Yasunori Tanaka

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2776050/publications.pdf

Version: 2024-02-01

215	2,204	279798	330143
papers	citations	23 h-index	37 g-index

215	215	215	1198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	3.5	116
2	Two-temperature chemically non-equilibrium modelling of high-power Arâ€“N2inductively coupled plasmas at atmospheric pressure. Journal Physics D: Applied Physics, 2004, 37, 1190-1205.	2.8	84
3	Prediction of dielectric properties of N2/O2mixtures in the temperature range of 300â€“3500ÂK. Journal Physics D: Applied Physics, 2004, 37, 851-859.	2.8	66
4	Recent progress in understanding the behavior of dust in fusion devices. Plasma Physics and Controlled Fusion, 2008, 50, 124054.	2.1	66
5	Evaluation of extra- and intracellular OH radical generation, cancer cell injury, and apoptosis induced by a non-thermal atmospheric-pressure plasma jet. Journal Physics D: Applied Physics, 2013, 46, 425401.	2.8	65
6	Investigation on plasma-quenching efficiency of various gases using the inductively coupled thermal plasma technique: effect of various gas injection on Ar thermal ICP. Journal Physics D: Applied Physics, 2002, 35, 2149-2158.	2.8	56
7	Hydrodynamic chemical non-equilibrium model of a pulsed arc discharge in dry air at atmospheric pressure. Plasma Sources Science and Technology, 2005, 14, 134-151.	3.1	51
8	Thermodynamic and transport properties of CO₂, CO₂â€“O₂, and CO₂â€“H₂ mixtures at temperatures of 300 to 30,000 K and pressures of 0.1 to 10 MPa. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2008, 163, 18-29.	0.4	43
9	Chemically non-equilibrium modelling of N2thermal ICP at atmospheric pressure using reaction kinetics. Journal Physics D: Applied Physics, 2002, 35, 468-476.	2.8	41
10	Simulation of Arc Root Fluctuation in a DC Non-Transferred Plasma Torch with Three Dimensional Modeling. Journal of Thermal Spray Technology, 2012, 21, 636-643.	3.1	41
11	A method for large-scale synthesis of Al-doped TiO₂nanopowder using pulse-modulated induction thermal plasmas with time-controlled feedstock feeding. Journal Physics D: Applied Physics, 2014, 47, 195304.	2.8	38
12	Particle composition of high-pressure SF/sub 6/ plasma with electron temperature greater than gas temperature. IEEE Transactions on Plasma Science, 1997, 25, 991-995.	1.3	36
13	Temperature control of Ar induction thermal plasma with diatomic molecular gases by pulse amplitude modulation of the coil current. Plasma Sources Science and Technology, 2003, 12, 69-77.	3.1	35
14	Time-dependent two-temperature chemically non-equilibrium modelling of high-power Arâ€“N2pulse-modulated inductively coupled plasmas at atmospheric pressure. Journal Physics D: Applied Physics, 2006, 39, 307-319.	2.8	35
15	Modeling of dust-particle behavior for different materials in plasmas. Physics of Plasmas, 2007, 14, 052504.	1.9	34
16	A high-speed photoresist removal process using multibubble microwave plasma under a mixture of multiphase plasma environment. Applied Physics Letters, 2013, 103, .	3.3	33
17	Synthesis of fullerenes from carbon powder by using high power induction thermal plasma. Thin Solid Films, 2001, 390, 31-36.	1.8	31
18	Influence of copper vapor contamination on dielectric properties of hot air at 300-3500 K in atmospheric pressure. IEEE Transactions on Dielectrics and Electrical Insulation, 2005, 12, 504-512.	2.9	30

