detect SF 6 decomposition components under partial discharge. Applied Surface Science, 2014, 315, 196-202.	6.1	71
30	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
31	Theoretical Study of Monolayer PtSe ₂ as Outstanding Gas Sensor to Detect SF ₆ Decompositions. IEEE Electron Device Letters, 2018, 39, 1405-1408.	3.9	67
32	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
33	Dissolved Gas Analysis in Transformer Oil Using Pt-Doped WSe ₂ Monolayer Based on First Principles Method. IEEE Access, 2019, 7, 72012-72019.	4.2	58
34	AC Breakdown and Decomposition Characteristics of Environmental Friendly Gas C ₅ F ₁₀ O/Air and C ₅ F ₁₀ O/N ₂ . IEEE Access, 2019, 7, 73954-73960.	4.2	56
35	Theoretical Calculation of the Gas-Sensing Properties of Pt-Decorated Carbon Nanotubes. Sensors, 2013, 13, 15159-15171.	3.8	55
36	Gas Sensitivity and Sensing Mechanism Studies on Au-Doped TiO2 Nanotube Arrays for Detecting SF6 Decomposed Components. Sensors, 2014, 14, 19517-19532.	3.8	54

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37	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
38	Adsorption performance of Rh decorated SWCNT upon SF 6 decomposed components based on DFT method. Applied Surface Science, 2017, 420, 825-832.	6.1	53
39	Recent advances in decomposition of the most potent greenhouse gas SF ₆ . Critical Reviews in Environmental Science and Technology, 2017, 47, 1763-1782.	12.8	52
40	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
41	Effect of Plasma Treatment on Multi-Walled Carbon Nanotubes for the Detection of H2S and SO2. Sensors, 2012, 12, 9375-9385.	3.8	51
42	Detecting Decompositions of Sulfur Hexafluoride Using MoS ₂ Monolayer as Gas Sensor. IEEE Sensors Journal, 2019, 19, 39-46.	4.7	51
43	Computational screening of homo and hetero transition metal dimer catalysts for reduction of CO ₂ to C ₂ products with high activity and low limiting potential. Journal of Materials Chemistry A, 2020, 8, 21241-21254.	10.3	51
44	Theoretical study of the decomposition mechanism of environmentally friendly insulating medium C ₃ F ₇ CN in the presence of H ₂ O in a discharge. Journal Physics D: Applied Physics, 2017, 50, 325201.	2.8	50
45	Computational Thermomechanical Properties of Silica–Epoxy Nanocomposites by Molecular Dynamic Simulation. Polymers, 2017, 9, 430.	4.5	50
46	Insight into the decomposition mechanism of C6F12O-CO2 gas mixture. Chemical Engineering Journal, 2019, 360, 929-940.	12.7	50
47	Plasma-Catalytic Methanol Synthesis from CO ₂ Hydrogenation over a Supported Cu Cluster Catalyst: Insights into the Reaction Mechanism. ACS Catalysis, 2022, 12, 1326-1337.	11.2	50
48	Fourier transform infrared spectroscopy quantitative analysis of SF6 partial discharge decomposition components. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 884-889.	3.9	48
49	Insulation Strength and Decomposition Characteristics of a C6F12O and N2 Gas Mixture. Energies, 2017, 10, 1170, A review on SFX mml:math.xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml11"	3.1	48
50	display="inline" overflow="scroll" altimg="si1.gif"> <mml:msub><mml:mrow ><mml:mrow><mml:mn>6< mml:mn></mml:mn></mml:mrow></mml:mrow </mml:msub> substitute gases and research status of CF <mml:math <br="" id="mml12" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline" overflow="scroll" altimg="si12.gif"><mml:msub><mml:mrow< td=""><td>5.1</td><td>47</td></mml:mrow<></mml:msub></mml:math>	5.1	47
51	/> <mml:mrow> <mml:mn>3</mml:mn></mml:mrow> I gases. Energy Reports, StUdy on the influence mechanism of trace H₂0 on SF₆ thermal decomposition characteristic components. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 766-774.	2.9	46
52	Density functional theory study of small Ag cluster adsorbed on graphyne. Applied Surface Science, 2019, 465, 93-102.	6.1	46
