## **Giichiro Uchida**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11861688/publications.pdf Version: 2024-02-01



Сисниро Ценира

#	Article	IF	CITATIONS
1	Morphological control of nanostructured Ge films in high Ar-gas-pressure plasma sputtering process for Li ion batteries. Japanese Journal of Applied Physics, 2022, 61, SA1002.	1.5	4
2	Effects of surrounding gas on plasma-induced downward liquid flow. Japanese Journal of Applied Physics, 2020, 59, SHHF02.	1.5	7
3	å\$気圧低æ,©ãf—ãf©ã,ºãfžã,,ã,§ãffãf^ç§å°"溶液ã«ã,ˆã,‹ãŒã,"ç″èfžæ®ºå,•ã«é–¢ã₯ã,‹ç"ç©¶.	Journæløf Sn	nartoProcessi
4	High-rate deposition of silicon nitride thin films using plasma-assisted reactive sputter deposition. Thin Solid Films, 2019, 685, 306-311.	1.8	5
5	Decomposition and oxidation of methionine and tryptophan following irradiation with a nonequilibrium plasma jet and applications for killing cancer cells. Scientific Reports, 2019, 9, 6625.	3.3	13
6	Low-temperature formation of high-mobility a-InGaZnOx films using plasma-enhanced reactive processes. Japanese Journal of Applied Physics, 2019, 58, 090605.	1.5	5
7	Influence of deposition condition on electrical properties of a-IGZO films deposited by plasma-enhanced reactive sputtering. Journal of Alloys and Compounds, 2019, 772, 642-649.	5.5	18
8	Effects of post-deposition plasma treatments on stability of amorphous InGaZnO <i><sub>x</sub></i> thin-film transistors prepared with plasma-assisted reactive magnetron sputtering. Japanese Journal of Applied Physics, 2019, 58, SAAC03.	1.5	5
9	Fabrication of high-performance InGaZnOx thin film transistors based on control of oxidation using a low-temperature plasma. Applied Physics Letters, 2018, 112, .	3.3	18
10	Selective production of reactive oxygen and nitrogen species in the plasma-treated water by using a nonthermal high-frequency plasma jet. Japanese Journal of Applied Physics, 2018, 57, 0102B4.	1.5	22
11	Effect of a plasma-activated medium produced by direct irradiation on cancer cell killing. Japanese Journal of Applied Physics, 2018, 57, 096201.	1.5	8
12	Plasma-enhanced reactive linear sputtering source for formation of silicon-based thin films. Review of Scientific Instruments, 2018, 89, 083902.	1.3	3
13	Control of reactive oxygen and nitrogen species production in liquid by nonthermal plasma jet with controlled surrounding gas. Japanese Journal of Applied Physics, 2017, 56, 01AC06.	1.5	43
14	Development of a non-equilibrium 60 MHz plasma jet with a long discharge plume. Journal of Applied Physics, 2017, 122, .	2.5	16
15	Influence of voltage pulse width on the discharge characteristics in an atmospheric dielectric-barrier-discharge plasma jet. Japanese Journal of Applied Physics, 2016, 55, 01AH03.	1.5	14
16	Effects of nonthermal plasma jet irradiation on the selective production of H2O2 and NO2â^' in liquid water. Journal of Applied Physics, 2016, 120, .	2.5	52
17	Two-dimensional concentration distribution of reactive oxygen species transported through a tissue phantom by atmospheric-pressure plasma-jet irradiation. Applied Physics Express, 2016, 9, 076202.	2.4	41
18	Effects of irradiation distance on supply of reactive oxygen species to the bottom of a Petri dish filled with liquid by an atmospheric O2/He plasma jet. Journal of Applied Physics, 2016, 119, .	2.5	36

