

Xiao-Hua Wang

List of Publications by Year in descending order

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197
papers

3,978
citations

126907

33
h-index

161849

54
g-index

197
all docs

197
docs citations

197
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	Fault Diagnosis of SF ₆ -Insulated Equipment by Micro Gas Sensor Array. IEEE Transactions on Power Delivery, 2023, 38, 222-230.	4.3	23
2	Detection of decomposition products of SF ₆ /air gas mixture by electron attachment mass spectrometry. High Voltage, 2022, 7, 536-544.	4.7	4
3	Overheat diagnosis of power cable based on gas sensors: Device/material exploration. Sensors and Actuators B: Chemical, 2022, 350, 130837.	7.8	3
4	Upcycle hazard against other hazard: Toxic fluorides from plasma fluoropolymer etching turn novel microbial disinfectants. Journal of Hazardous Materials, 2022, 424, 127658.	12.4	7
5	A High-Impedance Fault Detection Method for Distribution Systems Based on Empirical Wavelet Transform and Differential Faulty Energy. IEEE Transactions on Smart Grid, 2022, 13, 900-912.	9.0	53
6	Lightweight Neural Network for Gas Identification Based on Semiconductor Sensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	6
7	Study on spark discharge enhanced laser-induced breakdown spectroscopy of Fe particles in transformer oil. Journal of Analytical Atomic Spectrometry, 2022, 37, 381-389.	3.0	1
8	Low-Frequency Wireless Power Transfer Via Rotating Permanent Magnets. IEEE Transactions on Industrial Electronics, 2022, 69, 10656-10665.	7.9	11
9	Decomposition Products and Mechanism of C ₅ F ₁₀ O/N ₂ Gas Mixture by Electron Attachment Mass Spectrometry. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1127-1134.	2.9	2
10	Study on the Insulation Performance and Decomposition Characteristics of C ₅ F ₁₀ O/CO ₂ Gas Mixture. Plasma Chemistry and Plasma Processing, 2022, 42, 957-971.	2.4	4
11	Plasma-activated water: An alternative disinfectant for S protein inactivation to prevent SARS-CoV-2 infection. Chemical Engineering Journal, 2021, 421, 127742.	12.7	109
12	Identification of gas mixtures via sensor array combining with neural networks. Sensors and Actuators B: Chemical, 2021, 329, 129090.	7.8	106
13	Multicomponent SF ₆ decomposition product sensing with a gas-sensing microchip. Microsystems and Nanoengineering, 2021, 7, 18.	7.0	6
14	Effects of H ₂ O and O ₂ Impurities on the Trichel Pulses Characteristics of the Negative Point-Plane Corona Discharge in SF ₆ . Plasma Chemistry and Plasma Processing, 2021, 41, 1101.	2.4	2
15	Experimental Studies on Insulation and Arc Extinguishing Performance of C ₅ F ₁₀ O/CO ₂ Gas Mixture. , 2021, , .		1
16	Cold Atmospheric-Pressure Plasma Caused Protein Damage in Methicillin-Resistant Staphylococcus aureus Cells in Biofilms. Microorganisms, 2021, 9, 1072.	3.6	12
17	Hybrid piezo/triboelectric nanogenerator for stray magnetic energy harvesting and self-powered sensing applications. High Voltage, 2021, 6, 978-985.	4.7	12
18	Fault detection and isolation for discrete-time Markovian jump systems with generally bounded transition probabilities: A zonotope-based method. Transactions of the Institute of Measurement and Control, 2021, 43, 2948-2959.	1.7	2

