

Masaharu Shiratani

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.

301
papers

4,267
citations

34
h-index

51
g-index

342
ext. papers

4,936
ext. citations

2.4
avg, IF

5.6
L-index

#	Paper	IF	Citations
301	Surface reaction probabilities and kinetics of H, SiH ₃ , Si ₂ H ₅ , CH ₃ , and C ₂ H ₅ during deposition of a-Si:H and a-C:H from H ₂ , SiH ₄ , and CH ₄ discharges. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998 , 16, 278-289	2.9	200
300	Biogenic reductive preparation of magnetic inverse spinel iron oxide nanoparticles for the adsorption removal of heavy metals. <i>Chemical Engineering Journal</i> , 2017 , 307, 74-84	14.7	179
299	Plasma agriculture: A rapidly emerging field. <i>Plasma Processes and Polymers</i> , 2018 , 15, 1700174	3.4	125
298	Current status and future prospects of agricultural applications using atmospheric-pressure plasma technologies. <i>Plasma Processes and Polymers</i> , 2018 , 15, 1700073	3.4	114
297	Simultaneous in situ measurements of properties of particulates in rf silane plasmas using a polarization-sensitive laser-light-scattering method. <i>Journal of Applied Physics</i> , 1996 , 79, 104-109	2.5	84
296	Review of pulmonary toxicity of indium compounds to animals and humans. <i>Thin Solid Films</i> , 2010 , 518, 2934-2936	2.2	78
295	Effects of Gas Temperature Gradient, Pulse Discharge Modulation, and Hydrogen Dilution on Particle Growth in Silane RF Discharges. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 287-293	1.4	69
294	In situ observation of nucleation and subsequent growth of clusters in silane radio frequency discharges. <i>Applied Physics Letters</i> , 2000 , 77, 196-198	3.4	66
293	Growth processes of particles in high frequency silane plasmas. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 540-545	2.9	66
292	Plasma induced long-term growth enhancement of <i>Raphanus sativus</i> L. using combinatorial atmospheric air dielectric barrier discharge plasmas. <i>Current Applied Physics</i> , 2014 , 14, S149-S153	2.6	64
291	Simple method of improving harvest by nonthermal air plasma irradiation of seeds of <i>Arabidopsis thaliana</i> (L.). <i>Applied Physics Express</i> , 2016 , 9, 016201	2.4	57
290	Particle Growth Kinetics in Silane RF Discharges. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 4542-4549	4.4	56
289	Growth Enhancement of Radish Sprouts Induced by Low Pressure O ₂ Radio Frequency Discharge Plasma Irradiation. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AE01	1.4	55
288	Highly Conducting and Very Thin ZnO:Al Films with ZnO Buffer Layer Fabricated by Solid Phase Crystallization from Amorphous Phase. <i>Applied Physics Express</i> , 2011 , 4, 011101	2.4	52
287	Plasma Agriculture from Laboratory to Farm: A Review. <i>Processes</i> , 2020 , 8, 1002	2.9	52
286	Mechanism and comparison of needle-type non-thermal direct and indirect atmospheric pressure plasma jets on the degradation of dyes. <i>Scientific Reports</i> , 2016 , 6, 34419	4.9	49
285	Influence of ionic liquid and ionic salt on protein against the reactive species generated using dielectric barrier discharge plasma. <i>Scientific Reports</i> , 2015 , 5, 17781	4.9	49