#	Article	IF	CITATIONS
19	Effects of Working Pressure on the Physical Properties of a-InGaZnO <sub>&lt;italic&gt;x&lt;/italic&gt;</sub> Films Formed Using Inductively Coupled Plasma-Enhanced Reactive Sputtering Deposition. IEEE Transactions on Plasma Science, 2016, 44, 3099-3106.	1.3	9
20	Process controllability of inductively coupled plasma-enhanced reactive sputter deposition for the fabrication of amorphous InGaZnO <sub>x</sub> channel thin-film transistors. Japanese Journal of Applied Physics, 2016, 55, 01AA18.	1.5	10
21	Low-temperature formation of amorphous InGaZnO <i><sub>x</sub></i> films with inductively coupled plasma-enhanced reactive sputter deposition. Japanese Journal of Applied Physics, 2015, 54, 06GC02.	1.5	14
22	Effects of gas flow on oxidation reaction in liquid induced by He/O2 plasma-jet irradiation. Journal of Applied Physics, 2015, 118, .	2.5	39
23	Dynamic Properties of Helium Atmospheric Dielectric-Barrier-Discharge Plasma Jet. Journal of Nanoscience and Nanotechnology, 2015, 15, 2324-2329.	0.9	2
24	Deposition of Germanium Crystalline Nanoparticle Composite Films by Using Reactive Dusty Plasma Process and their Application for Quantum-Dot Solar Cells. Journal of Smart Processing, 2015, 4, 6-11.	0.1	0
25	Influence of He Gas Flow Rate on Optical Emission Characteristics in Atmospheric Dielectric-Barrier-Discharge Plasma Jet. IEEE Transactions on Plasma Science, 2015, 43, 737-744.	1.3	26
26	Atmospheric-Pressure Gas-Breakdown Characteristics with a Radio-Frequency Voltage. Journal of Nanoscience and Nanotechnology, 2015, 15, 2192-2196.	0.9	13
27	Effects of discharge voltage waveform on the discharge characteristics in a helium atmospheric plasma jet. Journal of Applied Physics, 2015, 117, .	2.5	28
28	Photovoltaic application of Si nanoparticles fabricated by multihollow plasma discharge CVD: Dye and Si co-sensitized solar cells. Japanese Journal of Applied Physics, 2015, 54, 01AD02.	1.5	4
29	Gas Flow Rate Dependence of the Discharge Characteristics of a Plasma Jet Impinging Onto the Liquid Surface. IEEE Transactions on Plasma Science, 2015, 43, 4081-4087.	1.3	13
30	Analysis of Dynamic Discharge Characteristics of Plasma Jet Based on Voltage and Current Measurements Using a Metal Plate. IEEE Transactions on Plasma Science, 2015, 43, 3821-3826.	1.3	10
31	Deposition of Carbon Films on PMMA Using H-assisted Plasma CVD. , 2014, , .		0
32	Effects of driving voltage frequency on the discharge characteristics of atmospheric dielectric-barrier-discharge plasma jet. Japanese Journal of Applied Physics, 2014, 53, 11RA08.	1,5	18
33	Study on the Crystal Growth Mechanism of ZnO Films Fabricated Via Nitrogen Mediated Crystallization , 2014, , .		0
34	Performance dependence of Si quantum dot-sensitized solar cells on counter electrode. Japanese Journal of Applied Physics, 2014, 53, 05FZ01.	1.5	4
35	SiC Nanoparticle Composite Anode for Li-Ion Batteries. Materials Research Society Symposia Proceedings, 2014, 1678, 7.	0.1	7
36	Analysis on the photovoltaic property of Si quantum dot-sensitized solar cells. International Journal of Precision Engineering and Manufacturing, 2014, 15, 339-343.	2.2	5