53	Preparation and Application of TiO2 Nanotube Array Gas Sensor for SF6-Insulated Equipment Detection: a Review. Nanoscale Research Letters, 2016, 11, 302.	5.7	45
54	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

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55	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
56	Kernel statistical uncorrelated optimum discriminant vectors algorithm for GIS PD recognition. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 206-213.	2.9	43
57	A review of hyperspectral imaging for nanoscale materials research. Applied Spectroscopy Reviews, 2019, 54, 285-305.	6.7	43
58	Nanosecondâ€pulsed microbubble plasma reactor for plasmaâ€activated water generation and bacterial inactivation. Plasma Processes and Polymers, 2022, 19, .	3.0	43
59	Characteristics of the Concentration Ratio of $\Phi_{50}_{2}\$ to $\Phi_{50}_{2}\$ to $\Phi_{50}_{2}\$ as the Decomposition Products of $\Phi_{50}\$ Under Corona Discharge. IEEE Transactions on Plasma Science, 2012, 40, 56-62.	1.3	42
60	A DFT study of SF6 decomposed gas adsorption on an anatase (101) surface. Applied Surface Science, 2013, 286, 47-53.	6.1	42
61	A first principle simulation of competitive adsorption of SF6 decomposition components on nitrogen-doped anatase TiO2 (101) surface. Applied Surface Science, 2017, 422, 331-338.	6.1	42
62	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
63	Study on the thermal decomposition characteristics of C ₄ F ₇ N–CO ₂ mixture as ecoâ€friendly gasâ€insulating medium. High Voltage, 2020, 5, 46-52.	4.7	40
64	Experimental studies on power frequency breakdown voltage of CF3I/N2 mixed gas under different electric fields. Applied Physics Letters, 2016, 108, .	3.3	39
65	Transition metal–N ₄ embedded black phosphorus carbide as a high-performance bifunctional electrocatalyst for ORR/OER. Nanoscale, 2020, 12, 18721-18732.	5.6	39
66	Research status of replacement gases for SF6 in power industry. AIP Advances, 2020, 10, .	1.3	39
67	Feature parameters extraction of gis partial discharge signal with multifractal detrended fluctuation analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3037-3045.	2.9	38
68	Synthesis of Graphene-Based Sensors and Application on Detecting SF6 Decomposing Products: A Review. Sensors, 2017, 17, 363.	3.8	38
69	Theoretical Study on Decomposition Mechanism of Insulating Epoxy Resin Cured by Anhydride. Polymers, 2017, 9, 341.	4.5	38
70	A Transformer Partial Discharge Measurement System Based on Fluorescent Fiber. Energies, 2012, 5, 1490-1502.	3.1	37
71	A Pt-Doped TiO2 Nanotube Arrays Sensor for Detecting SF6 Decomposition Products. Sensors, 2013, 13, 14764-14776.	3.8	37
72	Relationship between decomposition gas ratios and partial discharge energy in GIS, and the influence of residual water and oxygen. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1226-1234.	2.9	37

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73	A Ni-Doped Carbon Nanotube Sensor for Detecting Oil-Dissolved Gases in Transformers. Sensors, 2015, 15, 13522-13532.	3.8	37
74	Experimental Study on Compatibility of Eco-Friendly Insulating Medium C ₅ F ₁₀ O/CO ₂ Gas Mixture With Copper and Aluminum. IEEE Access, 2019, 7, 83994-84002.	4.2	37
75	Using Pd-Doped \hat{I}^3 -Graphyne to Detect Dissolved Gases in Transformer Oil: A Density Functional Theory Investigation. Nanomaterials, 2019, 9, 1490.	4.1	37
76	Influence regularity of trace H ₂ O on SF ₆ decomposition characteristics under partial discharge of needle-plate electrode. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 287-295.	2.9	36
77	Reactive molecular dynamics study of the decomposition mechanism of the environmentally friendly insulating medium C ₃ F ₇ CN. RSC Advances, 2017, 7, 50663-50671.	3.6	36
78	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
