Yoshinori Takao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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papers1,002
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ext. citations1.9
avg, IF4.45
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#	Paper	IF	Citations
104	Optical and Electrical Characterization of Hydrogen-Plasma-Damaged Silicon Surface Structures and Its Impact on In-line Monitoring. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 08JD02	1.4	46
103	Modeling of ion-bombardment damage on Si surfaces for in-line analysis. <i>Thin Solid Films</i> , 2010 , 518, 3481-3486	2.2	41
102	Plasma-Induced Defect-Site Generation in Si Substrate and Its Impact on Performance Degradation in Scaled MOSFETs. <i>IEEE Electron Device Letters</i> , 2009 , 30, 1275-1277	4.4	36
101	Three-dimensional particle-in-cell simulation of a miniature plasma source for a microwave discharge ion thruster. <i>Plasma Sources Science and Technology</i> , 2014 , 23, 064004	3.5	35
100	Structural and electrical characterization of HBr/O2 plasma damage to Si substratea). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 041301	2.9	34
99	A miniature electrothermal thruster using microwave-excited plasmas: a numerical design consideration. <i>Plasma Sources Science and Technology</i> , 2006 , 15, 211-227	3.5	31
98	Neutral-depletion-induced axially asymmetric density in a helicon source and imparted thrust. <i>Applied Physics Letters</i> , 2016 , 108, 074103	3.4	28
97	A miniature electrothermal thruster using microwave-excited microplasmas: Thrust measurement and its comparison with numerical analysis. <i>Journal of Applied Physics</i> , 2007 , 101, 123307	2.5	27
96	Modifications of plasma density profile and thrust by neutral injection in a helicon plasma thruster. <i>Applied Physics Letters</i> , 2016 , 109, 194101	3.4	26
95	Two-dimensional particle-in-cell Monte Carlo simulation of a miniature inductively coupled plasma source. <i>Journal of Applied Physics</i> , 2010 , 108, 093309	2.5	25
94	Plasma chemical behaviour of reactants and reaction products during inductively coupled CF4plasma etching of SiO2. <i>Plasma Sources Science and Technology</i> , 2009 , 18, 045027	3.5	25
93	Effects of straggling of incident ions on plasma-induced damage creation in fi nEtype field-effect transistors. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 03DE02	1.4	24
92	Model for Bias Frequency Effects on Plasma-Damaged Layer Formation in Si Substrates. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 056203	1.4	24
91	Numerical validation of axial plasma momentum lost to a lateral wall induced by neutral depletion. <i>Physics of Plasmas</i> , 2015 , 22, 113509	2.1	20
90	Atomic-scale cellular model and profile simulation of Si etching: Formation of surface roughness and residue. <i>Thin Solid Films</i> , 2010 , 518, 3475-3480	2.2	20
89	Microplasma thruster for ultra-small satellites: Plasma chemical and aerodynamical aspects. <i>Pure and Applied Chemistry</i> , 2008 , 80, 2013-2023	2.1	20
88	Plasma Diagnostics and Thrust Performance Analysis of a Microwave-Excited Microplasma Thruster. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 8235-8240	1.4	20

(2018-2014)

87	Molecular dynamics simulations of silicon chloride ion incidence during Si etching in Cl-based plasmas. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 056201	1.4	18	
86	Numerical and experimental study of microwave-excited microplasma and micronozzle flow for a microplasma thruster. <i>Physics of Plasmas</i> , 2009 , 16, 083505	2.1	18	
85	Microwave-excited microplasma thruster with helium and hydrogen propellants. <i>Physics of Plasmas</i> , 2011 , 18, 063505	2.1	18	
84	Effect of capacitive coupling in a miniature inductively coupled plasma source. <i>Journal of Applied Physics</i> , 2012 , 112, 093306	2.5	18	
83	Surface roughening and rippling during plasma etching of silicon: Numerical investigations and a comparison with experiments. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2014 , 32, 031212	1.3	17	