#	ARTICLE	IF	CITATIONS
19	Low-Temperature Gas Plasma Combined with Antibiotics for the Reduction of Methicillin-Resistant Staphylococcus aureus Biofilm Both In Vitro and In Vivo. <i>Life</i> , 2021, 11, 828.	2.4	0
20	A Bayesian Deep Learning RUL Framework Integrating Epistemic and Aleatoric Uncertainties. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 8829-8841.	7.9	44
21	Simplification of plasma chemistry by means of vital nodes identification. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	2
22	Detection and analysis of spark discharge products of C ₅ F ₁₀ O by electron attachment mass spectrometry. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 045201.	2.8	7
23	Dynamics of laser-induced plasma splitting. <i>Optics and Lasers in Engineering</i> , 2020, 124, 105832.	3.8	18
24	Single ultrathin WO ₃ nanowire as a superior gas sensor for SO ₂ and H ₂ S: Selective adsorption and distinct I-V response. <i>Materials Chemistry and Physics</i> , 2020, 240, 122165.	4.0	55
25	Theoretical study on decomposition pathways and reaction rate constants of C ₄ F ₇ N with O atom. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 105202.	2.8	13
26	Short period sinusoidal thermal modulation for quantitative identification of gas species. <i>Nanoscale</i> , 2020, 12, 220-229.	5.6	30
27	Calculation of two-temperature plasma composition: II. Consideration of condensed phases. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 065203.	2.8	7
28	Calculation of two-temperature plasma composition: I. Mass action law methods and extremum searching methods. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 065202.	2.8	7
29	Enhanced sensing of sulfur hexafluoride decomposition components based on noble-metal-functionalized cerium oxide. <i>Materials and Design</i> , 2020, 187, 108391.	7.0	16
30	The Decomposition Pathways of SF ₆ in the Presence of Organic Insulator Vapors. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 449-467.	2.4	9
31	A Deep Learning Method to Detect Foreign Objects for Inspecting Power Transmission Lines. <i>IEEE Access</i> , 2020, 8, 94065-94075.	4.2	21
32	Numerical simulation of the Trichel pulse characteristics in SF ₆ /N ₂ gas mixtures. <i>Physics of Plasmas</i> , 2020, 27, 113508.	1.9	8
33	Tunable SO ₂ -sensing performance of arsenene induced by Stone-Wales defects and external electric field. <i>Applied Surface Science</i> , 2020, 523, 146403.	6.1	29
34	Antimonene: A Promising Candidate for SF ₆ Decomposition Gas Sensors With High Sensitivity and High Stability. <i>IEEE Electron Device Letters</i> , 2020, 41, 1408-1411.	3.9	20
35	Interfacial current distribution between helium plasma jet and water solution. <i>Plasma Sources Science and Technology</i> , 2020, 29, 065007.	3.1	4
36	Janus MoSSe monolayer: A highly strain-sensitive gas sensing material to detect SF ₆ decompositions. <i>Sensors and Actuators A: Physical</i> , 2020, 311, 112049.	4.1	35

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37	Multivariate Evaluation Method for Screening Optimum Gas-Sensitive Materials for Detecting SF ₆ Decomposition Products. ACS Sensors, 2020, 5, 2025-2035.	7.8	8
38	Tellurene Nanoflake-Based Gas Sensors for the Detection of Decomposition Products of SF ₆ . ACS Applied Nano Materials, 2020, 3, 7587-7594.	5.0	13
39	Hydrophobic Ionic Liquid Gel-Based Triboelectric Nanogenerator: Next Generation of Ultrastable, Flexible, and Transparent Power Sources for Sustainable Electronics. ACS Applied Materials & Interfaces, 2020, 12, 15012-15022.	8.0	45
40	Tunable adsorption behavior of small molecule on GeP monolayer by applied strain and electric field. Applied Surface Science, 2020, 520, 146257.	6.1	15
41	SF ₆ Decomposition Gas Sensor Based on GeP Monolayer: A First-Principle Study. IEEE Sensors Journal, 2020, 20, 8997-9003.	4.7	17
42	Mode transition of air surface micro-discharge and its effect on the water activation and antibacterial activity. Plasma Sources Science and Technology, 2020, 29, 095013.	3.1	42
43	Chromatic processing for feature extraction of PD-induced UHF signals in GIS. Global Energy Interconnection, 2020, 3, 494-503.	2.3	5
44	Over Thermal Decomposition Characteristics of C ₅ F ₁₀ O: An Environmental Friendly Insulation Medium. IEEE Access, 2019, 7, 62080-62086.	4.2	21
45	Effects of Buffer Gases on Plasma Properties and Arc Decaying Characteristics of C ₄ F ₇ N and C ₄ F ₇ CO ₂ Arc Plasmas. Plasma Chemistry and Plasma Processing, 2019, 39, 1379-1396.	2.4	28
46	Partial Discharge Source Localization in GIS Based on Image Edge Detection and Support Vector Machine. IEEE Transactions on Power Delivery, 2019, 34, 1795-1802.	4.3	38
47	Discharge characteristics and bactericidal mechanism of Ar plasma jet with ethanol and oxygen gas admixtures. Plasma Sources Science and Technology, 2019, 28, 125005.	3.1	12
48	DFT+U study of sulfur hexafluoride decomposition components adsorbed on ceria (110) surface. Sensors and Actuators A: Physical, 2019, 298, 111590.	4.1	9
49	Contrasting Characteristics of Gas-Liquid Reactive Species Induced by Pulse-Modulated RF and kHz Sinusoidal Plasma Jets. IEEE Transactions on Plasma Science, 2019, 47, 1336-1344.	1.3	6
50	Effect of cold atmospheric plasma treatment on the metabolites of human leukemia cells. Cancer Cell International, 2019, 19, 135.	4.1	27
51	Chemisorption of NO ₂ to MoS ₂ Nanostructures and its Effects for MoS ₂ Sensors. ChemNanoMat, 2019, 5, 1123-1130.	2.8	41
52	Reactive species in cold atmospheric-pressure He-Air plasmas: The influence of humidity. Physics of Plasmas, 2019, 26, .	1.9	11
53	Influence of H ₂ O and O ₂ on the main discharge mechanism in 50%Hz ac point-plane corona discharge. Physics of Plasmas, 2019, 26, .	1.9	14
54	Theoretical study of the decomposition mechanism of C ₄ F ₇ N. Journal Physics D: Applied Physics, 2019, 52, 245203.	2.8	27