#	Article	IF	Citations
19	Effect of ambient gas and pressure on fullerene synthesis in induction thermal plasma. Thin Solid Films, 2003, 425, 41-48.	1.8	29
20	On the determination of the multi-temperature SF6plasma composition. Journal Physics D: Applied Physics, 1999, 32, 1851-1856.	2.8	28
21	Nanoparticle synthesis using high-powered pulse-modulated induction thermal plasma. Journal Physics D: Applied Physics, 2010, 43, 265201.	2.8	28
22	Thomson scattering diagnostics of decay processes of Ar/SF₆gas-blast arcs confined by a nozzle. Journal Physics D: Applied Physics, 2013, 46, 382001.	2.8	28
23	Thomson scattering diagnostics of SF₆gas-blasted arcs confined by a nozzle under free-recovery conditions. Journal Physics D: Applied Physics, 2015, 48, 265201.	2.8	26
24	Thermodynamic and Transport Properties of N₂/O₂ Mixtures at Different Admixture Ratios. IEEJ Transactions on Power and Energy, 2000, 120, 24-30.	0.2	25
25	An Improved Local Thermal Equilibrium Model of DC Arc Plasma Torch. IEEE Transactions on Plasma Science, 2011, 39, 1974-1982.	1.3	25
26	Review of Thermal Plasma Simulation Technique. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1582-1594.	1.4	23
27	Comparisons of Two Models for the Simulation of a DC Arc Plasma Torch. Journal of Thermal Spray Technology, 2013, 22, 183-191.	3.1	22
28	Development of a Chemically Nonequilibrium Model on Decaying SF$_{6}$ Arc Plasmas. IEEE Transactions on Power Delivery, 2013, 28, 2623-2629.	4.3	22
29	Studies of dust transport in long pulse plasma discharges in the large helical device. Nuclear Fusion, 2015, 55, 053014.	3.5	22
30	Gas-Flow Simulation With Contact Moving in GCB Considering High-Pressure and High-Temperature Transport Properties of SF<tex>$_6$</tex>Gas. IEEE Transactions on Power Delivery, 2005, 20, 2466-2472.	4.3	20
31	Simultaneous control of numerical enhancement of N atoms and decrease in heat flux into reaction chamber using Arâ€“N2 pulse-modulated induction thermal plasmas. Applied Physics Letters, 2006, 89, 031501.	3.3	20
32	Mathematical Modeling and Numerical Simulation of Splat Cooling in Plasma Spray Coatings. Journal of Thermal Spray Technology, 2009, 18, 965-974.	3.1	20
33	Influence of coil current modulation on TiO2 nanoparticle synthesis using pulse-modulated induction thermal plasmas. Thin Solid Films, 2011, 519, 7100-7105.	1.8	20
34	Two-Temperature Two-Dimensional Non Chemical Equilibrium Modeling of Arâ€“CO2â€“H2 Induction Thermal Plasmas at Atmospheric Pressure. Plasma Chemistry and Plasma Processing, 2010, 30, 141-172.	2.4	19
35	Cathode diameter and operating parameter effects on hafnium cathode evaporation for oxygen plasma cutting arc. Journal Physics D: Applied Physics, 2012, 45, 435203.	2.8	18
36	Fundamental study of Ti feedstock evaporation and the precursor formation process in inductively coupled thermal plasmas during TiO₂nanopowder synthesis. Journal Physics D: Applied Physics, 2016, 49, 305501.	2.8	18

#	Article	IF	Citations
37	High-rate synthesis of Si nanowires using modulated induction thermal plasmas. Applied Physics Express, 2017, 10, 096201.	2.4	18
38	Generation of high-power arbitrary-wave-form modulated inductively coupled plasmas for materials processing. Applied Physics Letters, 2007, 90, 071502.	3.3	17
39	Controlling the number of excited atoms flowing into the reaction chamber using pulse-modulated induction thermal plasmas at atmospheric pressure. Plasma Sources Science and Technology, 2007, 16, 281-289.	3.1	17
40	A large amount synthesis of nanopowder using modulated induction thermal plasmas synchronized with intermittent feeding of raw materials. Journal of Physics: Conference Series, 2012, 406, 012001.	0.4	17
41	Efficient modification of Si/SiO_x nanoparticles by pulse-modulated plasma flash evaporation for an improved capacity of lithium-ion storage. Journal Physics D: Applied Physics, 2019, 52, 325502.	2.8	17
42	Thermally and chemically non-equilibrium modelling of Arâ€“N2â€“H2 inductively coupled plasmas at reduced pressure. Thin Solid Films, 2009, 518, 936-942.	1.8	16
43	Numerical investigation of the effect of cathode holder shape on hafnium cathode evaporation for an oxygen plasma cutting arc. Journal Physics D: Applied Physics, 2013, 46, 224012.	2.8	15
44	Investigation on chemically non-equilibrium arc behaviors of different gas media during arc decay phase in a model circuit breaker. Journal Physics D: Applied Physics, 2019, 52, 075202.	2.8	15
45	Transient distribution of metallic vapour concentration in a post-arc channel after current zero along the nozzle axis in a flat-type gas-blast quenching chamber. Journal Physics D: Applied Physics, 1996, 29, 1540-1550.	2.8	14
46	Modelling of a pulsed discharge in N2gas at atmospheric pressure. Journal Physics D: Applied Physics, 1999, 32, 3199-3207.	2.8	14
47	Responses of a long-coil pulse-modulated induction plasma. IEEE Transactions on Plasma Science, 2001, 29, 326-334.	1.3	14
48	Control of Nitrogen Atomic Density and Enthalpy Flow Into Reaction Chamber in $hbox{Ar/N}_{2}$ Pulse-Modulated Induction Thermal Plasmas. IEEE Transactions on Plasma Science, 2007, 35, 197-203.	1.3	14
49	Simulation of dynamics of carbon dust particles in the JT-60U tokamak. Journal of Nuclear Materials, 2011, 415, S1106-S1110.	2.7	13
50	Spatiotemporal distribution of thermal plasma temperature and precursor formation in a torch during TiO₂nanopowder synthesis. Plasma Sources Science and Technology, 2017, 26, 075008.	3.1	13
51	Silicon inclusion effect on fullerene formation under induction thermal plasma condition. Thin Solid Films, 2002, 407, 72-78.	1.8	12
52	Temperature Behavior in a Tandem Type of Modulated Induction Thermal Plasma for Materials Processings. Journal of Physics: Conference Series, 2013, 441, 012016.	0.4	12
53	Two-dimensional spectroscopic observation of a pulse-modulated induction thermal plasma torch for nanopowder synthesis. Journal of Physics: Conference Series, 2014, 550, 012026.	0.4	12
54	Transient behaviour of axial temperature distribution in post-arc channel after current zero around nozzle throat in flat-type SF6gas-blast quenching chamber. Journal Physics D: Applied Physics, 1995, 28, 2095-2103.	2.8	11