82	Atomic-Scale Cellular Model and Profile Simulation of Si Etching: Analysis of Profile Anomalies and Microscopic Uniformity. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 08JE01	1.4	17	
81	Modeling of plasma-induced damage and its impacts on parameter variations in advanced electronic devices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 041303	2.9	17	
80	High-performance planar-type electron source based on a graphene-oxide-semiconductor structure. <i>Applied Physics Letters</i> , 2019 , 114, 213501	3.4	16	
79	Two modes of surface roughening during plasma etching of silicon: Role of ionized etch products. <i>Journal of Applied Physics</i> , 2014 , 116, 223302	2.5	15	
78	Effects of E IB drift on electron transport across the magnetic field in a miniature microwave discharge neutralizer. <i>Physics of Plasmas</i> , 2017 , 24, 064504	2.1	14	
77	Modeling and Simulation of Nanoscale Surface Rippling during Plasma Etching of Si under Oblique Ion Incidence. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 08HC01	1.4	14	
76	Numerical simulation of full-aperture-pair ion optics in a miniature ion thruster. <i>Physics of Plasmas</i> , 2018 , 25, 013524	2.1	13	
75	Microfabricated emitter array for an ionic liquid electrospray thruster. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 06GN18	1.4	13	
74	Molecular dynamics simulations of Si etching in Cl- and Br-based plasmas: Cl+ and Br+ ion incidence in the presence of Cl and Br neutrals. <i>Journal of Applied Physics</i> , 2015 , 118, 233304	2.5	13	
73	Microwave-excited microplasma thruster: a numerical and experimental study of the plasma generation and micronozzle flow. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 194005	3	13	
72	Numerical Analysis of a Miniature Microwave-discharge Ion Thruster Using Water as the Propellant. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2018 , 61, 152-159	0.8	13	
71	Effects of negative ions on discharge characteristics of water plasma source for a miniature microwave discharge ion thruster. <i>Physics of Plasmas</i> , 2019 , 26, 043508	2.1	11	
70	Effects of neutral distribution and external magnetic field on plasma momentum in electrodeless plasma thrusters. <i>Physics of Plasmas</i> , 2018 , 25, 023507	2.1	11	

69	Surface morphology evolution during plasma etching of silicon: roughening, smoothing and ripple formation. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 414001	3	11
68	Evaluation technique for plasma-induced SiOC dielectric damage by capacitanceNoltage hysteresis monitoring. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 06HB04	1.4	10
67	Threshold Voltage Instability Induced by Plasma Process Damage in Advanced Metal Dxide Bemiconductor Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 08JCC) 2 ·4	9
66	Electron extraction mechanisms of a micro-ECR neutralizer. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 07LD09	1.4	9
65	Assessment of Micropropulsion System Unifying Water Ion Thrusters and Water Resistojet Thrusters. <i>Journal of Spacecraft and Rockets</i> , 2019 , 56, 1400-1408	1.5	8
64	Comprehensive Modeling of Threshold Voltage Variability Induced by Plasma Damage in Advanced Metal Dxide Bemiconductor Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 04DA	18 ⁴	8
63	Microwave-sustained miniature plasmas for an ultra small thruster. <i>Thin Solid Films</i> , 2006 , 506-507, 592-	596	8
62	Investigation of Electron Extraction from a Microwave Discharge Neutralizer for a Miniature Ion Propulsion System. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2016 , 14, Pb_41-Pb_46	0.3	7
61	Thrust imparted by a stepped-diameter magnetic nozzle rf plasma thruster. <i>Applied Physics Letters</i> , 2018 , 113, 034101	3.4	7
60	A new aspect of plasma-induced physical damage in three-dimensional scaled structures Sidewall damage by stochastic straggling and sputtering 2014,		7
59	Atomistic simulations of plasma process-induced Si substrate damage - Effects of substrate bias-power frequency 2013 ,		7