79	Borophene: a promising adsorbent material with strong ability and capacity for SO2 adsorption. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	36
80	The adsorption performance of harmful gas on Cu doped WS2: A first-principle study. Materials Today Communications, 2021, 28, 102488.	1.9	36
81	Abatement of SF6 in the presence of NH3 by dielectric barrier discharge plasma. Journal of Hazardous Materials, 2018, 360, 341-348.	12.4	35
82	Ladderâ€Wise calculation method for <i>z</i> àê€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
83	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
84	Influence of oxygen on dielectric and decomposition properties of C ₄ F ₇ N-N ₂ -O ₂ mixture. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1279-1286.	2.9	33
85	Theoretical screening into Ru-doped MoS ₂ monolayer as a promising gas sensor upon SO ₂ and SOF ₂ in SF ₆ insulation devices. Molecular Physics, 2022, 120, .	1.7	33
86	Adsorption characteristic of Pd-4 cluster carbon nanotube towards transformer oil dissolved components: A simulation. Applied Surface Science, 2017, 419, 802-810.	6.1	32
87	Understanding of SF 6 decompositions adsorbed on cobalt-doped SWCNT: A DFT study. Applied Surface Science, 2017, 420, 371-382.	6.1	32
88	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
89	Study on the thermal interaction mechanism between C4F7N-N2 and copper, aluminum. Corrosion Science, 2019, 153, 32-46.	6.6	32
90	Adsorption behaviour of SO ₂ and SOF ₂ gas on Rh-doped BNNT: a DFT study. Molecular Physics, 2020, 118, e1580394.	1.7	32

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91	The sensitivity of C ₄ F ₇ N to electric field and its influence to environment-friendly insulating gas mixture C ₄ F ₇ N/CO ₂ . Journal Physics D: Applied Physics, 2021, 54, 055501.	2.8	32
92	Experimental analysis of the feasibility of CF ₃ I/CO ₂ substituting SF ₆ as insulation medium using needle-plate electrodes. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1895-1900.	2.9	31
93	Adsorption of gases from SF6 decomposition on aluminum-doped SWCNTs: a density functional theory study. European Physical Journal D, 2015, 69, 1.	1.3	31
94	Adsorption behaviour of SF ₆ decomposed species onto Pd ₄ -decorated single-walled CNT: a DFT study. Molecular Physics, 2018, 116, 1749-1755.	1.7	31
95	Theoretical study on the interaction between C5-PFK and Al (1†1†1), Ag (1†1†1): A comparative study. Ap Surface Science, 2019, 464, 586-596.	plied 6.1	31
96	Cantilever enhanced photoacoustic spectrometry: Quantitative analysis of the trace H2S produced by SF6 decomposition. Infrared Physics and Technology, 2016, 78, 31-39.	2.9	30
97	Assessment of PD severity in gasâ€insulated switchgear with an SSAE. IET Science, Measurement and Technology, 2017, 11, 423-430.	1.6	30
98	Electronic structure and H2S adsorption property of Pt3 cluster decorated (8, 0) SWCNT. Applied Surface Science, 2018, 428, 82-88.	6.1	30
99	Study on the Dielectric Properties of C ₄ F ₇ N/N ₂ Mixture Under Highly Non-Uniform Electric Field. IEEE Access, 2018, 6, 42868-42876.	4.2	30
100	Theoretical study of the interaction of SF6 molecule on Ag($1\hat{a}\in 1\hat{a}\in 1$) surfaces: A DFT study. Applied Surface Science, 2018, 457, 745-751.	6.1	30
101	Sensing properties of Ni-doped boron nitride nanotube to SF6 decomposed components: A DFT study. AIP Advances, 2019, 9, .	1.3	30
102	Influence regularity of O ₂ on dielectric and decomposition properties of C ₄ F ₇ N–CO ₂ –O ₂ gas mixture for mediumâ€voltage equipment. High Voltage, 2020, 5, 256-263.	4.7	30
103	Effects of micro-water on decomposition of the environment-friendly insulating medium C5F10O. AIP Advances, 2017, 7, .	1.3	29
104	Quantitative detection of H ₂ S and CS ₂ mixed gases based on UV absorption spectrometry. RSC Advances, 2017, 7, 50889-50898.	3.6	29
