List of Publications by Year in descending order

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Δι-Πιν Υλνά

#	Article	IF	CITATIONS
1	A Novel Method for Magnetic Energy Harvesting Based on Capacitive Energy Storage and Core Saturation Modulation. IEEE Transactions on Industrial Electronics, 2023, 70, 2586-2595.	7.9	5
2	Fault Diagnosis of SF ₆ -Insulated Equipment by Micro Gas Sensor Array. IEEE Transactions on Power Delivery, 2023, 38, 222-230.	4.3	23
3	Detection of decomposition products of SF6/air gas mixture by electron attachment mass spectrometry. High Voltage, 2022, 7, 536-544.	4.7	4
4	Overheat diagnosis of power cable based on gas sensors: Device/material exploration. Sensors and Actuators B: Chemical, 2022, 350, 130837.	7.8	3
5	Virtual Alternating Current Measurements Advance Semiconductor Gas Sensors' Performance in the Internet of Things. IEEE Internet of Things Journal, 2022, 9, 5502-5510.	8.7	10
6	Capacitive Readout System for Micro Sensors and Actuators With Automatic Parasitic Cancellation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	1
7	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
8	Lightweight Neural Network for Gas Identification Based on Semiconductor Sensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	6
9	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
10	Low-Frequency Wireless Power Transfer Via Rotating Permanent Magnets. IEEE Transactions on Industrial Electronics, 2022, 69, 10656-10665.	7.9	11
11	1D fluid model of the interaction between helium APPJ and deionized water. Journal Physics D: Applied Physics, 2022, 55, 255204.	2.8	0
12	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
13	Study on the Insulation Performance and Decomposition Characteristics of C5F10O/CO2 Gas Mixture. Plasma Chemistry and Plasma Processing, 2022, 42, 957-971.	2.4	4
14	Electromagnetic Vibrational Energy Harvester With Microfabricated Springs and Flexible Coils. IEEE Transactions on Industrial Electronics, 2021, 68, 2684-2693.	7.9	23
15	Identification of gas mixtures via sensor array combining with neural networks. Sensors and Actuators B: Chemical, 2021, 329, 129090.	7.8	106
16	Multicomponent SF6 decomposition product sensing with a gas-sensing microchip. Microsystems and Nanoengineering, 2021, 7, 18.	7.0	6
17	Effects of H2O and O2 Impurities on the Trichel Pulses Characteristics of the Negative Point-Plane Corona Discharge in SF6. Plasma Chemistry and Plasma Processing, 2021, 41, 1101.	2.4	2
18	Experimental Studies on Insulation and Arc Extinguishing Performance of		1

C₅F₁₀O/CO₂ Gas Mixture., 2021,,.

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19	Hybrid piezo/triboelectric nanogenerator for stray magnetic energy harvesting and selfâ€powered sensing applications. High Voltage, 2021, 6, 978-985.	4.7	12
20	A Microtester for Measuring the Reliability of Microdevices in Controlled Environmental Conditions. Micromachines, 2021, 12, 585.	2.9	3
21	Simplification of plasma chemistry by means of vital nodes identification. Journal of Applied Physics, 2021, 130, .	2.5	2
22	Alloying of Alkali Metals with Tellurene. Advanced Energy Materials, 2021, 11, 2003248.	19.5	11
23	Detection and analysis of spark discharge products of C ₅ F ₁₀ O by electron attachment mass spectrometry. Journal Physics D: Applied Physics, 2021, 54, 045201.	2.8	7
24	Single ultrathin WO3 nanowire as a superior gas sensor for SO2 and H2S: Selective adsorption and distinct I-V response. Materials Chemistry and Physics, 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. Journal Physics D: Applied Physics, 2020, 53, 105202.	2.8	13
26	Short period sinusoidal thermal modulation for quantitative identification of gas species. Nanoscale, 2020, 12, 220-229.	5.6	30
27	Enhanced sensing of sulfur hexafluoride decomposition components based on noble-metal-functionalized cerium oxide. Materials and Design, 2020, 187, 108391.	7.0	16
28	The Decomposition Pathways of SF6 in the Presence of Organic Insulator Vapors. Plasma Chemistry and Plasma Processing, 2020, 40, 449-467.	2.4	9
29	A Deep Learning Method to Detect Foreign Objects for Inspecting Power Transmission Lines. IEEE Access, 2020, 8, 94065-94075.	4.2	21
30	Numerical simulation of the Trichel pulse characteristics in SF ₆ /N ₂ gas mixtures. Physics of Plasmas, 2020, 27, 113508.	1.9	8
31	Tunable SO2-sensing performance of arsenene induced by Stone-Wales defects and external electric field. Applied Surface Science, 2020, 523, 146403.	6.1	29
32	Antimonene: A Promising Candidate for SFâ,† Decomposition Gas Sensors With High Sensitivity and High Stability. IEEE Electron Device Letters, 2020, 41, 1408-1411.	3.9	20
33	Janus MoSSe monolayer: A highly strain-sensitive gas sensing material to detect SF6 decompositions. Sensors and Actuators A: Physical, 2020, 311, 112049.	4.1	35
34	Copper particle contamination detection of oil-immersed transformer using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 167, 105820.	2.9	9
35	Multivariate Evaluation Method for Screening Optimum Gas-Sensitive Materials for Detecting SF ₆ Decomposition Products. ACS Sensors, 2020, 5, 2025-2035.	7.8	8
36	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

