

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	Main Species and Physicochemical Processes in Cold Atmospheric-Pressure He+O ₂ Plasmas. Plasma Processes and Polymers, 2010, 7, 846-865.	3.0	163
2	Recent advances in phosphorene as a sensing material. Nano Today, 2018, 20, 13-32.	11.9	134
3	Laser-induced plasma temperature. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 97, 13-33.	2.9	133
4	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
5	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
6	Identification of gas mixtures via sensor array combining with neural networks. Sensors and Actuators B: Chemical, 2021, 329, 129090.	7.8	106
7	Tellurene based chemical sensor. Journal of Materials Chemistry A, 2019, 7, 26326-26333.	10.3	95
8	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
9	Development simulation and experiment study on UHF Partial Discharge Sensor in GIS. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1421-1430.	2.9	87
10	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
11	Numerical analysis of arc plasma behaviour during contact opening process in low-voltage switching device. Journal Physics D: Applied Physics, 2007, 40, 795-802.	2.8	79
12	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
13	He + O ₂ + H ₂ O plasmas as a source of reactive oxygen species. Applied Physics Letters, 2011, 98, .	3.3	70
14	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
15	1-D fluid model of atmospheric-pressure rf He+O ₂ cold plasmas: Parametric study and critical evaluation. Physics of Plasmas, 2011, 18, .	1.9	64
16	Partial Discharge Recognition with a Multi-Resolution Convolutional Neural Network. Sensors, 2018, 18, 3512.	3.8	63
17	Compositions, thermodynamic properties, and transport coefficients of high-temperature C ₅ F ₁₀ mixed with CO ₂ and O ₂ as substitutes for SF ₆ to reduce global warming potential. AIP Advances, 2017, 7, .	1.3	61
18	Properties of C ₄ F ₇ Nâ€‘CO ₂ thermal plasmas: thermodynamic properties, transport coefficients and emission coefficients. Journal Physics D: Applied Physics, 2018, 51, 155206.	2.8	59

#	ARTICLE	IF	CITATIONS
19	Ion kinetic energy distributions in laser-induced plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 101-114.	2.9	58
20	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
21	Investigation on the placement effect of UHF sensor and propagation characteristics of PD-induced electromagnetic wave in GIS based on FDTD method. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 1015-1025.	2.9	53
22	A High-Impedance Fault Detection Method for Distribution Systems Based on Empirical Wavelet Transform and Differential Faulty Energy. <i>IEEE Transactions on Smart Grid</i> , 2022, 13, 900-912.	9.0	53
23	Dielectric breakdown properties of hot SF ₆ -CO ₂ mixtures at temperatures of 300–3500 K and pressures of 0.01–1.0 MPa. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	51
24	Theoretical study of the decomposition pathways and products of C ₅ -perfluorinated ketone (C ₅ PFK). <i>AIP Advances</i> , 2016, 6, .	1.3	50
25	Hydrophobic Ionic Liquid Gel-Based Triboelectric Nanogenerator: Next Generation of Ultrastable, Flexible, and Transparent Power Sources for Sustainable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15012-15022.	8.0	45
26	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
27	Mode transition of air surface micro-discharge and its effect on the water activation and antibacterial activity. <i>Plasma Sources Science and Technology</i> , 2020, 29, 095013.	3.1	42
28	Gas Plasma Pre-treatment Increases Antibiotic Sensitivity and Persister Eradication in Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 537.	3.5	41
29	Chemisorption of NO ₂ to MoS ₂ Nanostructures and its Effects for MoS ₂ Sensors. <i>ChemNanoMat</i> , 2019, 5, 1123-1130.	2.8	41
30	Cold atmospheric-pressure plasma induces DNA-protein crosslinks through protein oxidation. <i>Free Radical Research</i> , 2018, 52, 783-798.	3.3	40
31	Main species and chemical pathways in cold atmospheric-pressure Ar + H ₂ O plasmas. <i>Plasma Sources Science and Technology</i> , 2017, 26, 045009.	3.1	39
32	Partial Discharge Source Localization in GIS Based on Image Edge Detection and Support Vector Machine. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 1795-1802.	4.3	38
33	Thermophysical properties of SF ₆ -Cu mixtures at temperatures of 300–3000 K and pressures of 0.01–1.0 MPa: part 1. Equilibrium compositions and thermodynamic properties considering condensed phases. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 495202.	2.8	36
34	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
35	Numerical Analysis of the Effect of the Chamber Width and Outlet Area on the Motion of an Air Arc Plasma. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 2831-2837.	1.3	34
36	Contrasting characteristics of aqueous reactive species induced by cross-field and linear-field plasma jets. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 245201.	2.8	32