105	Adsorption of SF6 decomposed gas on anatase (101) and (001) surfaces with oxygen defect: A density functional theory study. Scientific Reports, 2014, 4, 4762.	3.3	28
106	Theoretical and experimental study on competitive adsorption of SF6 decomposed components on Au-modified anatase (101) surface. Applied Surface Science, 2016, 387, 437-445.	6.1	28
107	Theoretical study of the adsorption of SF6 decomposition components on Ni($1\hat{a}\in 1\hat{a}\in 1$) surface. Computational Materials Science, 2018, 152, 248-255.	3.0	28
108	Experimental and simulation analysis on by-products of treatment of SF <inf>6</inf> using dielectric barrier discharge. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1617-1624.	2.9	27

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109	Experimental Study on Power Frequency Breakdown Characteristics of C ₄ F ₇ N/CO ₂ Gas Mixture Under Quasi-Homogeneous Electric Field. IEEE Access, 2019, 7, 19100-19108.	4.2	27
110	Dissolved gas analysis in transformer oil using Ni-Doped GaN monolayer: A DFT study. Superlattices and Microstructures, 2021, 159, 107055.	3.1	27
111	Analysis of the feasibility of CF <suv>31/CO₂ used in C-GIS by partial discharge inception voltages in positive half cycle and breakdown voltages. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3234-3243.</suv>	2.9	26
112	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
113	Using Single-Layer HfS ₂ as Prospective Sensing Device Toward Typical Partial Discharge Gas in SF ₆ -Based Gas-Insulated Switchgear. IEEE Transactions on Electron Devices, 2019, 66, 689-695.	3.0	26
114	Influence of humidity on the decomposition products and insulating characteristics of CF <inf>Jinf>Liee Transactions on Dielectrics and Electrical Insulation, 2016, 23, 819-828.</inf>	2.9	25
115	Insight Into the Compatibility Between C ₆ F ₁₂ O and Metal Materials: Experiment and Theory. IEEE Access, 2018, 6, 58154-58160.	4.2	25
116	Sulfur dioxide adsorbed on pristine and Au dimer decorated \hat{I}^3 -graphyne: A density functional theory study. Applied Surface Science, 2018, 458, 781-789.	6.1	25
117	Geometric structure and SOF2 adsorption behavior of Ptn (n=1-4) clustered (8, 0) single-walled CNT using density functional theory. Journal of Fluorine Chemistry, 2018, 211, 148-153.	1.7	25
118	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
119	Highly sensitive and selective polyaniline thin-film sensors for detecting SF6 decomposition products at room temperature. Synthetic Metals, 2015, 200, 74-79.	3.9	24
120	Investigation of partial discharge between moving charged metal particles and electrodes in insulating oil under flow state and AC condition. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1099-1105.	2.9	24
121	Formation mechanism of CF ₃ I discharge components and effect of oxygen on decomposition. Journal Physics D: Applied Physics, 2017, 50, 155601.	2.8	24
122	Ni-CNT Chemical Sensor for SF6 Decomposition Components Detection: A Combined Experimental and Theoretical Study. Sensors, 2018, 18, 3493.	3.8	24
123	The influence of oxygen on thermal decomposition characteristics of epoxy resins cured by anhydride. Polymer Degradation and Stability, 2018, 156, 125-131.	5.8	23
124	Research on Transformer Partial Discharge UHF Pattern Recognition Based on Cnn-lstm. Energies, 2020, 13, 61.	3.1	23
125	Design of a New Built-in UHF Multi-Frequency Antenna Sensor for Partial Discharge Detection in High-Voltage Switchgears. Sensors, 2016, 16, 1170.	3.8	22
126	Review on decomposition characteristics of eco-friendly gas insulating medium for high voltage gas insulated equipment. Journal Physics D: Applied Physics, 0, , .	2.8	22

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127	Ultraviolet Spectral Analysis and Quantitative Detection of Heptafluoroisobutyronitrile (C ₄ F ₇ Nîe"Carbon Dioxide (CO ₂) Gas Mixture. Applied Spectroscopy, 2019, 73, 917-926.	2.2	21