#	Article	IF	Citations
55	The opening process of thermal plasma contacts in a post-arc channel after current zero in a flat-type gas-blast quenching chamber. Journal Physics D: Applied Physics, 1997, 30, 407-416.	2.8	11
56	Measurement of Plasma Properties of the Atmospheric Oxy-Combustion Flame by Using Double Probe Method. Contributions To Plasma Physics, 2008, 48, 485-490.	1.1	11
57	Influence of emissivity on behavior of metallic dust particles in plasmas. Physics of Plasmas, 2008, 15, 073704.	1.9	11
58	Numerical and experimental investigations on thermal interaction between thermal plasma and solid polymer powders using induction thermal plasma technique. Journal Physics D: Applied Physics, 2008, 41, 025203.	2.8	11
59	Influence of on-time on increased number density of excited nitrogen atoms downstream of pulse-modulated induction thermal plasmas. Journal Physics D: Applied Physics, 2008, 41, 185203.	2.8	11
60	Computational simulation of reactive species production by methane-air DBD at high pressure and high temperature. Europhysics Letters, 2012, 97, 25001.	2.0	11
61	Experimental investigation of magnetic arc blow in plasma arc cutting. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 45-51.	2.5	11
62	Computational non-chemically equilibrium model on the current zero simulation in a model N₂circuit breaker under the free recovery condition. Journal Physics D: Applied Physics, 2016, 49, 055204.	2.8	11
63	Numerical study on the evaporation process of feedstock powder under transient states in pulse-modulated induction thermal plasmas for nanoparticle synthesis. Journal Physics D: Applied Physics, 2020, 53, 325201.	2.8	11
64	A comparative study of transient characteristics of argon and hydrogenated-argon pulse-modulated induction thermal plasma. IEEE Transactions on Plasma Science, 2002, 30, 327-337.	1.3	10
65	Modeling of Ar Induction Thermal Plasma with an Injection of PTFE Powder. IEEJ Transactions on Power and Energy, 2004, 124, 440-446.	0.2	10
66	Thermodynamic and Transport Properties of Ar Thermal Plasmas with Polymer Ablated Vapors and Influence of Their Inclusions on Plasma Temperature. JSME International Journal Series B, 2005, 48, 417-424.	0.3	10
67	Spallation Particle Ejection From Polymer Surface Irradiated by Thermal Plasmas. IEEE Transactions on Plasma Science, 2011, 39, 2776-2777.	1.3	10
68	Spatial distribution of Ti vapor admixture ratio in Ar induction thermal plasma torch during Ti feedstock injection. Japanese Journal of Applied Physics, 2018, 57, 036101.	1.5	10
69	The LTE Thermofluid Simulation of Ar/SF₆ Gas-Blast Arcs in a Nozzle Space in an Arc Device. IEEJ Transactions on Power and Energy, 2016, 136, 741-748.	0.2	10
70	Dynamic responses of Arâ€“CO2 and Arâ€“N2 induction thermal plasmas in pulse amplitude modulation approach. Thin Solid Films, 2003, 435, 19-26.	1.8	9
71	Numerical investigation of the swirl gas angle and arc current dependence on evaporation of hafnium cathode in a plasma cutting arc. IEEE Transactions on Plasma Science, 2012, 40, 497-504.	1.3	9
72	Time Evolution in Radiation Intensities of C₂and H Spectra in Ar/CH₄/H₂Pulse Modulated Induction Thermal Plasmas for Diamond Film Deposition. Journal of Physics: Conference Series, 2013, 441, 012017.	0.4	9