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37	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
38	Short period sinusoidal thermal modulation for quantitative identification of gas species. Nanoscale, 2020, 12, 220-229.	5.6	30
39	Tunable SO ₂ -sensing performance of arsenene induced by Stone-Wales defects and external electric field. Applied Surface Science, 2020, 523, 146403.	6.1	29
40	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
41	Effects of Buffer Gases on Plasma Properties and Arc Decaying Characteristics of C ₄ F ₇ N-N ₂ and C ₄ F ₇ N-CO ₂ Arc Plasmas. Plasma Chemistry and Plasma Processing, 2019, 39, 1379-1396.	2.4	28
42	Cold atmospheric plasma as a potential tool for multiple myeloma treatment. Oncotarget, 2018, 9, 18002-18017.	1.8	28
43	Wall fluxes of reactive oxygen species of an rf atmospheric-pressure plasma and their dependence on sheath dynamics. Journal Physics D: Applied Physics, 2012, 45, 305205.	2.8	27
44	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
45	Effect of cold atmospheric plasma treatment on the metabolites of human leukemia cells. Cancer Cell International, 2019, 19, 135.	4.1	27
46	Theoretical study of the decomposition mechanism of C ₄ F ₇ N. Journal Physics D: Applied Physics, 2019, 52, 245203.	2.8	27
47	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
48	A dominant role of oxygen additive on cold atmospheric-pressure He + O ₂ plasmas. Physics of Plasmas, 2014, 21, .	1.9	26
49	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
50	Comparison between electropositive and electronegative cold atmospheric-pressure plasmas: a modelling study. High Voltage, 2016, 1, 81-85.	4.7	25
51	UHF Signal Processing and Pattern Recognition of Partial Discharge in Gas-Insulated Switchgear Using Chromatic Methodology. Sensors, 2017, 17, 177.	3.8	24
52	Calculation of electron-impact ionization cross sections of perfluoroketone (PFK) molecules C _x F _{2x} O (x = 1-5) based on Binary-Encounter-Bethe (BEB) and Deutsch-Märk (DM) methods. Plasma Sources Science and Technology, 2018, 27, 095005.	3.1	23
53	Fault Diagnosis of SF ₆ -Insulated Equipment by Micro Gas Sensor Array. IEEE Transactions on Power Delivery, 2023, 38, 222-230.	4.3	23
54	Thermophysical properties of SF ₆ -Cu mixtures at temperatures of 300-30,000 K and pressures of 0.01-1.0 MPa: part 2. Collision integrals and transport coefficients. Journal Physics D: Applied Physics, 2014, 47, 495201.	2.8	22

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55	Dielectric breakdown properties of hot SF ₆ gas contaminated by copper at temperatures of 300–3500 K. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 155205.	2.8	22
56	Comparison between the water activation effects by pulsed and sinusoidal helium plasma jets. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	22
57	Numerical simulation of negative point-plane corona discharge mechanism in SF ₆ gas. <i>Plasma Sources Science and Technology</i> , 2018, 27, 115001.	3.1	22
58	Over Thermal Decomposition Characteristics of C ₅ F ₁₀ O: An Environmental Friendly Insulation Medium. <i>IEEE Access</i> , 2019, 7, 62080-62086.	4.2	21
59	A Deep Learning Method to Detect Foreign Objects for Inspecting Power Transmission Lines. <i>IEEE Access</i> , 2020, 8, 94065-94075.	4.2	21
60	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
61	Influence of O ₂ on the dielectric properties of CO ₂ at the elevated temperatures. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	19
62	Thermodynamic properties and transport coefficients of high-temperature CO ₂ thermal plasmas mixed with C ₂ F ₄ . <i>Journal Physics D: Applied Physics</i> , 2015, 48, 495202.	2.8	19
63	Properties of a weakly ionized NO gas sensor based on multi-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	18
64	Atomic spectrometry in China: past and present. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 852-866.	3.0	18
65	Investigation of laser-induced plasma at varying pressure and laser focusing. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 150, 33-37.	2.9	18
66	Dynamics of laser-induced plasma splitting. <i>Optics and Lasers in Engineering</i> , 2020, 124, 105832.	3.8	18
67	A New Structure Optimization Method for the Interneedle Distance of a Multineedle-to-Plane Barrier Discharge Reactor. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 966-972.	1.3	17
68	Calculation of combined diffusion coefficients in SF ₆ -Cu mixtures. <i>Physics of Plasmas</i> , 2014, 21, 103506.	1.9	17
69	Investigation of dielectric properties of cold C ₃ F ₈ mixtures and hot C ₃ F ₈ gas as Substitutes for SF ₆ . <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	17
70	Propagation characteristics of PD-induced UHF signal in 126 kV GIS with three-phase construction based on time-frequency analysis. <i>IET Science, Measurement and Technology</i> , 2016, 10, 805-812.	1.6	17
71	SF ₆ Decomposition Gas Sensor Based on GeP Monolayer: A First-Principle Study. <i>IEEE Sensors Journal</i> , 2020, 20, 8997-9003.	4.7	17
72	Alteration of metabolite profiling by cold atmospheric plasma treatment in human myeloma cells. <i>Cancer Cell International</i> , 2018, 18, 42.	4.1	16