#	Article	IF	CITATIONS
37	Dust Hour Glass in a Capacitive RF Discharge. IEEE Transactions on Plasma Science, 2014, 42, 2672-2673.	1.3	2
38	Visualization of the Distribution of Oxidizing Substances in an Atmospheric Pressure Plasma Jet. IEEE Transactions on Plasma Science, 2014, 42, 2482-2483.	1.3	30
39	Theory for correlation between plasma fluctuation and fluctuation of nanoparticle growth in reactive plasmas. Japanese Journal of Applied Physics, 2014, 53, 010201.	1.5	9
40	Performance enhancement of dye and Si quantum dot hybrid nanostructured solar cell with TiO <sub>2</sub> barrier. Transactions of the Materials Research Society of Japan, 2014, 39, 321-324.	0.2	0
41	Effects of H2 Gas Addition on Structure of Ge Nanoparticle Films Deposited by High-Pressure RF Magnetron Sputtering Method. , 2014, , .		0
42	Combinatorial Plasma CVD of Si Nanoparticle Composite Films for Band Gap Control. , 2014, , .		0
43	Transport control of dust particles via the electrical asymmetry effect: experiment, simulation and modelling. Journal Physics D: Applied Physics, 2013, 46, 245202.	2.8	16
44	Analysis on the effect of polysulfide electrolyte composition for higher performance of Si quantum dot-sensitized solar cells. Electrochimica Acta, 2013, 95, 43-47.	5.2	31
45	Characteristics of photocurrent generation in the near-ultraviolet region in Si quantum-dot sensitized solar cells. Thin Solid Films, 2013, 544, 93-98.	1.8	10
46	The improvement on the performance of quantum dot-sensitized solar cells with functionalized Si. Thin Solid Films, 2013, 546, 284-288.	1.8	6
47	Discharge power dependence of carbon dust flux in a divertor simulator. Journal of Nuclear Materials, 2013, 438, S788-S791.	2.7	5
48	The reduction of charge recombination and performance enhancement by the surface modification of Si quantum dot-sensitized solar cell. Electrochimica Acta, 2013, 87, 213-217.	5.2	18
49	Effects of DC substrate bias voltage on dust flux in the Large Helical Device. Journal of Nuclear Materials, 2013, 438, S727-S730.	2.7	5
50	Dust particle formation due to interaction between graphite and helicon deuterium plasmas. Fusion Engineering and Design, 2013, 88, 28-32.	1.9	10
51	Correlation between Volume Fraction of Silicon Clusters in Amorphous Silicon Films and Optical Emission Properties of Si <sup>*</sup> and SiH <sup>*</sup> . Japanese Journal of Applied Physics, 2013, 52, 11NA07.	1.5	4
52	Improvement of Si Adhesion and Reduction of Electron Recombination for Si Quantum Dot-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 01AD05.	1.5	12
53	Flux Control of Carbon Nanoparticles Generated due to Interactions between Hydrogen Plasmas and Graphite Using DC-Biased Substrates. Japanese Journal of Applied Physics, 2013, 52, 11NA08.	1.5	2
54	Characteristics of Crystalline Silicon/Si Quantum Dot/Poly(3,4-ethylenedioxythiophene) Hybrid Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 11NA05.	1.5	1

#	Article	IF	CITATIONS
55	Effects of Nitrogen on Crystal Growth of Sputter-Deposited ZnO Films for Transparent Conducting Oxide. Japanese Journal of Applied Physics, 2013, 52, 11NB03.	1.5	14
56	Epitaxial Growth of ZnInON Films with Tunable Band Gap from 1.7 to 3.3 eV on ZnO Templates. Japanese Journal of Applied Physics, 2013, 52, 11NM06.	1.5	16
57	Study on the Fabrication of Paint-Type Si Quantum Dot-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 10MB07.	1.5	7
58	Effects of Hydrogen Dilution on ZnO Thin Films Fabricated via Nitrogen-Mediated Crystallization. Japanese Journal of Applied Physics, 2013, 52, 01AC08.	1.5	9
59	The Optical Analysis and Application of Size-controllable Si Quantum Dots Fabricated by Multi-hollow Discharge Plasma Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2012, 1426, 313-318.	0.1	Ο
60	Characteristics of stable a-Si:H Schottoky cells fabricated by suppressing cluster deposition. Materials Research Society Symposia Proceedings, 2012, 1426, 377-382.	0.1	1
61	Combinatorial Deposition of Microcrystalline Silicon Films Using Multihollow Discharge Plasma Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2012, 51, 01AD02.	1.5	3
62	Effect of Nitridation of Si Nanoparticles on the Performance of Quantum-Dot Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 01AD01.	1.5	7
63	Deposition of Cluster-Free B-doped Hydrogenated Amorphous Silicon Films Using SiH\$_{4}\$+B\$_{10}\$H\$_{14}\$ Multi-Hollow Discharge Plasma Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2012, 51, 01AD03.	1.5	2
64	In-situ Measurements of Cluster Volume Fraction in Silicon Thin Films Using Quartz Crystal Microbalances. Materials Research Society Symposia Proceedings, 2012, 1426, 307-311.	0.1	7
65	Discharge Characteristics of Plasma Display Panels with SrCaO Protective Layer Manufactured Using &IdquoAll-in-Vacuum" Process. Materials Transactions, 2012, 53, 440-445.	1.2	0
66	Effects of crystalline nanoparticle incorporation on growth, structure, and properties of microcrystalline silicon films deposited by plasma chemical vapor deposition. Thin Solid Films, 2012, 523, 29-33.	1.8	5
67	Control of radial density profile of nano-particles produced in reactive plasma by amplitude modulation of radio frequency discharge voltage. Thin Solid Films, 2012, 523, 76-79.	1.8	8
68	Sheath-to-sheath transport of dust particles in a capacitively coupled discharge. Plasma Sources Science and Technology, 2012, 21, 032001.	3.1	8
69	High quality epitaxial ZnO films grown on solid-phase crystallized buffer layers. Thin Solid Films, 2012, 520, 4674-4677.	1.8	28
70	ZnO:Al Thin Films with Buffer Layers Fabricated via Nitrogen Mediated Crystallization: Effects of N <sub>2</sub> /Ar Gas Flow Rate Ratio. Transactions of the Materials Research Society of Japan, 2012, 37, 165-168.	0.2	3
71	Effect of Nitridation of Si Nanoparticles on the Performance of Quantum-Dot Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 01AD01.	1.5	18
72	Impacts of Amplitude Modulation of RF Discharge Voltage on the Growth of Nanoparticles in Reactive Plasmas. Applied Physics Express, 2011, 4, 105001.	2.4	21