#	Article	IF	Citations
73	Novel design of high voltage pulse source for efficient dielectric barrier discharge generation by using silicon diodes for alternating current. Review of Scientific Instruments, 2017, 88, 065105.	1.3	9
74	Influence of coil current modulation on polycrystalline diamond film deposition by irradiation of Ar/CH₄/H₂inductively coupled thermal plasmas. Journal Physics D: Applied Physics, 2018, 51, 095601.	2.8	9
75	High rate synthesis of graphene-encapsulated silicon nanoparticles using pulse-modulated induction thermal plasmas with intermittent feedstock feeding. Japanese Journal of Applied Physics, 2020, 59, SHHE07.	1.5	9
76	Numerical Simulation of Thermal Interaction between Polymer and Ar Induction Thermal Plasma. IEEJ Transactions on Power and Energy, 2007, 127, 739-746.	0.2	9
77	Effect of Polymer Ablation Gas on Arc Quenching Properties around Current Zero. IEEJ Transactions on Power and Energy, 2011, 131, 609-620.	0.2	9
78	Extinguishing phenomenon and critical discharge boundaries of argon and molecular-gas-seeded argon pulse-modulated induction thermal plasmas. Plasma Sources Science and Technology, 2003, 12, 22-29.	3.1	8
79	Loop Type of Inductively Coupled Thermal Plasmas System for Rapid Two-Dimensional Oxidation of Si Substrate Surface. Plasma Chemistry and Plasma Processing, 2018, 38, 599-620.	2.4	8
80	Spatial-filter-installed Shackâ€“Hartmann sensor for two-dimensional electron density visualization of SF₆ arc discharge under strong turbulent flow. Journal Physics D: Applied Physics, 2018, 51, 345203.	2.8	8
81	Numerical study of temperature and gas flow fields in Arâ€“O₂ tandem-type inductively coupled thermal plasma with Ti feedstock powder injection. Journal Physics D: Applied Physics, 2019, 52, 414004.	2.8	8
82	Systematic investigation of the effect of N₂ admixture ratio on barrier discharge in helium. Journal Physics D: Applied Physics, 2019, 52, 065202.	2.8	8
83	Numerical thermofluid simulation on tandem type of induction thermal plasmas with and without current modulation in a lower coil. Journal Physics D: Applied Physics, 2020, 53, 165201.	2.8	8
84	Prediction of operating region of pulse-modulated radio frequency inductively coupled thermal plasma. Journal Physics D: Applied Physics, 2000, 33, 1843-1853.	2.8	7
85	Novel development of an inductively coupled thermal plasma with pulse amplitude modulation of electromagnetic field. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2002, 138, 26-33.	0.4	7
86	Thermodynamic and Transport Properties of CO2, CO2-O2 and CO2-H2 Mixtures at Temperatures of 300-30,000 K and at Pressures of 0.1-10 MPa. IEEJ Transactions on Power and Energy, 2006, 126, 80-90.	0.2	7
87	CO2 and H2 Gas Mixture Inclusion Effect on Shrinkage of Ar Induction Thermal Plasmas. IEEJ Transactions on Power and Energy, 2008, 128, 479-485.	0.2	7
88	Fundamental properties of a planar type of inductively coupled thermal plasma with current modulation. Journal Physics D: Applied Physics, 2016, 49, 385204.	2.8	7
89	Rapid Surface Oxidation of the Si Substrate Using Longitudinally Long Ar/O₂Loop Type of Inductively Coupled Thermal Plasmas. IEEE Transactions on Plasma Science, 2016, 44, 3164-3171.	1.3	7
90	Comparative study on extinction process of gas-blasted air and CO2arc discharge using two-dimensional electron density imaging sensor. Journal Physics D: Applied Physics, 2017, 50, 175202.	2.8	7

#	Article	IF	Citations
91	Evaluation of arc quenching characteristics of various gases using power semiconductors. Journal Physics D: Applied Physics, 2017, 50, 485602.	2.8	7
92	Simulation of impurity transport in the peripheral plasma due to the emission of dust in long pulse discharges on the Large Helical Device. Nuclear Materials and Energy, 2017, 12, 779-785.	1.3	7
93	Effects of dielectric properties on electrical characteristics of dielectric barrier discharge generated by low frequency uni-polar high voltage pulses. Japanese Journal of Applied Physics, 2019, 58, 111001.	1.5	7
94	Numerical thermofluid simulation of a decaying arc behavior in CO₂/O₂/C₅F₁₀O (C5â€PFK) considering more than nonaâ€atomic molecules. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, e21.	1.4	7
95	Influence of Polymer Vapor Concentration on Temperature of Ar Induction Thermal Plasmas During Polymer Solid Powder Injections. IEEJ Transactions on Power and Energy, 2005, 125, 1077-1083.	0.2	7
96	Numerical Simulation on Dynamics and Thermal Decomposition of Spallation Polymer Particles Flying in Polymer Ablated Arcs. IEEJ Transactions on Power and Energy, 2015, 135, 681-687.	0.2	7
97	Experimental Study of Erosion of hafnium electrodes for oxygen Plasma Arc Cutting. Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society, 2010, 28, 311-318.	0.5	7
98	Particle concentrations and transport properties of a partially ionized Ar plasma in a two-temperature reaction kinetic approach. Journal Physics D: Applied Physics, 2002, 35, 529-535.	2.8	6
99	Stable operation region and dynamic behavior of Ar pulse-modulated induction thermal plasma with different molecular gases. Electrical Engineering in Japan (English Translation of Denki Gakkai) Tj ETQq1 1 0.784314 rgBT /Overlock 10		6
100	Development of a chemically non-equilibrium model on decaying SF<inf>6</inf> arc plasmas. , 2011, , .		6
101	Evaluation on current interruption ability of CO2 and SF6 using current and voltage application highly controlled by power semiconductors. , 2015, , .		6
102	Analysis of the three-dimensional trajectories of dusts observed with a stereoscopic fast framing camera in the Large Helical Device. Journal of Nuclear Materials, 2015, 463, 861-864.	2.7	6
103	Influence of the gas flow rate on the nonchemical equilibrium N₂arc behavior in a model nozzle circuit breaker. Journal Physics D: Applied Physics, 2016, 49, 425202.	2.8	6
104	Influence of sheath gas flow rate in Ar induction thermal plasma with Ti powder injection on the plasma temperature by numerical calculation. MATEC Web of Conferences, 2018, 218, 04030.	0.2	6
105	Effect of Intermittent Injection of Ar/CH4 Quenching Gas on Particle Composition and Size of Si/C Nanoparticles Synthesized by Modulated Induction Thermal Plasma. Plasma Chemistry and Plasma Processing, 2021, 41, 1121-1147.	2.4	6
106	Transient Nature of Argon and Molecular Gas-Seeded Argon Inductive Thermal Plasmas in Pulse Amplitude Modulation Approach. IEEJ Transactions on Power and Energy, 2003, 123, 1333-1339.	0.2	6
107	Dominant spectra of background radiation in a SF/sub 6/ post-arc channel. IEEE Transactions on Plasma Science, 1997, 25, 986-990.	1.3	5
108	Erosion and dust formation of graphite materials under low-energy and high-flux atomic hydrogen irradiation. Physica Scripta, 2009, T138, 014056.	2.5	5