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55	The varying characteristics of C ₅ F ₁₀ O decomposition components at 300 K - 3500 K with a chemical kinetic model. AIP Advances, 2019, 9, .	1.3	12
56	Tellurene based chemical sensor. Journal of Materials Chemistry A, 2019, 7, 26326-26333.	10.3	95
57	The decomposition mechanism of C ₄ F ₇ N-Cu gas mixtures. AIP Advances, 2019, 9, .	1.3	5
58	Electron-impact ionization cross sections of new SF ₆ replacements: A method of combining Binary-Encounter-Bethe (BEB) and Deutsch-Märk (DM) formalism. Journal of Applied Physics, 2019, 126, 193302.	2.5	14
59	Global model of cold atmospheric He + air plasmas: A comparison of Maxwellian and non-Maxwellian EEDFs. Physics of Plasmas, 2019, 26, .	1.9	4
60	Global model of an atmospheric-pressure capacitive discharge in helium with air impurities from 100 to 10 000 ppm. Plasma Sources Science and Technology, 2019, 28, 035006.	3.1	26
61	Rate constants of C ₅ F ₁₀ O decomposition reactions at temperatures of 300–3500 K. Journal Physics D: Applied Physics, 2019, 52, 035202.	2.8	27
62	Properties of C ₄ F ₇ N–CO ₂ thermal plasmas: thermodynamic properties, transport coefficients and emission coefficients. Journal Physics D: Applied Physics, 2018, 51, 155206.	2.8	59
63	Highly selective detection of sulfur hexafluoride decomposition components H ₂ S and SOF ₂ employing sensors based on tin oxide modified reduced graphene oxide. Carbon, 2018, 135, 95-103.	10.3	88
64	Recent advances in phosphorene as a sensing material. Nano Today, 2018, 20, 13-32.	11.9	134
65	A first principles theoretical study of the adsorption of SF ₆ decomposition gases on a cassiterite (110) surface. Materials Chemistry and Physics, 2018, 212, 453-460.	4.0	27
66	The effect of ethanol gas impurity on the discharge mode and discharge products of argon plasma jet at atmospheric pressure. Plasma Sources Science and Technology, 2018, 27, 055001.	3.1	9
67	Comparison between the water activation effects by pulsed and sinusoidal helium plasma jets. Physics of Plasmas, 2018, 25, .	1.9	22
68	Sub-microanalysis of solid samples with near-field enhanced atomic emission spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 141, 1-6.	2.9	8
69	MoTe ₂ : A Promising Candidate for SF ₆ Decomposition Gas Sensors With High Sensitivity and Selectivity. IEEE Electron Device Letters, 2018, 39, 292-295.	3.9	74
70	Cold atmospheric-pressure plasma induces DNA–protein crosslinks through protein oxidation. Free Radical Research, 2018, 52, 783-798.	3.3	40
71	Time–frequency analysis of PD-induced UHF signal in GIS and feature extraction using invariant moments. IET Science, Measurement and Technology, 2018, 12, 169-175.	1.6	28
72	Fluorinated Nitrile as a Potential Substitute of SF ₆ for ARC Interruption in Switchgears. , 2018, .		1

