

# Yasunori Tanaka

## List of Publications by Year in descending order

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215  
papers

2,204  
citations

279798

23  
h-index

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215  
all docs

215  
docs citations

215  
times ranked

1198  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Development of a numerical model for metal vapor dynamics in low pressure arcs based on moving particle semi-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
3	Numerical Simulation on Decaying Arcs in Molecular Gas Flow including C, F and O. , 2022, , .		0
4	Temperature Measurement of SF <sub>6</sub> Arcs in Thermal Interruption Region Around Current Zero in Gas Circuit Breakers Using Optical Emission Spectroscopy. , 2022, , .		0
5	Numerical Study on Decaying Arcs under Free Recovery Condition in CO <sub>2</sub> /SF <sub>6</sub> Gas Mixture for Various Gas Flow Rates. , 2022, , .		0
6	Hybrid Thermofluid Modeling with LTE and non-LTE Assumption for Decaying Molecular Gas Arcs. , 2022, , .		0
7	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
8	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
9	Recent development of new inductively coupled thermal plasmas for materials processing. Advances in Physics: X, 2021, 6, .	4.1	3
10	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
11	Effect of Intermittent Injection of Ar/CH <sub>4</sub> 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
12	Nanoparticle synthesis using two-coil tandem-type modulated induction thermal plasmas. Powder Technology, 2021, 389, 460-470.	4.2	3
13	Numerical study of polymer-ablation arc with polyacrylic acid + H <sub>2</sub> O mixture. Journal Physics D: Applied Physics, 2021, 54, 145203.	2.8	1
14	Introduction to the Special Issue on the APSPT-11. IEEE Transactions on Plasma Science, 2021, 49, 2-3.	1.3	0
15	Experimental Study on Re-ignition Process in CO <sub>2</sub> / C <sub>2</sub> F <sub>6</sub> Gas Mixture Flow after Application of Quasi-Transient Recovery Voltage. IEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 1672.	1.4	1
16	Two-Dimensional Spectroscopy for Vacuum Arc in Steady State and Decaying State under Free-Recovery Condition. , 2021, , .		0
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	A Review of New Development of Functional Induction Thermal Plasmas and its Applications to Materials Processing. , 2021, , .		0
21	Numerical parametric investigation on the temperature distribution in Ar/O <sub>2</sub> 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
22	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
23	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
24	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
25	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
26	Numerical study of temperature and gas flow fields in Ar/O <sub>2</sub> tandem-type inductively coupled thermal plasma with Ti feedstock powder injection. Journal Physics D: Applied Physics, 2019, 52, 414004.	2.8	8
27	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
28	Review of Thermal Plasma Simulation Technique. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1582-1594.	1.4	23
29	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
30	Numerical thermofluid simulation of a decaying arc behavior in CO <sub>2</sub> /O <sub>2</sub> /C <sub>5</sub> F <sub>10</sub> O (C5â€PFK) considering more than nonaâ€atomic molecules. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, e21.	1.4	7
31	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
32	Efficient modification of Si/SiO <sub>2</sub> 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
33	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
34	Hybrid Thermofluid Simulation with Chemically Non-Equilibrium and Equilibrium Calculations for Decaying SF <sub>6</sub> Arcs. , 2019, , .		0
35	Comparison of Non-Chemical Equilibrium Effects in the Decaying Arc in Different Gases and Conditions. , 2019, , .		0
36	Thermodynamic and Transport Characteristics of High Temperature Atmospheric Air Arcs containing Two Different Metal Vapor of Cu, Fe and Al. , 2019, , .		0