#	Article	IF	Citations
109	Numerical simulation on dynamics of spallation particles ejected from polyamide materials during irradiation of ar thermal plasma. , 2011, , .		5
110	Effect of polymer ablation gas on arc quenching properties around current zero. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2012, 180, 32-45.	0.4	5
111	Enhancement of Non-Equilibrium Atmospheric Pressure He Plasma Discharges by Using Silicon Diode for Alternating Current. Journal of Physics: Conference Series, 2013, 441, 012018.	0.4	5
112	Fundamentals of planar-type inductively coupled thermal plasmas on a substrate for large-area material processing. Japanese Journal of Applied Physics, 2016, 55, 07LB03.	1.5	5
113	Uniform Surface Oxidation of an Si Substrate by a Planar Modulated Inductively Coupled Thermal Plasma with Molecular Gas Feed. Plasma Chemistry and Plasma Processing, 2017, 37, 857-876.	2.4	5
114	A numerical model on dynamic behavior of vapor from the electrode in low-pressure arcs using moving particle method. , 2017, , .		5
115	Thermal re-ignition processes of switching arcs with various gas-blast using voltage application highly controlled by powersemiconductors. Journal Physics D: Applied Physics, 2018, 51, 215202.	2.8	5
116	Numerical Modelling of Vapor Dynamics in Vacuum Arcs between Electrodes with Metal Shield Wall using Moving Particle Method. , 2019, , .		5
117	Numerical Simulation on Quenching Process of Carbon Dioxide Arcs with Hydrogen Gas Inclusion in Different Nozzle Shapes. IEEJ Transactions on Power and Energy, 2013, 133, 895-902.	0.2	5
118	Fundamental Investigation Technique on Gas-blast Arc Behaviors in Decaying and Re-ignition Processes using Power Semiconductors. IEEJ Transactions on Power and Energy, 2015, 135, 661-668.	0.2	5
119	Experimental study of phenomena on electrode for Oxygen Plasma Arc Cutting torch. Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society, 2011, 29, 010-017.	0.5	5
120	Observation of non-chemical equilibrium effect on Arâ€“CO2â€“H2 thermal plasma model by changing pressure. Thin Solid Films, 2009, 518, 943-951.	1.8	4
121	Experimental Study of Consumption of Hafnium Electrode in Oxygen Plasma Arc Cutting. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 72-81.	2.5	4
122	Plasmaâ€quenching efficiency of ablated vapor of polymer containing nitrogen atoms using inductively coupled thermal plasma technique. Electrical Engineering in Japan (English Translation of Denki) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 21	0.4	4
123	The LTE simulation on decaying arc plasmas in various arc quenching gases in a model circuit breaker. , 2015, , .		4
124	Thin film deposition method for ZnO nanosheets using low-temperature microwave-excited atmospheric pressure plasma jet. Thin Solid Films, 2019, 674, 58-63.	1.8	4
125	Polycrystalline diamond film fabrication using modulated inductively coupled thermal plasmas at different pressure conditions. Journal of Applied Physics, 2019, 126, 223302.	2.5	4
126	Investigation on Effective Ionization Coefficient and Critical Electric Field in Air in Temperature Range of 300-3500 K by Solving Boltzmann Equation. IEEJ Transactions on Power and Energy, 2003, 123, 1380-1386.	0.2	4