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73	Influence of H ₂ O on the decomposition products and discharge mechanism of a point-plane corona discharge. , 2018, , .		0
74	Research on Inconsistent Acquisition of Dual AD in Protection Current of Electronic Instrument Transformer. , 2018, , .		0
75	Influence of Al, Fe or Cu vapour on thermophysical properties of CO ₂ plasmas. European Physical Journal D, 2018, 72, 1.	1.3	3
76	Partial Discharge Recognition with a Multi-Resolution Convolutional Neural Network. Sensors, 2018, 18, 3512.	3.8	63
77	Compositions of SF ₆ - H ₂ O Decaying Arc at a Temperature Range of 1000â€“12000 K. , 2018, , .		0
78	Calculated rate constants of main C ₅ PFK (C ₅ F ₁₀ O) decomposition reactions: An environmental-friendly alternative gas in electrical equipment. , 2018, , .		0
79	Investigation of laser-induced plasma at varying pressure and laser focusing. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 150, 33-37.	2.9	18
80	Effects of oxygen concentration on helium-oxygen dielectric barrier discharges: From multi-breakdowns to single-breakdown per half-cycle. Physics of Plasmas, 2018, 25, 103511.	1.9	4
81	Molecular orbital composition and its effect on electron-impact ionization cross sections of molecules: A comparative study. Physics of Plasmas, 2018, 25, .	1.9	10
82	Numerical simulation of negative point-plane corona discharge mechanism in SF ₆ gas. Plasma Sources Science and Technology, 2018, 27, 115001.	3.1	22
83	Combined Diffusion Coefficients in CO ₂ Thermal Plasmas Contaminated with Cu, Fe or Al. Plasma Chemistry and Plasma Processing, 2018, 38, 1133-1149.	2.4	0
84	Laser-induced plasma imaging for low-pressure detection. Optics Express, 2018, 26, 15962.	3.4	14
85	Gas Plasma Pre-treatment Increases Antibiotic Sensitivity and Persister Eradication in Methicillin-Resistant Staphylococcus aureus. Frontiers in Microbiology, 2018, 9, 537.	3.5	41
86	Numerical study on helium-oxygen dielectric barrier discharges: From single-breakdown to multi-breakdowns per half-cycle. Physics of Plasmas, 2018, 25, 073508.	1.9	6
87	Plasma Jets With Needleâ€“Ring Electrodes: The Insulated Sealing of the Needle and its Effect on the Plasma Characteristics. IEEE Transactions on Plasma Science, 2018, 46, 2942-2948.	1.3	5
88	Alteration of metabolite profiling by cold atmospheric plasma treatment in human myeloma cells. Cancer Cell International, 2018, 18, 42.	4.1	16
89	Calculation of electron-impact ionization cross sections of perfluoroketone (PFK) molecules C _x F _{2x} O (x = 1â€“5) based on Binary-Encounter-Bethe (BEB) and Deutsch-MÃrk (DM) methods. Plasma Sources Science and Technology, 2018, 27, 095005.	3.1	23
90	Theoretical study of the decomposition mechanism of SF ₆ /Cu gas mixtures. Journal Physics D: Applied Physics, 2018, 51, 425202.	2.8	8