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73	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
74	Variable radio-frequency cold atmospheric He + O ₂ discharges: from electron-heating mechanism to reactive species delivery. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 415201.	2.8	15
75	Three distinct modes in a surface micro-discharge in atmospheric pressure He+N ₂ mixtures. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	15
76	Comparison of dielectric breakdown properties for different carbon-fluoride insulating gases as SF ₆ alternatives. <i>AIP Advances</i> , 2018, 8, .	1.3	15
77	Tunable adsorption behavior of small molecule on GeP monolayer by applied strain and electric field. <i>Applied Surface Science</i> , 2020, 520, 146257.	6.1	15
78	A high-integration sensor array sensitive to oxynitride mixture. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 183-188.	7.8	14
79	Laser-induced plasma imaging for low-pressure detection. <i>Optics Express</i> , 2018, 26, 15962.	3.4	14
80	Influence of H ₂ O and O ₂ on the main discharge mechanism in 50 Hz ac point-plane corona discharge. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	14
81	Electron-impact ionization cross sections of new SF ₆ replacements: A method of combining Binary-Encounter-Bethe (BEB) and Deutsch-Märk (DM) formalism. <i>Journal of Applied Physics</i> , 2019, 126, 193302.	2.5	14
82	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
83	Tellurene Nanoflake-Based Gas Sensors for the Detection of Decomposition Products of SF ₆ . <i>ACS Applied Nano Materials</i> , 2020, 3, 7587-7594.	5.0	13
84	Thermodynamic Properties and Transport Coefficients of CO ₂ -Cu Thermal Plasmas. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 1141-1160.	2.4	12
85	Chemical kinetic modeling and experimental study of SF ₆ decomposition byproducts in 50 Hz ac point-plane corona discharges. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 295202.	2.8	12
86	Discharge characteristics and bactericidal mechanism of Ar plasma jet with ethanol and oxygen gas admixtures. <i>Plasma Sources Science and Technology</i> , 2019, 28, 125005.	3.1	12
87	The varying characteristics of C ₅ F ₁₀ O decomposition components at 300 K - 3500 K with a chemical kinetic model. <i>AIP Advances</i> , 2019, 9, .	1.3	12
88	Cold Atmospheric-Pressure Plasma Caused Protein Damage in Methicillin-Resistant <i>Staphylococcus aureus</i> Cells in Biofilms. <i>Microorganisms</i> , 2021, 9, 1072.	3.6	12
89	Hybrid piezo/triboelectric nanogenerator for stray magnetic energy harvesting and self-powered sensing applications. <i>High Voltage</i> , 2021, 6, 978-985.	4.7	12
90	The Influence of L-Shaped Structure on Partial Discharge Radiated Electromagnetic Wave Propagation in GIS. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2536-2537.	1.3	11