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37	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
38	1D fluid model of RF-excited cold atmospheric plasmas in helium with air gas impurities. Physics of Plasmas, 2020, 27, .	1.9	10
39	Tunable adsorption behavior of small molecule on GeP monolayer by applied strain and electric field. Applied Surface Science, 2020, 520, 146257.	6.1	15
40	SF ₆ Decomposition Gas Sensor Based on GeP Monolayer: A First-Principle Study. IEEE Sensors Journal, 2020, 20, 8997-9003.	4.7	17
41	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
42	The effect of pH on the aqueous reactive species in sodium phosphate buffers induced by surface air discharge. Journal Physics D: Applied Physics, 2019, 52, 415201.	2.8	10
43	DFT+U study of sulfur hexafluoride decomposition components adsorbed on ceria (110) surface. Sensors and Actuators A: Physical, 2019, 298, 111590.	4.1	9
44	Chemisorption of NO ₂ to MoS ₂ Nanostructures and its Effects for MoS ₂ Sensors. ChemNanoMat, 2019, 5, 1123-1130.	2.8	41
45	Reactive species in cold atmospheric-pressure He + Air plasmas: The influence of humidity. Physics of Plasmas, 2019, 26, .	1.9	11
46	Influence of H2O and O2 on the main discharge mechanism in 50 Hz ac point-plane corona discharge. Physics of Plasmas, 2019, 26, .	1.9	14
47	Theoretical study of the decomposition mechanism of C ₄ F ₇ N. Journal Physics D: Applied Physics, 2019, 52, 245203.	2.8	27
48	Fabrication of polypyrrole/graphene oxide hybrid nanocomposite for ultrasensitive humidity sensing with unprecedented sensitivity. Journal of Materials Science: Materials in Electronics, 2019, 30, 4967-4976.	2.2	16
49	The varying characteristics of C5F10O decomposition components at 300 K - 3500 K with a chemical kinetic model. AIP Advances, 2019, 9, .	1.3	12
50	Tellurene based chemical sensor. Journal of Materials Chemistry A, 2019, 7, 26326-26333.	10.3	95
51	The decomposition mechanism of C4F7N-Cu gas mixtures. AIP Advances, 2019, 9, .	1.3	5
52	A miniaturized electromagnetic energy harvester with off-axis magnet and stacked flexible coils. , 2019, , .		2
53	Global model of cold atmospheric He + air plasmas: A comparison of Maxwellian and non-Maxwellian EEDFs. Physics of Plasmas, 2019, 26, .	1.9	4
54	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

