Shuangshuang Tian

List of Publications by Year
in descending order

27	818	471509 17	526287 27
papers	citations	h-index	g-index

29	29	29	420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decomposition Mechanism of C₅F₁₀O: An Environmentally Friendly Insulation Medium. Environmental Science & Technology, 2017, 51, 10127-10136.	10.0	83
2	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
3	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
4	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
5	Theoretical study of the decomposition mechanism of environmentally friendly insulating medium C₃F₇CN in the presence of H₂O in a discharge. Journal Physics D: Applied Physics, 2017, 50, 325201.	2.8	50
6	Insight into the decomposition mechanism of C6F12O-CO2 gas mixture. Chemical Engineering Journal, 2019, 360, 929-940.	12.7	50
7	Insulation Strength and Decomposition Characteristics of a C6F12O and N2 Gas Mixture. Energies, 2017, 10, 1170.	3.1	48
8	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
9	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
10	Research status of replacement gases for SF6 in power industry. AIP Advances, 2020, 10, .	1.3	39
11	Reactive molecular dynamics study of the decomposition mechanism of the environmentally friendly insulating medium C₃F₇CN. RSC Advances, 2017, 7, 50663-50671.	3.6	36
12	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
13	Effects of micro-water on decomposition of the environment-friendly insulating medium C5F10O. AIP Advances, 2017, 7, .	1.3	29
14	Insight Into the Compatibility Between C₆F₁₂O and Metal Materials: Experiment and Theory. IEEE Access, 2018, 6, 58154-58160.	4.2	25
15	Formation mechanism of CF₃I discharge components and effect of oxygen on decomposition. Journal Physics D: Applied Physics, 2017, 50, 155601.	2.8	24
16	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
17	Research on infrared spectrum characteristics and detection technology of environmental-friendly insulating medium C5F10O. Vibrational Spectroscopy, 2022, 118, 103336.	2.2	18
18	Experimental studies on the powerâ€“frequency breakdown voltage of CF3I/N2/CO2 gas mixture. Journal of Applied Physics, 2017, 121, .	2.5	16

#	Article	IF	Citations
19	Partial discharge decomposition characteristics of typical defects in the gas chamber of SF<inf>6</inf> insulated ring network cabinet. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1794-1801.	2.9	13
20	Thermal compatibility properties of C6F12O-air gas mixture with metal materials. AIP Advances, 2019, 9, .	1.3	12
21	The Influence of O2 on Decomposition Characteristics of c-C4F8/N2 Environmental Friendly Insulating Gas. Processes, 2018, 6, 174.	2.8	11
22	Partial discharge characteristics of C6F12O/CO2 mixed gas at power frequency AC voltage. AIP Advances, 2019, 9, .	1.3	9
23	Theoretical calculation of total electron-impact ionization cross section of C6F12O. AIP Advances, 2020, 10, 035217.	1.3	9
24	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
25	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
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	Study on the influence of O2 on the breakdown voltage and self-recovery characteristics of c-C4F8/N2 mixture. AIP Advances, 2018, 8, 085121.	1.3	5