128	High Selective SO ₂ Gas Sensor Based on Monolayer <inline-formula> <tex-math notation="LaTeX">\$eta\$ </tex-math> </inline-formula>-AsSb to Detect SF ₆ Decompositions. IEEE Sensors Journal, 2019, 19, 1215-1223.	4.7	21
129	Effects of background gas on sulfur hexafluoride removal by atmospheric dielectric barrier discharge plasma. AIP Advances, 2016, 6, .	1.3	20
130	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
131	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
132	Detection of decomposition products of C4F7N-CO2 gas mixture based on infrared spectroscopy. Vibrational Spectroscopy, 2020, 110, 103114.	2.2	20
133	Reconstructing and extracting information on SF ₆ decomposition characteristic components induced by partial overthermal fault in GIE. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 183-193.	2.9	19
134	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
135	Insights into the interaction between C4F7N decomposition products and Cu $(1\ 1\ 1)$, Ag $(1\ 1\ 1)$ surface. Journal of Fluorine Chemistry, 2018, 213, 24-30.	1.7	19
136	Detection of Ozone and Nitric Oxide in Decomposition Products of Air-Insulated Switchgear Using Ultraviolet Differential Optical Absorption Spectroscopy (UV-DOAS). Applied Spectroscopy, 2018, 72, 1244-1251.	2.2	19
137	Adsorption mechanism of SF6 decomposition components onto N, F-co-doped TiO2: A DFT study. Journal of Fluorine Chemistry, 2018, 213, 18-23.	1.7	19
138	Ab Initio Study of SOF ₂ and SO ₂ F ₂ Adsorption on Co-MoS ₂ . ACS Omega, 2019, 4, 2517-2522.	3 . 5	19
139	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
140	Investigation of Gas-Sensing Property of Acid-Deposited Polyaniline Thin-Film Sensors for Detecting H2S and SO2. Sensors, 2016, 16, 1889.	3.8	18
141	Optical technology for detecting the decomposition products of SF6: a review. Optical Engineering, 2018, 57, 1.	1.0	18
142	Research on infrared spectrum characteristics and detection technology of environmental-friendly insulating medium C5F10O. Vibrational Spectroscopy, 2022, 118, 103336.	2.2	18
143	Use of hydroxyl-modified carbon nanotubes for detecting SF ₆ decomposition products under partial discharge in gas insulated switchgear. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 2246-2253.	2.9	17
144	Study on the Thermal and Dielectric Properties of SrTiO3/Epoxy Nanocomposites. Energies, 2017, 10, 692.	3.1	17

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145	Plasma-assisted abatement of SF ₆ in a dielectric barrier discharge reactor: investigation of the effect of packing materials. Journal Physics D: Applied Physics, 2020, 53, 025205.	2.8	17
146	Interaction Mechanism between the C ₄ F ₇ N–CO ₂ Gas Mixture and the EPDM Seal Ring. ACS Omega, 2020, 5, 5911-5920.	3.5	17
147	Insulation Performance and Electrical Field Sensitivity Properties of HFO-1336mzz(E)/CO ₂ : A New Eco-friendly Gas Insulating Medium. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1938-1948.	2.9	17
148	Influence regularity of trace O6 on SF6 decomposition characteristics and its mathematical amendment under partial discharge. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 105-115.	2.9	16
149	AC breakdown characteristics of CF ₃ I/N ₂ in a non-uniform electric field. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2649-2656.	2.9	16
150	Secure smart grid communications and information integration based on digital watermarking in wireless sensor networks. Enterprise Information Systems, 2017, 11, 223-249.	4.7	16
151	Experimental studies on the power–frequency breakdown voltage of CF3I/N2/CO2 gas mixture. Journal of Applied Physics, 2017, 121, .	2.5	16
152	Interaction of CO and CH ₄ Adsorption with Noble Metal (Rh, Pd, and Pt)-Decorated N ₃ -CNTs: A First-Principles Study. ACS Omega, 2018, 3, 16892-16898.	3.5	16
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