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55	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
56	Highly selective detection of sulfur hexafluoride decomposition components H2S and SOF2 employing sensors based on tin oxide modified reduced graphene oxide. Carbon, 2018, 135, 95-103.	10.3	88
57	Recent advances in phosphorene as a sensing material. Nano Today, 2018, 20, 13-32.	11.9	134
58	A first principles theoretical study of the adsorption of SF6 decomposition gases on a cassiterite (110) surface. Materials Chemistry and Physics, 2018, 212, 453-460.	4.0	27
59	Hierarchical assembly of urchin-like alpha-iron oxide hollow microspheres and molybdenum disulphide nanosheets for ethanol gas sensing. Journal of Colloid and Interface Science, 2018, 523, 217-225.	9.4	39
60	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
61	Effects of adatom and gas molecule adsorption on the physical properties of tellurene: a first principles investigation. Physical Chemistry Chemical Physics, 2018, 20, 4058-4066.	2.8	87
62	Post-discharge evolution of reactive species in the water activated by a surface air plasma: a modeling study. Journal Physics D: Applied Physics, 2018, 51, 175202.	2.8	15
63	Time–frequency analysis of PDâ€induced UHF signal in GIS and feature extraction using invariant moments. IET Science, Measurement and Technology, 2018, 12, 169-175.	1.6	28
64	Aqueous Reactive Oxygen Species Induced by HeÂ+ÂO2 Plasmas: Chemistry Pathways and Dosage Control Approaches. Plasma Chemistry and Plasma Processing, 2018, 38, 89-105.	2.4	22
65	Influence of H ₂ O on the decomposition products and discharge mechanism of ac point-plane corona discharge. , 2018, , .		0
66	Influence of Al, Fe or Cu vapour on thermophysical properties of CO2 plasmas. European Physical Journal D, 2018, 72, 1.	1.3	3
67	Partial Discharge Recognition with a Multi-Resolution Convolutional Neural Network. Sensors, 2018, 18, 3512.	3.8	63
68	Compositions of SF <inf>6</inf> - H <inf>2</inf> O Decaying Arc at a Temperature Range of 1000–12000 K. , 2018, , .		0
69	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
70	Numerical simulation of negative point-plane corona discharge mechanism in SF ₆ gas. Plasma Sources Science and Technology, 2018, 27, 115001.	3.1	22
71	Combined Diffusion Coefficients in CO2 Thermal Plasmas Contaminated with Cu, Fe or Al. Plasma Chemistry and Plasma Processing, 2018, 38, 1133-1149.	2.4	0
72	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

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73	Theoretical study of the decomposition mechanism of SF ₆ /Cu gas mixtures. Journal Physics D: Applied Physics, 2018, 51, 425202.	2.8	8
74	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
75	A high-integration sensor array sensitive to oxynitride mixture. Sensors and Actuators B: Chemical, 2017, 245, 183-188.	7.8	14
76	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
77	Compositions, thermodynamic properties, and transport coefficients of high-temperature C5F10O mixed with CO2 and O2 as substitutes for SF6 to reduce global warming potential. AIP Advances, 2017, 7, .	1.3	61
78	Experiment of dielectric strength of C <inf>5</inf> F <inf>10</inf> O gas mixture and calculation of stratification. , 2017, , .		1
79	Insulation performance and liquefaction characteristic of C <inf>5</inf> F <inf>10</inf> 0/CO <inf>2</inf> gas mixture. , 2017, , .		4
80	Antimonene: A promising candidate for acetone sensors with high selectivity and sensitivity. , 2017, , .		5
81	Failure Prognosis of High Voltage Circuit Breakers with Temporal Latent Dirichlet Allocation. Energies, 2017, 10, 1913.	3.1	4
82	Calculation on the composition varying characteristics of decaying SF <inf>6</inf> arc in the presence of trace oxygen and moisture. , 2017, , .		1
83	Study on the laser-induced plasma properties of vacuum interrupter shield under different pressure. , 2017, , .		0
84	Effects of N <inf>2</inf> contents on the non-equilibrium composition in SF <inf>6</inf> decaying process. , 2017, , .		1
85	Analysis of partial discharge in leading-out terminal on distribution switchgear. , 2016, , .		0
86	Aqueous reactive species induced by a surface air discharge: Heterogeneous mass transfer and liquid chemistry pathways. Scientific Reports, 2016, 6, 23737.	3.3	200
87	Theoretical study of the decomposition pathways and products of C5- perfluorinated ketone (C5 PFK). AIP Advances, 2016, 6, .	1.3	50
88	Investigation on the formation reactions of SOF <inf>4</inf> and SO <inf>2</inf> F <inf>2</inf> under electric discharges. , 2016, , .		1
89	Effects of DC bias voltages on the RF-excited plasma–tissue interaction. Journal Physics D: Applied Physics, 2016, 49, 415201	2.8	3
90	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