#	Article	IF	CITATIONS
73	Surface nitridation of silicon nanoâ€particles using double multiâ€hollow discharge plasma CVD. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3017-3020.	0.8	26
74	Hybrid sensitized solar cells using Si nanoparticles and ruthenium dye. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3021-3024.	0.8	7
75	Deposition of clusterâ€free Pâ€doped aâ€5i:H films using SiH <sub>4</sub> +PH <sub>3</sub> multiâ€hollow discharge plasma CVD. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3013-3016.	0.8	2
76	Comparison between silicon thin films with and without incorporating crystalline silicon nanoparticles into the film. Thin Solid Films, 2011, 519, 6896-6898.	1.8	5
77	Nano-factories in plasma: present status and outlook. Journal Physics D: Applied Physics, 2011, 44, 174038.	2.8	40
78	Highly Conducting and Very Thin ZnO:Al Films with ZnO Buffer Layer Fabricated by Solid Phase Crystallization from Amorphous Phase. Applied Physics Express, 2011, 4, 011101.	2.4	61
79	Quantum dot-sensitized solar cells using Si nanoparticles. Transactions of the Materials Research Society of Japan, 2010, 35, 597-599.	0.2	11
80	Effects of Ar addition on breakdown voltage in a Si(CH <inf>3</inf> ) <inf>2</inf> (OCH <inf>3</inf> ) <inf>2</inf> RF discharge. , 2010, , .		0
81	Analysis of transient electron energy in a micro dielectric barrier discharge for a high performance plasma display panel. Journal of Applied Physics, 2010, 107, 023305.	2.5	11
82	Deposition profiles of microcrystalline silicon films using multi-hollow discharge plasma CVD. , 2010, , .		0
83	Effect of high Xe-concentration in a plasma display panel with a SrCaO cold cathode. Journal of Applied Physics, 2010, 107, 103311.	2.5	14
84	Photoluminescence of Si nanoparticles synthesized using multi-hollow discharge plasma CVD. , 2010, ,		1
85	Cluster-free B-doped a-Si:H films deposited using SiH <inf>4</inf> + B <inf>10</inf> H <inf>14</inf> multi-hollow discharges. , 2010, , .		Ο
86	Keynote speech I: Fluctuation control for plasma nanotechnologies. , 2010, , .		0
87	Generation of two-dimensional dust vortex flows in a direct current discharge plasma. Physics of Plasmas, 2009, 16, 053707.	1.9	19
88	Liquid-crystal phase transition by electron shower in a direct current complex plasma. Physics of Plasmas, 2009, 16, .	1.9	3
89	Characteristics of a micro dielectric barrier discharge ignited by a cold cathode with high ion-induced secondary electron emission for plasma display panel. Journal of Applied Physics, 2009, 106, 093301.	2.5	16
90	Influence of gas pressure and applied voltage on Xe excimer radiation from a micro dielectric barrier discharge for plasma display panel. Journal of Applied Physics, 2009, 106, 073304.	2.5	4

#	Article	IF	CITATIONS
91	Pâ€149: Analysis of Optical Emission Spectra from ACâ€PDP Operated at Lower Voltage. Digest of Technical Papers SID International Symposium, 2008, 39, 1762-1765.	0.3	3
92	Fine particle removal by a negatively-charged fine particle collector in silane plasma. Thin Solid Films, 2004, 457, 285-291.	1.8	19
93	Dynamics of fine particles in magnetized plasmas. Physics of Plasmas, 2001, 8, 1786-1790.	1.9	176
94	Nanostructure Control of Si and Ge Quantum Dots Based Solar Cells Using Plasma Processes. Materials Science Forum, 0, 783-786, 2022-2027.	0.3	2