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91	Comparison of dielectric breakdown properties for different carbon-fluoride insulating gases as SF ₆ alternatives. AIP Advances, 2018, 8, .	1.3	15
92	Chemical kinetic modeling and experimental study of SF ₆ decomposition byproducts in 50 Hz ac point-plane corona discharges. Journal Physics D: Applied Physics, 2018, 51, 295202.	2.8	12
93	Cold atmospheric plasma as a potential tool for multiple myeloma treatment. Oncotarget, 2018, 9, 18002-18017.	1.8	28
94	A high-integration sensor array sensitive to oxynitride mixture. Sensors and Actuators B: Chemical, 2017, 245, 183-188.	7.8	14
95	Main species and chemical pathways in cold atmospheric-pressure Ar + H ₂ O plasmas. Plasma Sources Science and Technology, 2017, 26, 045009.	3.1	39
96	Phosphorene: A Promising Candidate for Highly Sensitive and Selective SF ₆ Decomposition Gas Sensors. IEEE Electron Device Letters, 2017, 38, 963-966.	3.9	132
97	A novel large-scale plasma source: two discharge modes and their correlation to the production of aqueous reactive species. Journal Physics D: Applied Physics, 2017, 50, 305202.	2.8	8
98	Contrasting characteristics of aqueous reactive species induced by cross-field and linear-field plasma jets. Journal Physics D: Applied Physics, 2017, 50, 245201.	2.8	32
99	The mechanism of plasma plume termination for pulse-excited plasmas in a quartz tube. Applied Physics Letters, 2017, 111, .	3.3	10
100	Compositions, thermodynamic properties, and transport coefficients of high-temperature C ₅ F ₁₀ O mixed with CO ₂ and O ₂ as substitutes for SF ₆ to reduce global warming potential. AIP Advances, 2017, 7, .	1.3	61
101	Experiment of dielectric strength of C ₅ F ₁₀ O gas mixture and calculation of stratification. , 2017, , .		1
102	Insulation performance and liquefaction characteristic of C ₅ F ₁₀ O/CO ₂ gas mixture. , 2017, , .		4
103	Health status centered mechanical feature extraction for high voltage circuit breakers. , 2017, , .		1
104	Defect distribution prognosis of high voltage circuit breakers with enhanced latent Dirichlet allocation. , 2017, , .		0
105	Chemical kinetic model of SF ₆ /O ₂ /H ₂ O decomposition products under 50 Hz ac corona discharges. , 2017, , .		0
106	Experimental Investigation on Propagation Characteristics of PD Radiated UHF Signal in Actual 252 kV GIS. Energies, 2017, 10, 942.	3.1	10
107	UHF Signal Processing and Pattern Recognition of Partial Discharge in Gas-Insulated Switchgear Using Chromatic Methodology. Sensors, 2017, 17, 177.	3.8	24
108	Spectroscopic On-Line Monitoring of Cu/W Contacts Erosion in HVCBs Using Optical-Fibre Based Sensor and Chromatic Methodology. Sensors, 2017, 17, 519.	3.8	6

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109	Failure Prognosis of High Voltage Circuit Breakers with Temporal Latent Dirichlet Allocation. Energies, 2017, 10, 1913.	3.1	4
110	Calculation on the composition varying characteristics of decaying SF ₆ arc in the presence of trace oxygen and moisture. , 2017, , .		1
111	Study on the laser-induced plasma properties of vacuum interrupter shield under different pressure. , 2017, , .		0
112	Effects of N ₂ contents on the non-equilibrium composition in SF ₆ decaying process. , 2017, , .		1
113	Optimization design on step-shape cushioning for hydraulic operating mechanism of high voltage circuit breakers. , 2016, , .		0
114	Fault simulation and diagnosis of high speed hydraulic operating mechanism of high voltage circuit breakers. , 2016, , .		1
115	Relationship between time-frequency representation of PD-induced UHF signal and PD current pulse. , 2016, , .		0
116	Analysis of partial discharge in leading-out terminal on distribution switchgear. , 2016, , .		0
117	Theoretical study of the decomposition pathways and products of C5- perfluorinated ketone (C5 PFK). AIP Advances, 2016, 6, .	1.3	50
118	Influence of metallic vapours on thermodynamic and transport properties of two-temperature air plasma. Physics of Plasmas, 2016, 23, .	1.9	8
119	Research on insulation aging of distribution switchgear. , 2016, , .		1
120	Investigation on the formation reactions of SOF ₄ and SO ₂ F ₂ under electric discharges. , 2016, , .		1
121	The optimal circumferential angle position of UHF sensor for partial discharge detection in GIS. , 2016, , .		5
122	Research on modeling and fault analysis of permanent magnet operating mechanism of vacuum circuit breaker. , 2016, , .		1
123	Partial discharge patterns recognition with deep Convolutional Neural Networks. , 2016, , .		11
124	Effects of DC bias voltages on the RF-excited plasma-tissue interaction. Journal Physics D: Applied Physics, 2016, 49, 415201.	2.8	3
125	A pilot study on the vacuum degree online detection of vacuum interrupter using laser-induced breakdown spectroscopy. Journal Physics D: Applied Physics, 2016, 49, 44LT01.	2.8	11
126	Influence of the gas flow rate on the nonchemical equilibrium N ₂ arc behavior in a model nozzle circuit breaker. Journal Physics D: Applied Physics, 2016, 49, 425202.	2.8	6