#	Article	IF	Citations
127	Thermofluid Simulation of Arc Plasmas Confined by a Polymer Hollow Cylinder. IEEJ Transactions on Power and Energy, 2011, 131, 196-204.	0.2	4
128	Numerical study of nanoparticle formation in two-coil tandem-type modulated induction thermal plasmas with simultaneous modulation of upper- and lower-coil currents. Journal Physics D: Applied Physics, 2022, 55, 044001.	2.8	4
129	Plasma Quenching Effect of Different Environmentally-benign Gases at Atmospheric Pressure using ICTP Technique. IEEJ Transactions on Power and Energy, 2001, 121, 837-844.	0.2	4
130	Gas Flow Simulation in GCB Chambers Featuring Hot Gas Energy. IEEJ Transactions on Power and Energy, 2005, 125, 771-776.	0.2	4
131	Generation of Inductively Coupled Thermal Plasma with Pulse Modulated Mode. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1999, 63, 2-8.	0.4	3
132	Investigation on Effective Ionization Coefficient and Critical Electric Field in Air in Temperature Range of 300-3500 K by Solving Boltzmann Equation. IEEJ Transactions on Power and Energy, 2004, 124, 162-168.	0.2	3
133	Transient Response Simulation of Downstream Thermofluid Field in a Gas Circuit Breaker during Current Interruption. JSME International Journal Series B, 2005, 48, 381-388.	0.3	3
134	The 3D Simulation of Dust Particle Transport. Contributions To Plasma Physics, 2006, 46, 611-616.	1.1	3
135	Development of a quasi-direct temperature control system of modulated induction thermal plasmas for advanced materials processing. Plasma Sources Science and Technology, 2013, 22, 065016.	3.1	3
136	Removal of carbon deposited film and hydrogen retention control by low temperature Hâ€“Câ€“N reactive plasmas. Journal of Nuclear Materials, 2013, 438, S1092-S1095.	2.7	3
137	Development of a thermally and chemically non-equilibrium model for decaying SF<inf>6</inf> arc plasmas. , 2013, , .		3
138	Experimental study of magnetic arc blow for plasma arc cutting. Welding International, 2015, 29, 745-753.	0.7	3
139	Numerical simulation on thermal plasma temperature field in the torch for different conditions. IOP Conference Series: Materials Science and Engineering, 2018, 309, 012090.	0.6	3
140	Synthesis of Nanosize Particles in Thermal Plasmas. , 2018, , 2791-2828.		3
141	Recent development of new inductively coupled thermal plasmas for materials processing. Advances in Physics: X, 2021, 6, .	4.1	3
142	Nanoparticle synthesis using two-coil tandem-type modulated induction thermal plasmas. Powder Technology, 2021, 389, 460-470.	4.2	3
143	Synthesis of Nano-size Particles in Thermal Plasmas. , 2017, , 1-38.		3
144	Diagnosis of Arc Quenching Property of SF₆ Gas using Inductively Coupled Thermal Plasma Technique. IEEJ Transactions on Power and Energy, 2001, 121, 758-766.	0.2	3

#	Article	IF	Citations
145	Improved Uniformity of Photoresist Ashing for a Half-Inch Wafer with Double U-shaped Antenna Structure in a Microwave-Excited Water Vapor Plasma. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 479-484.	0.3	3
146	Temporal Variations of Optical Emission Spectra in Microwave-Excited Plasma in Saturated Water Vapor under Reduced Pressure during Photoresist Removal. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 469-478.	0.3	3
147	Study of Ablation Phenomena of Polymer Bulk Irradiated by Thermal Plasmas Using Induction Thermal Plasma Technique. Plasma Chemistry and Plasma Processing, 2022, 42, 1015-1043.	2.4	3
148	Production of nonequilibrium plasma and MHD interaction in disk MHD channel. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2002, 138, 42-49.	0.4	2
149	Modulated Induction Thermal Plasmas â€“ Fundamentals and Applications â€“. IEEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 465-475.	1.4	2
150	Simulation Analysis of Dust-Particle Transport in the Peripheral Plasma in the Large Helical Device. Plasma and Fusion Research, 2014, 9, 3403132-3403132.	0.7	2
151	Spallation occurrence from polyamide materials irradiated by thermal plasma with water absorption. Journal Physics D: Applied Physics, 2016, 49, 385501.	2.8	2
152	Non-equilibrium Studies in Switching Arc Plasmas in Japan. Plasma Physics and Technology, 2017, 4, 225-233.	0.3	2
153	Numerical parametric investigation on the temperature distribution in Ar/O₂ induction thermal plasmas with Ti powder injection: Inclusion of particle evaporation. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 12-23.	1.4	2
154	Observation system of molten steel behavior on plasma arc cutting surface. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 796-801.	1.4	2
155	Three-Dimensional Two-Temperature Modeling of Ar Loop-Type Inductively Coupled Thermal Plasma for Surface Modification. Plasma Chemistry and Plasma Processing, 2021, 41, 85-108.	2.4	2
156	Characteristic Analysis of Low Pressure Dielectric Barrier Discharges Generated by using Silicon Diode for Alternating Current. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 182-188.	0.2	2
157	Chemical Erosion of Diamond-Coated Graphite under Low-Energy Hydrogen Atom Irradiation. Plasma and Fusion Research, 2010, 5, 003-003.	0.7	2
158	Optical Emission and Mass Spectra Observations during Hydrogen Combustion in Atmospheric Pressure Microwave Plasma. Plasma and Fusion Research, 2012, 7, 2401075-2401075.	0.7	2
159	Comparative Study of Influence of Simultaneous Modulation of Upper-Coil and Lower-Coil Currents on Silicon Nanoparticles Synthesized Using Tandem-Type Modulated Induction Thermal Plasmas. Plasma Chemistry and Plasma Processing, 0, , 1.	2.4	2
160	Dust in fusion plasmas: theory and modeling. AIP Conference Proceedings, 2008, , .	0.4	1
161	Positron Trapping Sites Originating from Oxide Interfaces on 4H-SiC C(000ar1)- and Si(0001)-Faces. Japanese Journal of Applied Physics, 2008, 47, 8391-8393.	1.5	1
162	Numerical Simulation of Solid Particle Ablation in Thermal Plasmas using CIPâ€VOF Method. IEEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 488-496.	1.4	1