58	Development of a momentum vector measurement instrument in steady-state plasmas. <i>AIP Advances</i> , 2018 , 8, 105117	1.5	7
57	Particle Simulations of Sheath Dynamics in Low-Pressure Capacitively Coupled Argon Plasma Discharges. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JC02	1.4	6
56	Model for Effects of RF Bias Frequency and Waveform on Si Damaged-Layer Formation during Plasma Etching. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JE04	1.4	6
55	Modeling and Simulation of Nanoscale Surface Rippling during Plasma Etching of Si under Oblique Ion Incidence. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 08HC01	1.4	6
54	Mechanism of Highly Efficient Electron Emission from a Graphene/Oxide/Semiconductor Structure. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2265-2273	4	5
53	Structural, mechanical, and electrical properties of cubic boron nitride thin films deposited by magnetically enhanced plasma ion plating method. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 03DBC) 1 ·4	5
52	Particle Simulations of Sheath Dynamics in Low-Pressure Capacitively Coupled Argon Plasma Discharges. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JC02	1.4	5

51	Advanced Contactless Analysis of Plasma-Induced Damage on Si by Temperature-Controlled Photoreflectance Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08KD03	1.4	5	
50	Development of small microwave discharge ion thruster. <i>Thin Solid Films</i> , 2006 , 506-507, 605-608	2.2	5	
49	Trade-Off Relationship between Si Recess and Defect Density Formed by Plasma-Induced Damage in Planar Metal Dxide Bemiconductor Field-Effect Transistors and the Optimization Methodology. Japanese Journal of Applied Physics, 2011, 50, 08KD04	1.4	5	
48	Analytic Model of Threshold Voltage Variation Induced by Plasma Charging Damage in High-kMetal®xideBemiconductor Field-Effect Transistor. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 10PG02	1.4	5	
47	Increased Thrust-to-Power Ratio of a Stepped-Diameter Helicon Plasma Thruster with Krypton Propellant. <i>Journal of Propulsion and Power</i> , 2020 , 36, 961-965	1.8	5	
46	Surface smoothing during plasma etching of Si in Cl2. <i>Applied Physics Letters</i> , 2016 , 109, 204101	3.4	5	
45	Electron extraction enhancement via the magnetic field in a miniature microwave discharge neutralizer. <i>Journal of Applied Physics</i> , 2019 , 126, 243302	2.5	5	
44	Low-power-consumption, high-current-density, and propellantless cathode using graphene-oxide-semiconductor structure array. <i>Acta Astronautica</i> , 2020 , 174, 48-54	2.9	5	
43	Numerical investigation of internal plasma currents in a magnetic nozzle. <i>Physics of Plasmas</i> , 2021 , 28, 093506	2.1	5	
42	Fabrication of a high-density emitter array for electrospray thrusters using field emitter array process. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SEEG04	1.4	4	
41	Low-magnetic-field enhancement of thrust imparted by a stepped-diameter and downstream-gas-injected rf plasma thruster. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 085014	3.5	4	
40	Investigation of Plasma Characteristics and Ion Beam Extraction for a Micro RF Ion Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Pb_13-Pb_18	0.3	4	
39	Advanced Contactless Analysis of Plasma-Induced Damage on Si by Temperature-Controlled Photoreflectance Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08KD03	1.4	4	
38	Origin of plasma-induced surface roughening and ripple formation during plasma etching: The crucial role of ion reflection. <i>Journal of Applied Physics</i> , 2018 , 124, 143301	2.5	4	
37	Microplasma thruster powered by X-band microwaves. Journal of Applied Physics, 2019, 125, 083301	2.5	3	
36	A Validation Study of a 3D PIC Model for a Miniature Microwave Discharge Ion Thruster 2014 ,		3	
35	Molecular Dynamics Analysis of the Formation of Surface Roughness during Si Etching in Chlorine-Based Plasmas. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08KB02	1.4	3	
34	PIC-MCC Simulations of Capacitive RF Discharges for Plasma Etching 2011 ,		3	

