

Yi Li

List of Publications by Year in descending order

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62
papers

2,302
citations

172457

29
h-index

223800

46
g-index

63
all docs

63
docs citations

63
times ranked

1027
citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles insight into Ni-doped InN monolayer as a noxious gases scavenger. Applied Surface Science, 2019, 494, 859-866.	6.1	250
2	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
3	Noble metal (Pt or Au)-doped monolayer MoS ₂ as a promising adsorbent and gas-sensing material to SO ₂ , SOF ₂ and SO ₂ F ₂ : a DFT study. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	105
4	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. ACS Nano, 2021, 15, 5307-5315.	14.6	99
5	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
6	Decomposition Mechanism of C ₅ F ₁₀ O: An Environmentally Friendly Insulation Medium. Environmental Science & Technology, 2017, 51, 10127-10136.	10.0	83
7	Assessment on the toxicity and application risk of C ₄ F ₇ N: A new SF ₆ alternative gas. Journal of Hazardous Materials, 2019, 368, 653-660.	12.4	78
8	Decomposition mechanism of the C ₅ -PFK/CO ₂ gas mixture as an alternative gas for SF ₆ . Chemical Engineering Journal, 2018, 336, 38-46.	12.7	72
9	Adsorption behavior of COF ₂ and CF ₄ gas on the MoS ₂ monolayer doped with Ni: A first-principles study. Applied Surface Science, 2018, 443, 274-279.	6.1	70
10	Application of C ₆ F ₁₂ O/CO ₂ mixture in 10kV medium-voltage switchgear. IET Science, Measurement and Technology, 2019, 13, 1225-1230.	1.6	59
11	Detecting Decompositions of Sulfur Hexafluoride Using MoS ₂ Monolayer as Gas Sensor. IEEE Sensors Journal, 2019, 19, 39-46.	4.7	51
12	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
13	Insight into the decomposition mechanism of C ₆ F ₁₂ O-CO ₂ gas mixture. Chemical Engineering Journal, 2019, 360, 929-940.	12.7	50
14	Printable elastomeric electrodes with sweat-enhanced conductivity for wearables. Science Advances, 2021, 7, .	10.3	50
15	Insulation Strength and Decomposition Characteristics of a C ₆ F ₁₂ O and N ₂ Gas Mixture. Energies, 2017, 10, 1170.	3.1	48
16	Density functional theory study of small Ag cluster adsorbed on graphyne. Applied Surface Science, 2019, 465, 93-102.	6.1	46
17	Dissociative adsorption of environment-friendly insulating medium C ₃ F ₇ CN on Cu(111) and Al(111) surface: A theoretical evaluation. Applied Surface Science, 2018, 434, 549-560.	6.1	45
18	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

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19	Dynamics of surface charge and electric field distributions on basin-type insulator in GIS/GIL due to voltage polarity reversal. <i>High Voltage</i> , 2020, 5, 151-159.	4.7	42
20	Study on the thermal decomposition characteristics of C ₄ F ₇ Nâ€“CO ₂ mixture as eco-friendly gas-insulating medium. <i>High Voltage</i> , 2020, 5, 46-52.	4.7	40
21	Research status of replacement gases for SF6 in power industry. <i>AIP Advances</i> , 2020, 10, .	1.3	39
22	Reactive molecular dynamics study of the decomposition mechanism of the environmentally friendly insulating medium C ₃ F ₇ CN. <i>RSC Advances</i> , 2017, 7, 50663-50671.	3.6	36
23	Decomposition characteristics of C5F10O/air mixture as substitutes for SF6 to reduce global warming. <i>Journal of Fluorine Chemistry</i> , 2018, 208, 65-72.	1.7	36
24	Abatement of SF6 in the presence of NH3 by dielectric barrier discharge plasma. <i>Journal of Hazardous Materials</i> , 2018, 360, 341-348.	12.4	35
25	Adsorption and dissociation mechanism of SO2 and H2S on Pt decorated graphene: a DFT-D3 study. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	32
26	Study on the thermal interaction mechanism between C4F7N-N2 and copper, aluminum. <i>Corrosion Science</i> , 2019, 153, 32-46.	6.6	32
27	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 . <i>Journal Physics D: Applied Physics</i> , 2021, 54, 055501.	2.8	32
28	Theoretical study on the interaction between C5-PFK and Al (1â€“1), Ag (1â€“1): A comparative study. <i>Applied Surface Science</i> , 2019, 464, 586-596.	6.1	31
29	Study on the Dielectric Properties of C ₄ F ₇ N/N ₂ Mixture Under Highly Non-Uniform Electric Field. <i>IEEE Access</i> , 2018, 6, 42868-42876.	4.2	30
30	Theoretical study of the interaction of SF6 molecule on Ag(1â€“1) surfaces: A DFT study. <i>Applied Surface Science</i> , 2018, 457, 745-751.	6.1	30
31	Influence regularity of O ₂ on dielectric and decomposition properties of C ₄ F ₇ Nâ€“CO ₂ â€“O ₂ gas mixture for medium-voltage equipment. <i>High Voltage</i> , 2020, 5, 256-263.	4.7	30
32	Effects of micro-water on decomposition of the environment-friendly insulating medium C5F10O. <i>AIP Advances</i> , 2017, 7, .	1.3	29
33	Using Single-Layer HfS ₂ as Prospective Sensing Device Toward Typical Partial Discharge Gas in SF ₆ -Based Gas-Insulated Switchgear. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 689-695.	3.0	26
34	Sulfur dioxide adsorbed on pristine and Au dimer decorated Î³-graphyne: A density functional theory study. <i>Applied Surface Science</i> , 2018, 458, 781-789.	6.1	25
35	Formation mechanism of CF ₃ I discharge components and effect of oxygen on decomposition. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 155601.	2.8	24
36	Review on decomposition characteristics of eco-friendly gas insulating medium for high voltage gas insulated equipment. <i>Journal Physics D: Applied Physics</i> , 0, , .	2.8	22