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127	Propagation characteristics of PD-induced UHF signal in 126kV GIS with three-phase construction based on time-frequency analysis. IET Science, Measurement and Technology, 2016, 10, 805-812.	1.6	17
128	Electron heating and particle fluxes in dual frequency atmospheric-pressure helium capacitive discharge. Journal Physics D: Applied Physics, 2016, 49, 49LT01.	2.8	10
129	Theoretical study of the neutral decomposition of SF ₆ in the presence of H ₂ O and O ₂ in discharges in power equipment. Journal Physics D: Applied Physics, 2016, 49, 385203.	2.8	65
130	Calculation of 2-temperature plasma thermo-physical properties considering condensed phases: application to CO ₂ -CH ₄ plasma: part 2. Transport coefficients. Journal Physics D: Applied Physics, 2016, 49, 405204.	2.8	5
131	A New Surface Discharge Source: Plasma Characteristics and Delivery of Reactive Species. IEEE Transactions on Plasma Science, 2016, 44, 3295-3301.	1.3	10
132	Effects of copper vapour on thermophysical properties of CO ₂ -N ₂ plasma. European Physical Journal D, 2016, 70, 1.	1.3	10
133	Comparison of different time-frequency analysis methods for sparse representation of PD-induced UHF signal. , 2016, , .		1
134	Comparison between electropositive and electronegative cold atmospheric-pressure plasmas: a modelling study. High Voltage, 2016, 1, 81-85.	4.7	25
135	Preliminary study on vacuum degree online detection of vacuum circuit breaker based on laser induced breakdown spectroscopy(LIBS). , 2016, , .		3
136	Simulation on failure analysis of vacuum circuit breaker permanent magnet operating mechanism based on three-parameter method. , 2016, , .		0
137	Determination of the Dominant Species and Reactions in Non-equilibrium CO ₂ Thermal Plasmas with a Two-Temperature Chemical Kinetic Model. Plasma Chemistry and Plasma Processing, 2016, 36, 1301-1323.	2.4	8
138	Thermodynamic Properties and Transport Coefficients of CO ₂ -Cu Thermal Plasmas. Plasma Chemistry and Plasma Processing, 2016, 36, 1141-1160.	2.4	12
139	Dominant particles and reactions in a two-temperature chemical kinetic model of a decaying SF ₆ arc. Journal Physics D: Applied Physics, 2016, 49, 105502.	2.8	30
140	Calculated rate constants of the chemical reactions involving the main byproducts SO ₂ F, SO ₂ , SO ₂ F ₂ of SF ₆ decomposition in power equipment. Journal Physics D: Applied Physics, 2016, 49, 155502.	2.8	82
141	Experimental investigation on UHF partial discharge sensor in GIS. , 2015, , .		2
142	Properties of a weakly ionized NO gas sensor based on multi-walled carbon nanotubes. Applied Physics Letters, 2015, 107, .	3.3	18
143	Propagation characteristics of atmospheric-pressure He+O ₂ plasmas inside a simulated endoscope channel. Journal of Applied Physics, 2015, 118, .	2.5	4
144	Three distinct modes in a surface micro-discharge in atmospheric pressure He+N ₂ mixtures. Physics of Plasmas, 2015, 22, .	1.9	15