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91	Propogation characteristics of PDâ€induced UHF signal in 126ÂkV GIS with threeâ€phase construction based on time–frequency analysis. IET Science, Measurement and Technology, 2016, 10, 805-812.	1.6	17
92	Electron heating and particle fluxes in dual frequency atmospheric-pressure helium capacitive discharge. Journal Physics D: Applied Physics, 2016, 49, 49LT01.	2.8	10
93	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
94	Humidity sensing using vertically oriented arrays of ReS ₂ nanosheets deposited on an interdigitated gold electrode. 2D Materials, 2016, 3, 045012.	4.4	42
95	Comparison between electropositive and electronegative cold atmosphericâ€pressure plasmas: a modelling study. High Voltage, 2016, 1, 81-85.	4.7	25
96	Determination of the Dominant Species and Reactions in Non-equilibrium CO2 Thermal Plasmas with a Two-Temperature Chemical Kinetic Model. Plasma Chemistry and Plasma Processing, 2016, 36, 1301-1323.	2.4	8
97	Thermodynamic Properties and Transport Coefficients of CO2–Cu Thermal Plasmas. Plasma Chemistry and Plasma Processing, 2016, 36, 1141-1160.	2.4	12
98	Comparative study of titrated oral misoprostol solution and vaginal dinoprostone for labor induction at term pregnancy. Archives of Gynecology and Obstetrics, 2016, 294, 495-503.	1.7	17
99	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
100	Calculated rate constants of the chemical reactions involving the main byproducts SO ₂ F, SOF ₂ , SO ₂ F ₂ of SF ₆ decomposition in power equipment. Journal Physics D: Applied Physics, 2016, 49, 155502.	2.8	82
101	The study of higher-order resonant and non-resonant boundary value problems. Electronic Journal of Qualitative Theory of Differential Equations, 2016, , 1-10.	0.5	1
102	Properties of a weakly ionized NO gas sensor based on multi-walled carbon nanotubes. Applied Physics Letters, 2015, 107, .	3.3	18
103	Propagation characteristics of atmospheric-pressure He+O2 plasmas inside a simulated endoscope channel. Journal of Applied Physics, 2015, 118, .	2.5	4
104	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
105	Physicochemical processes in the indirect interaction between surface air plasma and deionized water. Journal Physics D: Applied Physics, 2015, 48, 495201.	2.8	160
106	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
107	Dielectric breakdown properties of hot SF ₆ gas contaminated by copper at temperatures of 300–3500 K. Journal Physics D: Applied Physics, 2015, 48, 155205.	2.8	22
108	PTTG regulates the metabolic switch of ovarian cancer cells via the c-myc pathway. Oncotarget, 2015, 6, 40959-40969.	1.8	23

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109	Dielectric breakdown properties of hot SF6-CO2 mixtures at temperatures of 300–3500 K and pressures of 0.01–1.0 MPa. Physics of Plasmas, 2014, 21, .	1.9	51
110	Temporal modulation of plasma species in atmospheric dielectric barrier discharges. Physics of Plasmas, 2014, 21, 073507.	1.9	9
111	A Model of Plasma-Biofilm and Plasma-Tissue Interactions at Ambient Pressure. Plasma Chemistry and Plasma Processing, 2014, 34, 403-441.	2.4	158
112	A dominant role of oxygen additive on cold atmospheric-pressure He + O2 plasmas. Physics of Plasmas, 2014, 21, .	1.9	26
113	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
114	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
115	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
116	1-D fluid model of atmospheric-pressure rf He+O2 cold plasmas: Parametric study and critical evaluation. Physics of Plasmas, 2011, 18, .	1.9	64