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37	Numerical Modelling of Vapor Dynamics in Vacuum Arcs between Electrodes with Metal Shield Wall using Moving Particle Method. , 2019, , .		5
38	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
39	Polycrystalline diamond film fabrication using modulated inductively coupled thermal plasmas at different pressure conditions. Journal of Applied Physics, 2019, 126, 223302.	2.5	4
40	Systematic investigation of the effect of N <sub>2</sub> admixture ratio on barrier discharge in helium. Journal Physics D: Applied Physics, 2019, 52, 065202.	2.8	8
41	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
42	Influence of input power in Ar/H <sub>2</sub> thermal plasma with silicon powder by numerical simulation. Telkomnika (Telecommunication Computing Electronics and Control), 2019, 17, 1047.	0.8	1
43	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
44	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
45	Influence of coil current modulation on polycrystalline diamond film deposition by irradiation of Ar/CH <sub>4</sub> /H <sub>2</sub> inductively coupled thermal plasmas. Journal Physics D: Applied Physics, 2018, 51, 095601.	2.8	9
46	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
47	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
48	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
49	Synthesis of Nanosize Particles in Thermal Plasmas. , 2018, , 2791-2828.		3
50	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
51	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
52	Spatial-filter-installed Shack-Hartmann sensor for two-dimensional electron density visualization of SF <sub>6</sub> arc discharge under strong turbulent flow. Journal Physics D: Applied Physics, 2018, 51, 345203.	2.8	8
53	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
54	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

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55	Comparative study on extinction process of gas-blasted air and CO <sub>2</sub> arc discharge using two-dimensional electron density imaging sensor. Journal Physics D: Applied Physics, 2017, 50, 175202.	2.8	7
56	Evaluation of arc quenching characteristics of various gases using power semiconductors. Journal Physics D: Applied Physics, 2017, 50, 485602.	2.8	7
57	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	3.5	116
58	High-rate synthesis of Si nanowires using modulated induction thermal plasmas. Applied Physics Express, 2017, 10, 096201.	2.4	18
59	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
60	Spatiotemporal distribution of thermal plasma temperature and precursor formation in a torch during TiO <sub>2</sub> nanopowder synthesis. Plasma Sources Science and Technology, 2017, 26, 075008.	3.1	13
61	Fundamental study on re-ignition process for CO <sub>2</sub> -blast arcs in a model circuit breaker using synthetic tests highly controlled by power semiconductors. , 2017, , .		0
62	Fundamental studies on switching arcs “ Experimental and numerical approaches. , 2017, , .		1
63	Comparative study on arc extinction process under air, CO <sub>2</sub> and SF <sub>6</sub> gas blasting using two-dimensional electron density imaging sensor. CIREP - Open Access Proceedings Journal, 2017, 2017, 65-68.	0.1	0
64	Non-equilibrium Studies in Switching Arc Plasmas in Japan. Plasma Physics and Technology, 2017, 4, 225-233.	0.3	2
65	Dielectric recovery property measurements of CO <sub>2</sub> and air arcs under free recovery condition using power semiconductors. , 2017, , .		0
66	A numerical model on dynamic behavior of vapor from the electrode in low-pressure arcs using moving particle method. , 2017, , .		5
67	Synthesis of Nano-size Particles in Thermal Plasmas. , 2017, , 1-38.		3
68	Recent Activities of Technical Committee on Plasma Science and Technology. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 8-9.	0.2	0
69	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
70	Spallation occurrence from polyamide materials irradiated by thermal plasma with water absorption. Journal Physics D: Applied Physics, 2016, 49, 385501.	2.8	2
71	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
72	Influence of the gas flow rate on the nonchemical equilibrium N <sub>2</sub> arc behavior in a model nozzle circuit breaker. Journal Physics D: Applied Physics, 2016, 49, 425202.	2.8	6