33	Three-Dimensional Atomic-Scale Cellular Model and Feature Profile Evolution during Si Etching in Chlorine-Based Plasmas: Analysis of Profile Anomalies and Surface Roughness. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JE06	1.4	3
32	A new prediction model for effects of plasma-induced damage on parameter variations in advanced LSIs 2011 ,		3
31	High-k MOSFET performance degradation by plasma process-induced charging damage Impacts on device parameter variation 2012 ,		3
30	Three-Dimensional Atomic-Scale Cellular Model and Feature Profile Evolution during Si Etching in Chlorine-Based Plasmas: Analysis of Profile Anomalies and Surface Roughness. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JE06	1.4	3
29	Numerical Investigation of Steady and Transient Ion Beam Extraction Mechanisms for Electrospray Thrusters. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2018 , 16, 110-115	0.3	3
28	Ripple formation on Si surfaces during plasma etching in Cl2. AIP Advances, 2018, 8, 055027	1.5	3
27	Silicon nanowire growth on Si and SiO2substrates by rf magnetron sputtering in Ar/H2. <i>Applied Physics Express</i> , 2015 , 8, 066201	2.4	2
26	Electron loss mechanisms in a miniature microwave discharge water neutralizer. <i>Physics of Plasmas</i> , 2020 , 27, 063505	2.1	2
25	Modeling the effects of plasma-induced physical damage on subthreshold leakage current in scaled MOSFETs 2010 ,		2
24	Trade-Off Relationship between Si Recess and Defect Density Formed by Plasma-Induced Damage in Planar Metal®xideBemiconductor Field-Effect Transistors and the Optimization Methodology. Japanese Journal of Applied Physics, 2011 , 50, 08KD04	1.4	2
23	Analytic Model of Threshold Voltage Variation Induced by Plasma Charging Damage in High-\$k\$ Metal Dxide Bemiconductor Field-Effect Transistor. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 10PG)2 ^{1.4}	2
22	Molecular Dynamics Analysis of the Formation of Surface Roughness during Si Etching in Chlorine-Based Plasmas. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08KB02	1.4	2
21	Commentary: On helicon thrusters: Will they ever fly?. Frontiers in Physics, 2020, 8,	3.9	2
20	A Preliminary Study on Radiation Shielding Using Martian Magnetic Anomalies. <i>Uchu Seibutsu Kagaku</i> , 2018 , 32, 1-5	1	2
19	Computational design of a high-efficiency accelerator grid for a miniature ion thruster by full-aperture ion optics simulations. <i>AIP Advances</i> , 2019 , 9, 035343	1.5	1
18	Investigation of Ion Beam Extraction Mechanism for Higher Thrust Density of Ion Thrusters. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pb_57-Pb_62	0.3	1
17	Random telegraph noise as a new measure of plasma-induced charging damage in MOSFETs 2014,		1
16	Effects of plasma-induced charging damage on random telegraph noise in metalbxideBemiconductor field-effect transistors with SiO2and high-kgate dielectrics. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 03DF02	1.4	1

LIST OF PUBLICATIONS

Fabrication of Electrospray Thrusters with a High-Density Emitter Array Utilizing Minimal-Fab System 2018, Uniform needle-emitter arrays for ionic liquid electrospray thrusters with precise thrust control. Japanese Journal of Applied Physics, 2021, 60, SCCL06 Fabrication of nano-capillary emitter arrays for ionic liquid electrospray thrusters. Japanese Journal	15	Comparative Study of Plasma-Charging Damage in High-\$k\$ Dielectric and pl Junction and Their Effects on Off-State Leakage Current of Metal Dxide Bemiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 08KD05	1.4	1