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91	Partial discharge patterns recognition with deep Convolutional Neural Networks. , 2016, , .		11
92	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
93	Reactive species in cold atmospheric-pressure He+Air plasmas: The influence of humidity. Physics of Plasmas, 2019, 26, .	1.9	11
94	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
95	Low-Frequency Wireless Power Transfer Via Rotating Permanent Magnets. IEEE Transactions on Industrial Electronics, 2022, 69, 10656-10665.	7.9	11
96	Numerical Modeling of Arc Root Transfer During Contact Opening in a Low-Voltage Air Circuit Breaker. IEEE Transactions on Plasma Science, 2008, 36, 1074-1075.	1.3	10
97	Numerical Study on Atmospheric Pressure DBD in Helium: Single-breakdown and Multi-breakdown Discharges. Plasma Science and Technology, 2011, 13, 724-729.	1.5	10
98	A New Method for Mechanical Fault Recognition of Extra-high Voltage Circuit Breaker. Physics Procedia, 2012, 24, 397-403.	1.2	10
99	A theoretical insight into low-temperature atmospheric-pressure He+H ₂ plasmas. Plasma Sources Science and Technology, 2013, 22, 055016.	3.1	10
100	Electron heating and particle fluxes in dual frequency atmospheric-pressure helium capacitive discharge. Journal Physics D: Applied Physics, 2016, 49, 49LT01.	2.8	10
101	A New Surface Discharge Source: Plasma Characteristics and Delivery of Reactive Species. IEEE Transactions on Plasma Science, 2016, 44, 3295-3301.	1.3	10
102	Effects of copper vapour on thermophysical properties of CO ₂ -N ₂ plasma. European Physical Journal D, 2016, 70, 1.	1.3	10
103	The mechanism of plasma plume termination for pulse-excited plasmas in a quartz tube. Applied Physics Letters, 2017, 111, .	3.3	10
104	Experimental Investigation on Propagation Characteristics of PD Radiated UHF Signal in Actual 252 kV GIS. Energies, 2017, 10, 942.	3.1	10
105	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
106	Temporal modulation of plasma species in atmospheric dielectric barrier discharges. Physics of Plasmas, 2014, 21, 073507.	1.9	9
107	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
108	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

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109	DFT+U study of sulfur hexafluoride decomposition components adsorbed on ceria (110) surface. <i>Sensors and Actuators A: Physical</i> , 2019, 298, 111590.	4.1	9
110	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
111	Numerical Modeling of Arc Splitting Process With Ferromagnetic Plate. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1072-1073.	1.3	8
112	Influence of metallic vapours on thermodynamic and transport properties of two-temperature air plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	8
113	Determination of the Dominant Species and Reactions in Non-equilibrium CO ₂ Thermal Plasmas with a Two-Temperature Chemical Kinetic Model. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 1301-1323.	2.4	8
114	A novel large-scale plasma source: two discharge modes and their correlation to the production of aqueous reactive species. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 305202.	2.8	8
115	Sub-microanalysis of solid samples with near-field enhanced atomic emission spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 141, 1-6.	2.9	8
116	Theoretical study of the decomposition mechanism of SF ₆ /Cu gas mixtures. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 425202.	2.8	8
117	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
118	Multivariate Evaluation Method for Screening Optimum Gas-Sensitive Materials for Detecting SF ₆ Decomposition Products. <i>ACS Sensors</i> , 2020, 5, 2025-2035.	7.8	8
119	Calculation of two-temperature plasma composition: II. Consideration of condensed phases. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 065203.	2.8	7
120	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
121	Upcycle hazard against other hazard: Toxic fluorides from plasma fluoropolymer etching turn novel microbial disinfectants. <i>Journal of Hazardous Materials</i> , 2022, 424, 127658.	12.4	7
122	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
123	Influence of the gas flow rate on the nonchemical equilibrium N ₂ arc behavior in a model nozzle circuit breaker. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 425202.	2.8	6
124	Spectroscopic On-Line Monitoring of Cu/W Contacts Erosion in HVCBs Using Optical-Fibre Based Sensor and Chromatic Methodology. <i>Sensors</i> , 2017, 17, 519.	3.8	6
125	Numerical study on helium-oxygen dielectric barrier discharges: From single-breakdown to multi-breakdowns per half-cycle. <i>Physics of Plasmas</i> , 2018, 25, 073508.	1.9	6
126	Contrasting Characteristics of Gasâ€“Liquid Reactive Species Induced by Pulse-Modulated RF and kHz Sinusoidal Plasma Jets. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 1336-1344.	1.3	6