#	Article	IF	Citations
163	Two-temperature non-chemical equilibrium analysis of Arâ€“CH4â€“O2 ICTP at reduced pressure. Thin Solid Films, 2010, 518, 3535-3540.	1.8	1
164	Fundamental studies on switching arcs â€” Experimental and numerical approaches. , 2017, , .		1
165	Investigation of dust shielding effect of intrinsic ergodic magnetic field line structures in the peripheral plasma in the large helical device. Contributions To Plasma Physics, 2018, 58, 616-621.	1.1	1
166	Influence of current modulation waveform on polycrystalline diamond film deposition using modulated induction thermal plasmas– Numerical and experimental studies –. Journal Physics D: Applied Physics, 0, , .	2.8	1
167	Numerical study of polymer-ablation arc with polyacrylic acid + H₂O mixture. Journal Physics D: Applied Physics, 2021, 54, 145203.	2.8	1
168	Influence of input power in Ar/H2 thermal plasma with silicon powder by numerical simulation. Telkomnika (Telecommunication Computing Electronics and Control), 2019, 17, 1047.	0.8	1
169	Carbon Erosion and Dust Formation under Heavy Atomic Hydrogen Irradiation. Plasma and Fusion Research, 2008, 3, 025-025.	0.7	1
170	Suppression of Carbon Dust Formation by Nitrogen Injection into Hydrogen Plasmas in Detached Plasma Conditions. Plasma and Fusion Research, 2010, 5, 004-004.	0.7	1
171	Fundamentals and Applications of High-pressure Induction Thermal Plasmas with Coil Current Modulation. The Open Plasma Physics Journal, 2009, 2, 120-132.	0.7	1
172	Experimental Study on Reâ€ignition Process in CO 2 / C 2 F 6 Gas Mixture Flow after Application of Quasiâ€Transient Recovery Voltage. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 1672.	1.4	1
173	Development of a Numerical Model on Metallic Vapor Behavior in Vacuum Arc Based on Moving Particle Semi-implicit Method and Finite Volume Method. , 2021, , .		1
174	Time evolution in visible light emission from high-power Ar pulse-modulated induction thermal plasmas. IEEE Transactions on Plasma Science, 2005, 33, 406-407.	1.3	0
175	Numerical Modeling of Behavior of Dust Made of Different Materials in Plasmas. Contributions To Plasma Physics, 2008, 48, 295-299.	1.1	0
176	Spatial Distribution of $hbox{C}_{2}$ Spectra From Induction Thermal Plasmas With Polymer Powder Injection. IEEE Transactions on Plasma Science, 2008, 36, 1058-1059.	1.3	0
177	Numerical simulation of thermal interaction between polymer and argon induction thermal plasma. Electronics and Communications in Japan, 2009, 92, 24-33.	0.5	0
178	Study of carbon dust formation and their structure using inductively coupled plasmas under high atomic hydrogen irradiation. Journal of Nuclear Materials, 2009, 390-391, 188-191.	2.7	0
179	Plasma temperature decay due to polymer ablation by thermal plasma irradiation. , 2009, , .		0
180	Suppression of carbon dust agglomeration and volatile molecular formation in Câ€“Hâ€“N reactive molecular system. Journal of Nuclear Materials, 2011, 415, S1081-S1084.	2.7	0