Uniform needle-emitter arrays for ionic liquid electrospray thrusters with precise thrust control. Japanese Journal of Applied Physics, 2021, 60, SCCL06 1.4 Fabrication of nano-capillary emitter arrays for ionic liquid electrospray thrusters. Japanese Journal of Applied Physics, 2021, 60, SCCCF07 Optimization of Plasma Production with Impedance Analysis for a Micro RF Ion Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pb_63-Pb_68 Micro-photoreflectance spectroscopy for microscale monitoring of plasma-induced physical damage on Si substrate. Japanese Journal of Applied Physics, 2014, 53, 03DF01 Plasma Etch Challenges for Nanoscale ULSI Device Fabrication: Modeling and Simulation of Surface Roughening and Rippling during Plasma Etching of Si. Hyomen Kagaku, 2013, 34, 528-534 Model for Effects of RF Bias Frequency and Waveform on Si Damaged-Layer Formation during Plasma Etching. Japanese Journal of Applied Physics, 2011, 50, 08JE04 Design of High Efficiency Grid System for Water Propellant Miniature Ion Thrusters. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2020, 18, 412-416 Development of Microplasma Thruster. Journal of High Temperature Society, 2005, 31, 283-290 Numerical Investigation of Neutral-Injection Effect on an Electrodeless Plasma Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 105-109 Numerical Investigation of Ion Beam Extraction Mechanism for Electrospray Thruster. The Proceedings of Conference of Kanto Branch, 2017, 2017.23, 816 Numerical Simulation of a Microwave-Excited Microplasma Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Pb_135-Pb_140 Experimental study on the performance characteristics of a miniature microwave discharge	14			1
Fabrication of nano-capillary emitter arrays for ionic liquid electrospray thrusters. Japanese Journal of Applied Physics, 2021, 60, SCCF07 Optimization of Plasma Production with Impedance Analysis for a Micro RF Ion Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pb_63-Pb_68 Micro-photoreflectance spectroscopy for microscale monitoring of plasma-induced physical damage on Si substrate. Japanese Journal of Applied Physics, 2014, 53, 03DF01 Plasma Etch Challenges for Nanoscale ULSI Device Fabrication: Modeling and Simulation of Surface Roughening and Rippling during Plasma Etching of Si. Hyomen Kagaku, 2013, 34, 528-534 Model for Effects of RF Bias Frequency and Waveform on Si Damaged-Layer Formation during Plasma Etching. Japanese Journal of Applied Physics, 2011, 50, 08JE04 Design of High Efficiency Grid System for Water Propellant Miniature Ion Thrusters. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2020, 18, 412-416 Development of Microplasma Thruster. Journal of High Temperature Society, 2005, 31, 283-290 Numerical Investigation of Neutral-Injection Effect on an Electrodeless Plasma Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 105-109 Numerical Investigation of Ion Beam Extraction Mechanism for Electrospray Thruster. The Proceedings of Conference of Kanto Branch, 2017, 2017.23, 816 Numerical Simulation of a Microwave-Excited Microplasma Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Pb_135-Pb_140 Experimental study on the performance characteristics of a miniature microwave discharge	13			1
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damage on Si substrate. Japanese Journal of Applied Physics, 2014, 53, 03DF01 Plasma Etch Challenges for Nanoscale ULSI Device Fabrication: Modeling and Simulation of Surface Roughening and Rippling during Plasma Etching of Si. Hyomen Kagaku, 2013, 34, 528-534 Model for Effects of RF Bias Frequency and Waveform on Si Damaged-Layer Formation during Plasma Etching. Japanese Journal of Applied Physics, 2011, 50, 08JE04 Design of High Efficiency Grid System for Water Propellant Miniature Ion Thrusters. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2020, 18, 412-416 Development of Microplasma Thruster. Journal of High Temperature Society, 2005, 31, 283-290 Numerical Investigation of Neutral-Injection Effect on an Electrodeless Plasma Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 105-109 Numerical Investigation of Ion Beam Extraction Mechanism for Electrospray Thruster. The Proceedings of Conference of Kanto Branch, 2017, 2017.23, 816 Numerical Simulation of a Microwave-Excited Microplasma Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Pb_135-Pb_140 Experimental study on the performance characteristics of a miniature microwave discharge	10	Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan,	0.3	
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