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37	The influence of Cu, Al and Fe free metal particles on the insulating performance of SF ₆ in C-GIS. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2299-2305.	2.9	21
38	High Selective SO ₂ Gas Sensor Based on Monolayer AsSb to Detect SF ₆ Decompositions. IEEE Sensors Journal, 2019, 19, 1215-1223.	4.7	21
39	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
40	Theoretical evaluation of the interaction between C ₅ -PFK molecule and Cu (1 1 1). Journal of Fluorine Chemistry, 2018, 208, 48-54.	1.7	19
41	Insights into the interaction between C ₄ F ₇ N decomposition products and Cu (1 1 1), Ag (1 1 1) surface. Journal of Fluorine Chemistry, 2018, 213, 24-30.	1.7	19
42	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
43	Experimental studies on the power frequency breakdown voltage of CF ₃ I/N ₂ /CO ₂ gas mixture. Journal of Applied Physics, 2017, 121, .	2.5	16
44	Detecting decompositions of sulfur hexafluoride using reduced graphene oxide decorated with Pt nanoparticles. Journal Physics D: Applied Physics, 2018, 51, 185304.	2.8	15
45	Effect of oxygen on power frequency breakdown voltage and decomposition characteristics of the C ₅ F ₁₀ O ₂ /O ₂ gas mixture. RSC Advances, 2019, 9, 18963-18970.	3.6	15
46	Insight into the compatibility between C ₄ F ₇ N and silver: Experiment and theory. Journal of Physics and Chemistry of Solids, 2019, 126, 105-111.	4.0	14
47	Theoretical study of SF ₆ decomposition on the MoS ₂ monolayer doped with Ag, Ni, Au, Pt: a first-principles study. Adsorption, 2019, 25, 225-233.	3.0	12
48	Thermal compatibility properties of C ₆ F ₁₂ O-air gas mixture with metal materials. AIP Advances, 2019, 9, .	1.3	12
49	Effect of Oxygen and Temperature on Thermal Decomposition Characteristics of C ₄ F ₇ N/CO ₂ /O ₂ Gas Mixture for MV Equipment. IEEE Access, 2020, 8, 221004-221012.	4.2	12
50	The Influence of O ₂ on Decomposition Characteristics of c-C ₄ F ₈ /N ₂ Environmental Friendly Insulating Gas. Processes, 2018, 6, 174.	2.8	11
51	Research on C ₄ F ₇ N gas mixture detection based on infrared spectroscopy. Sensors and Actuators A: Physical, 2019, 294, 126-132.	4.1	11
52	Different doping of penta-graphene as adsorbent and gas sensing material for scavenging and detecting SF ₆ decomposed species. Sustainable Materials and Technologies, 2019, 21, e00100.	3.3	11
53	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
54	Partial discharge characteristics of C ₆ F ₁₂ O/CO ₂ mixed gas at power frequency AC voltage. AIP Advances, 2019, 9, .	1.3	9

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55	Influence of Oxygen on the Thermal Decomposition Properties of C ₄ F ₇ N ₂ O ₂ as an Eco-Friendly Gas Insulating Medium. ACS Omega, 2019, 4, 18616-18626.	3.5	8
56	Thermal decomposition properties of fluoronitriles-N ₂ gas mixture as alternative gas for SF ₆ . Journal of Fluorine Chemistry, 2020, 229, 109434.	1.7	8
57	Study on the Compatibility of Eco-Friendly Insulating Gas C ₅ F ₁₀ /N ₂ and C ₅ F ₁₀ /Air with Copper Materials in Gas-Insulated Switchgears. Applied Sciences (Switzerland), 2021, 11, 197.	2.5	8
58	Arc decomposition behavior of C ₄ F ₇ N/Air gas mixture and biosafety evaluation of its by-products. High Voltage, 2022, 7, 856-865.	4.7	7
59	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
60	Study on the influence of O ₂ on the breakdown voltage and self-recovery characteristics of c-C ₄ F ₈ /N ₂ mixture. AIP Advances, 2018, 8, 085121.	1.3	5
61	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
62	Influence of trace water on decomposition mechanism of c-C ₄ F ₈ as environmental friendly insulating gas at high temperature. AIP Advances, 2018, 8, 125202.	1.3	2