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73	Fundamental study of Ti feedstock evaporation and the precursor formation process in inductively coupled thermal plasmas during TiO <sub>2</sub> nanopowder synthesis. Journal Physics D: Applied Physics, 2016, 49, 305501.	2.8	18
74	Rapid Surface Oxidation of the Si Substrate Using Longitudinally Long Ar/O <sub>2</sub> Loop Type of Inductively Coupled Thermal Plasmas. IEEE Transactions on Plasma Science, 2016, 44, 3164-3171.	1.3	7
75	Computational non-chemically equilibrium model on the current zero simulation in a model N <sub>2</sub> circuit breaker under the free recovery condition. Journal Physics D: Applied Physics, 2016, 49, 055204.	2.8	11
76	The LTE Thermofluid Simulation of Ar/SF <sub>6</sub> Gas-Blast Arcs in a Nozzle Space in an Arc Device. IEEE Transactions on Power and Energy, 2016, 136, 741-748.	0.2	10
77	Recent Activities of Technical Committee on Plasma Science and Technology. IEEE Transactions on Fundamentals and Materials, 2016, 136, 16-17.	0.2	0
78	The LTE simulation on decaying arc plasmas in various arc quenching gases in a model circuit breaker. , 2015, , .		4
79	Evaluation on current interruption ability of CO <sub>2</sub> and SF <sub>6</sub> using current and voltage application highly controlled by power semiconductors. , 2015, , .		6
80	Suppression of hydrogenated carbon film deposition and hydrogen isotope retention by nitrogen addition into cold remote H/D and CH <sub>4</sub> mixture plasmas. Journal of Nuclear Materials, 2015, 463, 693-696.	2.7	0
81	Chemically non-equilibrium model of decaying N <sub>2</sub> arcs in a model circuit breaker. , 2015, , .		0
82	Energy Density Dependence of Hydrogen Combustion Efficiency in Atmospheric Pressure Microwave Plasma. Fusion Science and Technology, 2015, 67, 650-653.	1.1	0
83	Thomson scattering diagnostics of SF <sub>6</sub> gas-blasted arcs confined by a nozzle under free-recovery conditions. Journal Physics D: Applied Physics, 2015, 48, 265201.	2.8	26
84	Initial condition dependence of dynamics and evaporation of polymer spallation particles flying in polymer ablated arcs. , 2015, , .		0
85	Non-equilibrium effects on SF <sub>6</sub> arc plasmas in decaying phases. , 2015, , .		0
86	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
87	Studies of dust transport in long pulse plasma discharges in the large helical device. Nuclear Fusion, 2015, 55, 053014.	3.5	22
88	Experimental study of magnetic arc blow for plasma arc cutting. Welding International, 2015, 29, 745-753.	0.7	3
89	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
90	Characteristic Analysis of Low Pressure Dielectric Barrier Discharges Generated by using Silicon Diode for Alternating Current. IEEE Transactions on Fundamentals and Materials, 2015, 135, 182-188.	0.2	2

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91	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
92	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
93	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
94	A method for large-scale synthesis of Al-doped TiO <sub>2</sub> nanopowder using pulse-modulated induction thermal plasmas with time-controlled feedstock feeding. Journal Physics D: Applied Physics, 2014, 47, 195304.	2.8	38
95	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
96	Preface to Special Issue on "Joint Conference of IWHV2012 & JK2012 on ED&HVE". IEEJ Transactions on Power and Energy, 2014, 134, 198-198.	0.2	0
97	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
98	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
99	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
100	Thomson scattering diagnostics of decay processes of Ar/SF <sub>6</sub> gas-blast arcs confined by a nozzle. Journal Physics D: Applied Physics, 2013, 46, 382001.	2.8	28
101	Effect of N <sub>2</sub> /O <sub>2</sub> inclusion on polymer ablation and spallation phenomena from polyamide during thermal plasma irradiation. , 2013, , .		0
102	Removal of carbon deposited film and hydrogen retention control by low temperature H <sub>2</sub> N reactive plasmas. Journal of Nuclear Materials, 2013, 438, S1092-S1095.	2.7	3
103	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
104	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
105	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
106	Development of a Chemically Nonequilibrium Model on Decaying SF <sub>6</sub> Arc Plasmas. IEEE Transactions on Power Delivery, 2013, 28, 2623-2629.	4.3	22
107	Development of a thermally and chemically non-equilibrium model for decaying SF <sub>6</sub> arc plasmas. , 2013, , .		3
108	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

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109	Time Evolution in Radiation Intensities of C <sub>2</sub> and H Spectra in Ar/CH <sub>4</sub> /H <sub>2</sub> Pulse Modulated Induction Thermal Plasmas for Diamond Film Deposition. Journal of Physics: Conference Series, 2013, 441, 012017.	0.4	9
110	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
111	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
112	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
113	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
114	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
115	Computational simulation of reactive species production by methane-air DBD at high pressure and high temperature. Europhysics Letters, 2012, 97, 25001.	2.0	11
116	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
117	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
118	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
119	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
120	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
121	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
122	Plasma arc quenching efficiency of ablated vapor of polymer containing nitrogen atoms using inductively coupled thermal plasma technique. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2012, 180, 32-45.	0.4	5
123	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
124	Numerical simulation on dynamics of spallation particles ejected from polyamide materials during irradiation of arc thermal plasma. , 2011, , .		5
125	Development of a chemically non-equilibrium model on decaying SF <sub>6</sub> arc plasmas. , 2011, , .		6
126	Simulation of dynamics of carbon dust particles in the JT-60U tokamak. Journal of Nuclear Materials, 2011, 415, S1106-S1110.	2.7	13