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145	Investigation of dielectric properties of cold C3F8 mixtures and hot C3F8 gas as Substitutes for SF6. European Physical Journal D, 2015, 69, 1.	1.3	17
146	Thermodynamic properties and transport coefficients of high-temperature CO ₂ thermal plasmas mixed with C ₂ F ₄ . Journal Physics D: Applied Physics, 2015, 48, 495202.	2.8	19
147	Mechanical life prognosis of high voltage circuit breakers based on support vector machine. , 2015, , .		3
148	Influence of copper contamination on equilibrium compositions, thermodynamic properties, transport coefficients, and combined diffusion coefficients of high-temperature SF6 gas. , 2015, , .		1
149	The influence of T-shaped structure on partial discharge radiated electromagnetic wave propagation in GIS. , 2015, , .		3
150	Influence of copper contamination on dielectric breakdown properties of high-temperature SF6 gas based on Boltzmann equation analysis. , 2015, , .		1
151	Study on the change tendency of electro-magnetic signal under different vacuum degree for 10kV vacuum chamber. , 2015, , .		0
152	Study on aging of material for GIS sealing ring. , 2015, , .		3
153	Atomic spectrometry in China: past and present. Journal of Analytical Atomic Spectrometry, 2015, 30, 852-866.	3.0	18
154	Dielectric breakdown properties of hot SF ₆ gas contaminated by copper at temperatures of 300~3500K. Journal Physics D: Applied Physics, 2015, 48, 155205.	2.8	22
155	Calculation of combined diffusion coefficients in SF6-Cu mixtures. Physics of Plasmas, 2014, 21, 103506.	1.9	17
156	Influence of O2 on the dielectric properties of CO2 at the elevated temperatures. Physics of Plasmas, 2014, 21, .	1.9	19
157	Dielectric breakdown properties of hot SF6-CO2 mixtures at temperatures of 300~3500K and pressures of 0.01~1.0MPa. Physics of Plasmas, 2014, 21, .	1.9	51
158	Temporal modulation of plasma species in atmospheric dielectric barrier discharges. Physics of Plasmas, 2014, 21, 073507.	1.9	9
159	Thermophysical properties of SF ₆ -Cu mixtures at temperatures of 300~30,000K and pressures of 0.01~1.0MPa: part 2. Collision integrals and transport coefficients. Journal Physics D: Applied Physics, 2014, 47, 495201.	2.8	22
160	Thermophysical properties of SF ₆ -Cu mixtures at temperatures of 300~30000K and pressures of 0.01~1.0MPa: part 1. Equilibrium compositions and thermodynamic properties considering condensed phases. Journal Physics D: Applied Physics, 2014, 47, 495202.	2.8	36
161	Laser-induced plasma temperature. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 97, 13-33.	2.9	133
162	The Influence of L-Shaped Structure on Partial Discharge Radiated Electromagnetic Wave Propagation in GIS. IEEE Transactions on Plasma Science, 2014, 42, 2536-2537.	1.3	11

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163	Optimization Design of Atmospheric Pressure Plasma Generator for Sterilization of Endoscope. IEEE Transactions on Plasma Science, 2014, 42, 2754-2755.	1.3	4
164	Comprehensive analysis of metalloporphyrins via high irradiance laser ionization time-of-flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2014, 29, 1714-1719.	3.0	9
165	Ion kinetic energy distributions in laser-induced plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 99, 101-114.	2.9	58
166	A dominant role of oxygen additive on cold atmospheric-pressure He + O ₂ plasmas. Physics of Plasmas, 2014, 21, .	1.9	26
167	Dual Plasma Bullets Colliding Inside a Hollow Electrode of a Multielectrode Helium Plasma Jet. IEEE Transactions on Plasma Science, 2014, 42, 2422-2423.	1.3	2
168	Investigation on the placement effect of UHF sensor and propagation characteristics of PD-induced electromagnetic wave in GIS based on FDTD method. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1015-1025.	2.9	53
169	Thermal Diffusion Desorption for the Comprehensive Analysis of Organic Compounds. Analytical Chemistry, 2014, 86, 6372-6378.	6.5	5
170	Investigation on Propagation Characteristics of PD-induced Electromagnetic Wave in T-Shaped GIS Based on FDTD Method. IEICE Transactions on Electronics, 2014, E97.C, 880-887.	0.6	11
171	Variable radio-frequency cold atmospheric He + O ₂ discharges: from electron-heating mechanism to reactive species delivery. Journal Physics D: Applied Physics, 2013, 46, 415201.	2.8	15
172	Experimental research on partial discharge radiated UHF signal attenuation characteristics in GIS. , 2013, , .		5
173	Role of three-body recombination for charge reduction in MALDI process. Analyst, The, 2013, 138, 2964.	3.5	4
174	A theoretical insight into low-temperature atmospheric-pressure He+H ₂ plasmas. Plasma Sources Science and Technology, 2013, 22, 055016.	3.1	10
175	Study on propagation characteristics of partial discharge-induced UHF signal in GIS with L shaped structure. , 2013, , .		3
176	A comparative study of N ₂ and SF ₆ arcing process for 252kV puffer circuit breaker based on a novel simulation model. , 2013, , .		0
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