#	Article	IF	Citations
181	Effect of N<inf>2</inf>/O<inf>2</inf> inclusion on polymer ablation and spallation phenomena from polyamide during thermal plasma irradiation. , 2013, , .		0
182	Prompt response and durability of polymer ablation from synthetic fibers irradiated by thermal plasmas for arc resistant clothes. Journal of Physics: Conference Series, 2013, 441, 012037.	0.4	0
183	Experimental Study of Magnetic Arc Blow for Plasma Arc Cutting. Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society, 2013, 31, 193-200.	0.5	0
184	Suppression of hydrogenated carbon film deposition and hydrogen isotope retention by nitrogen addition into cold remote H/D and CH4 mixture plasmas. Journal of Nuclear Materials, 2015, 463, 693-696.	2.7	0
185	Chemically non-equilibrium model of decaying N2 arcs in a model circuit breaker. , 2015, , .		0
186	Energy Density Dependence of Hydrogen Combustion Efficiency in Atmospheric Pressure Microwave Plasma. Fusion Science and Technology, 2015, 67, 650-653.	1.1	0
187	Initial condition dependence of dynamics and evaporation of polymer spallation particles flying in polymer ablated arcs. , 2015, , .		0
188	Non-equilibrium effects on SF6 arc plasmas in decaying phases. , 2015, , .		0
189	Fundamental study on re-ignition process for CO<inf>2</inf>-blast arcs in a model circuit breaker using synthetic tests highly controlled by power semiconductors. , 2017, , .		0
190	Comparative study on arc extinction process under air, CO2 and SF6 gas blasting using two-dimensional electron density imaging sensor. CIRED - Open Access Proceedings Journal, 2017, 2017, 65-68.	0.1	0
191	Dielectric recovery property measurements of CO<inf>2</inf> and air arcs under free recovery condition using power semiconductors. , 2017, , .		0
192	Numerical thermofluid simulation of high current air arcs at fault point contaminated with metal vapor from evaporation of metal electrode in open air. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, e7.	1.4	0
193	Guest Editorial Introduction to the Special Issue on the 10th Asia-Pacific Symposium on Plasma Technology (APSPT 2017). IEEE Transactions on Plasma Science, 2019, 47, 1034-1035.	1.3	0
194	Hybrid Thermofluid Simulation with Chemically Non-Equilibrium and Equilibrium Calculations for Decaying SF6 Arcs. , 2019, , .		0
195	Comparison of Non-Chemical Equilibrium Effects in the Decaying Arc in Different Gases and Conditions. , 2019, , .		0
196	Thermodynamic and Transport Characteristics of High Temperature Atmospheric Air Arcs containing Two Different Metal Vapor of Cu, Fe and Al. , 2019, , .		0
197	Numerical Thermofluid Simulation on 10 kA-class High Current Fault Arcs in Air Contaminated with Metal Vapor from Evaporation of Metal Electrodes in Open Air. , 2019, , .		0
198	High-rate Deposition of Polycrystalline Diamond Film Using Time-series Exposure of Modulated/Non-modulated Induction Thermal Plasmas at Different Flow Rates of Carbon Source Gas. Plasma Chemistry and Plasma Processing, 2021, 41, 757-777.	2.4	0

#	Article	IF	Citations
199	Introduction to the Special Issue on the APSPT-11. IEEE Transactions on Plasma Science, 2021, 49, 2-3.	1.3	0
200	Comparison of Vibrational-Rotational Temperature and Excitation Temperature in Ar-Molecular Gas Induction Thermal Plasmas. IEEJ Transactions on Power and Energy, 2007, 127, 936-942.	0.2	0
201	Plasma-Quenching Efficiency of Ablated Vapor of Polymer Containing Nitrogen Atoms using Inductively Coupled Thermal Plasma Technique. IEEJ Transactions on Power and Energy, 2009, 129, 461-468.	0.2	0
202	Preface to Special Issue on New Development of Numerical Simulation Technology of High Current Phenomena. IEEJ Transactions on Power and Energy, 2013, 133, 404-404.	0.2	0
203	11th Asia-Pacific Conference on Plasma Science and Technology (APCPST-11) and 25th Symposium on Plasma Science for Materials (SPSM-25). Journal of Physics: Conference Series, 2013, 441, 011001.	0.4	0
204	Preface to Special Issue on â€œJoint Conference of IWHV2012 & JK2012 on ED&HVEâ€• IEEJ Transactions on Power and Energy, 2014, 134, 198-198.	0.2	0
205	Recent Activities of Technical Committee on Plasma Science and Technology. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 16-17.	0.2	0
206	Recent Activities of Technical Committee on Plasma Science and Technology. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 8-9.	0.2	0
207	Visualization on Evaporation Process of Feedstock and Transport of Atoms and Molecules in Thermal Plasma during Nanoparticle Synthesis. Journal of Smart Processing, 2019, 8, 52-57.	0.1	0
208	Two-Dimensional Spectroscopy for Vacuum Arc in Steady State and Decaying State under Free-Recovery Condition. , 2021, , .		0
209	A Review of New Development of Functional Induction Thermal Plasmas and its Applications to Materials Processing. , 2021, , .		0
210	Development of a numerical model for metal vapor dynamics in low pressure arcs based on moving particle semiâ€implicit method and influence of shield wall radius on vapor behavior. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2022, 215, .	0.4	0
211	Numerical prediction on arc characteristics for various polymer materials during polymerâ€ablated arc ignition process. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 0, , .	0.4	0
212	Numerical Simulation on Decaying Arcs in Molecular Gas Flow including C, F and O. , 2022, , .		0
213	Temperature Measurement of SF₆ Arcs in Thermal Interruption Region Around Current Zero in Gas Circuit Breakers Using Optical Emission Spectroscopy. , 2022, , .		0
214	Numerical Study on Decaying Arcs under Free Recovery Condition in CO₂/SF₆ Gas Mixture for Various Gas Flow Rates. , 2022, , .		0
215	Hybrid Thermofluid Modeling with LTE and non-LTE Assumption for Decaying Molecular Gas Arcs. , 2022, , .		0