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127	Multicomponent SF6 decomposition product sensing with a gas-sensing microchip. <i>Microsystems and Nanoengineering</i> , 2021, 7, 18.	7.0	6
128	Lightweight Neural Network for Gas Identification Based on Semiconductor Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	4.7	6
129	Experimental research on partial discharge radiated UHF signal attenuation characteristics in GIS. , 2013, , .		5
130	Thermal Diffusion Desorption for the Comprehensive Analysis of Organic Compounds. <i>Analytical Chemistry</i> , 2014, 86, 6372-6378.	6.5	5
131	The optimal circumferential angle position of UHF sensor for partial discharge detection in GIS. , 2016, , .		5
132	Calculation of 2-temperature plasma thermo-physical properties considering condensed phases: application to CO ₂ â€“CH ₄ plasma: part 2. Transport coefficients. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 405204.	2.8	5
133	Plasma Jets With Needleâ€“Ring Electrodes: The Insulated Sealing of the Needle and its Effect on the Plasma Characteristics. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2942-2948.	1.3	5
134	The decomposition mechanism of C4F7N-Cu gas mixtures. <i>AIP Advances</i> , 2019, 9, .	1.3	5
135	Chromatic processing for feature extraction of PD-induced UHF signals in GIS. <i>Global Energy Interconnection</i> , 2020, 3, 494-503.	2.3	5
136	A Study of Human Bladder Cancer by Serum and Urine Metabonomics. <i>Chinese Journal of Analytical Chemistry</i> , 2012, 40, 1322-1328.	1.7	4
137	Role of three-body recombination for charge reduction in MALDI process. <i>Analyst, The</i> , 2013, 138, 2964.	3.5	4
138	Optimization Design of Atmospheric Pressure Plasma Generator for Sterilization of Endoscope. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2754-2755.	1.3	4
139	Propagation characteristics of atmospheric-pressure He+O2 plasmas inside a simulated endoscope channel. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	4
140	Insulation performance and liquefaction characteristic of C₅/F₁₀/O/CO₂ gas mixture. , 2017, , .		4
141	Failure Prognosis of High Voltage Circuit Breakers with Temporal Latent Dirichlet Allocation. <i>Energies</i> , 2017, 10, 1913.	3.1	4
142	Effects of oxygen concentration on helium-oxygen dielectric barrier discharges: From multi-breakdowns to single-breakdown per half-cycle. <i>Physics of Plasmas</i> , 2018, 25, 103511.	1.9	4
143	Global model of cold atmospheric He + air plasmas: A comparison of Maxwellian and non-Maxwellian EEDFs. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	4
144	Interfacial current distribution between helium plasma jet and water solution. <i>Plasma Sources Science and Technology</i> , 2020, 29, 065007.	3.1	4

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145	Detection of decomposition products of SF ₆ /air gas mixture by electron attachment mass spectrometry. High Voltage, 2022, 7, 536-544.	4.7	4
146	An integrated device for preparation of plasma-activated media with bactericidal properties: An in vitro and in vivo study. Contributions To Plasma Physics, 0, , e202100125.	1.1	4
147	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
148	The Estimation of the Current-Density Distribution in a Moving Arc Root Using the ART Algorithm. IEEE Transactions on Plasma Science, 2009, 37, 1311-1317.	1.3	3
149	Study on propagation characteristics of partial discharge-induced UHF signal in GIS with L shaped structure. , 2013, , .		3
150	Mechanical life prognosis of high voltage circuit breakers based on support vector machine. , 2015, , .		3
151	The influence of T-shaped structure on partial discharge radiated electromagnetic wave propagation in GIS. , 2015, , .		3
152	Study on aging of material for GIS sealing ring. , 2015, , .		3
153	Effects of DC bias voltages on the RF-excited plasma-tissue interaction. Journal Physics D: Applied Physics, 2016, 49, 415201.	2.8	3
154	Preliminary study on vacuum degree online detection of vacuum circuit breaker based on laser induced breakdown spectroscopy(LIBS). , 2016, , .		3
155	Influence of Al, Fe or Cu vapour on thermophysical properties of CO ₂ plasmas. European Physical Journal D, 2018, 72, 1.	1.3	3
156	Overheat diagnosis of power cable based on gas sensors: Device/material exploration. Sensors and Actuators B: Chemical, 2022, 350, 130837.	7.8	3
157	Optimization of Space Between Nearby Needles on Multineedle to Plane Barrier Discharge. IEEE Transactions on Plasma Science, 2008, 36, 1350-1351.	1.3	2
158	Numerical Simulation of Gas Flow During Arcing Process for 252 kV Puffer Circuit Breakers. Plasma Science and Technology, 2011, 13, 730-734.	1.5	2
159	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
160	Experimental investigation on UHF partial discharge sensor in GIS. , 2015, , .		2
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