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127	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
128	An Improved Local Thermal Equilibrium Model of DC Arc Plasma Torch. IEEE Transactions on Plasma Science, 2011, 39, 1974-1982.	1.3	25
129	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
130	Spallation Particle Ejection From Polymer Surface Irradiated by Thermal Plasmas. IEEE Transactions on Plasma Science, 2011, 39, 2776-2777.	1.3	10
131	Thermofluid Simulation of Arc Plasmas Confined by a Polymer Hollow Cylinder. IEEJ Transactions on Power and Energy, 2011, 131, 196-204.	0.2	4
132	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
133	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
134	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
135	Two-temperature non-chemical equilibrium analysis of Arâ€“CH4â€“O2 ICTP at reduced pressure. Thin Solid Films, 2010, 518, 3535-3540.	1.8	1
136	Nanoparticle synthesis using high-powered pulse-modulated induction thermal plasma. Journal Physics D: Applied Physics, 2010, 43, 265201.	2.8	28
137	Chemical Erosion of Diamond-Coated Graphite under Low-Energy Hydrogen Atom Irradiation. Plasma and Fusion Research, 2010, 5, 003-003.	0.7	2
138	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
139	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
140	Numerical simulation of thermal interaction between polymer and argon induction thermal plasma. Electronics and Communications in Japan, 2009, 92, 24-33.	0.5	0
141	Mathematical Modeling and Numerical Simulation of Splat Cooling in Plasma Spray Coatings. Journal of Thermal Spray Technology, 2009, 18, 965-974.	3.1	20
142	Modulated Induction Thermal Plasmas â€“ Fundamentals and Applications â€“. IEEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 465-475.	1.4	2
143	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
144	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

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145	Observation of non-chemical equilibrium effect on Ar+CO <sub>2</sub> +H <sub>2</sub> thermal plasma model by changing pressure. Thin Solid Films, 2009, 518, 943-951.	1.8	4
146	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
147	Plasma temperature decay due to polymer ablation by thermal plasma irradiation. , 2009, , .		0
148	Erosion and dust formation of graphite materials under low-energy and high-flux atomic hydrogen irradiation. Physica Scripta, 2009, T138, 014056.	2.5	5
149	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
150	Plasma-Quenching Efficiency of Ablated Vapor of Polymer Containing Nitrogen Atoms using Inductively Coupled Thermal Plasma Technique. IEJ Transactions on Power and Energy, 2009, 129, 461-468.	0.2	0
151	Numerical Modeling of Behavior of Dust Made of Different Materials in Plasmas. Contributions To Plasma Physics, 2008, 48, 295-299.	1.1	0
152	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
153	Thermodynamic and transport properties of CO <sub>2</sub> , CO <sub>2</sub> +O <sub>2</sub> , and CO <sub>2</sub> +H <sub>2</sub> 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
154	Recent progress in understanding the behavior of dust in fusion devices. Plasma Physics and Controlled Fusion, 2008, 50, 124054.	2.1	66
155	Influence of emissivity on behavior of metallic dust particles in plasmas. Physics of Plasmas, 2008, 15, 073704.	1.9	11
156	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
157	Dust in fusion plasmas: theory and modeling. AIP Conference Proceedings, 2008, , .	0.4	1
158	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
159	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
160	Spatial Distribution of $C_{\alpha}$ Spectra From Induction Thermal Plasmas With Polymer Powder Injection. IEEE Transactions on Plasma Science, 2008, 36, 1058-1059.	1.3	0
161	CO <sub>2</sub> and H <sub>2</sub> Gas Mixture Inclusion Effect on Shrinkage of Ar Induction Thermal Plasmas. IEJ Transactions on Power and Energy, 2008, 128, 479-485.	0.2	7
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