284	Highly Stable a-Si:H Films Deposited by Using Multi-Hollow Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1430-L1432	1.4	48
283	Contribution of short lifetime radicals to the growth of particles in SiH ₄ high frequency discharges and the effects of particles on deposited films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 995-1001	2.9	47
282	Effects of plasma irradiation using various feeding gases on growth of <i>Raphanus sativus</i> L. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 605, 129-40	4.1	44
281	Single step method to deposit Si quantum dot films using H ₂ +SiH ₄ VHF discharges and electron mobility in a Si quantum dot solar cell. <i>Surface and Coatings Technology</i> , 2007 , 201, 5468-5471	4.4	44
280	Detection of particles in rf silane plasmas using photoemission method. <i>Journal of Applied Physics</i> , 1996 , 80, 3202-3207	2.5	44
279	Cluster-Suppressed Plasma Chemical Vapor Deposition Method for High Quality Hydrogenated Amorphous Silicon Films. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L168-L170	1.4	43
278	Effects of nonthermal plasma jet irradiation on the selective production of H ₂ O ₂ and NO ₂ in liquid water. <i>Journal of Applied Physics</i> , 2016 , 120, 203302	2.5	43
277	Growth Control of Dry Yeast Using Scalable Atmospheric-Pressure Dielectric Barrier Discharge Plasma Irradiation. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 11PJ02	1.4	42
276	Surface Reaction Kinetics of CH ₃ in CH ₄ RF Discharge Studied by Time-Resolved Threshold Ionization Mass Spectrometry. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 4752-4755	1.4	39
275	Growth Kinetics and Behavior of Dust Particles in Silane Plasmas. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 3074-3080	1.4	39
274	Improving the performance of quantum dot sensitized solar cells through CdNiS quantum dots with reduced recombination and enhanced electron lifetime. <i>Dalton Transactions</i> , 2016 , 45, 8447-57	4.3	38
273	Fabrication of Nanoparticle Composite Porous Films Having Ultralow Dielectric Constant. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1509-L1511	1.4	37
272	Correlation between volume fraction of clusters incorporated into a-Si:H films and hydrogen content associated with Si-H ₂ bonds in the films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 1536-1539	2.9	37
271	Two-dimensional concentration distribution of reactive oxygen species transported through a tissue phantom by atmospheric-pressure plasma-jet irradiation. <i>Applied Physics Express</i> , 2016 , 9, 076202	2.4	37
270	Roles of SiH ₃ and SiH ₂ Radicals in Particle Growth in rf Silane Plasmas. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 4985-4988	1.4	36
269	Antioxidative activity and growth regulation of Brassicaceae induced by oxygen radical irradiation. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 06GD01	1.4	34
268	High rate deposition of highly stable a-Si:H films using multi-hollow discharges for thin films solar cells. <i>Surface and Coatings Technology</i> , 2010 , 205, S241-S245	4.4	34
267	Effects of gas flow on oxidation reaction in liquid induced by He/O ₂ plasma-jet irradiation. <i>Journal of Applied Physics</i> , 2015 , 118, 043301	2.5	33

266	In situ polarization-sensitive laser-light-scattering method for simultaneous measurements of two-dimensional spatial size and density distributions of particles in plasmas. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 603-607	2.9	33
265	In Situ Observation of Particle Behavior in rf Silane Plasmas. <i>Japanese Journal of Applied Physics</i> , 1991 , 30, 1887-1892	1.4	33
264	Variation in structure of proteins by adjusting reactive oxygen and nitrogen species generated from dielectric barrier discharge jet. <i>Scientific Reports</i> , 2016 , 6, 35883	4.9	32
263	Nano-factories in plasma: present status and outlook. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174038		31
262	In situ simple method for measuring size and density of nanoparticles in reactive plasmas. <i>Journal of Applied Physics</i> , 2006 , 99, 083302	2.5	30
261	Growth of particles in cluster-size range in low pressure and low power SiH ₄ rf discharges. <i>Journal of Applied Physics</i> , 1999 , 86, 3543-3549	2.5	30
260	Development of Photon-Counting Laser-Light-Scattering Method for Detection of Nano-Particles Formed in CVD Plasmas.. <i>The Review of Laser Engineering</i> , 1998 , 26, 449-452	0	30
259	Polymer counter electrode of poly(3,4-ethylenedioxythiophene):Poly(4-styrenesulfonate) containing TiO ₂ nano-particles for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 307, 25-30	8.9	29
258	Analysis on the effect of polysulfide electrolyte composition for higher performance of Si quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 95, 43-47	6.7	29
257	Study on growth processes of particles in germane radio frequency discharges using laser light scattering and scanning electron microscopic methods. <i>Journal of Applied Physics</i> , 1998 , 83, 5665-5669	2.5	29
256	Effects of Gas Flow on Particle Growth in Silane RF Discharges. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 4556-4560	1.4	29
255	Impact of Gamma rays and DBD plasma treatments on wastewater treatment. <i>Scientific Reports</i> , 2018 , 8, 2926	4.9	27
254	Effects of irradiation distance on supply of reactive oxygen species to the bottom of a Petri dish filled with liquid by an atmospheric O ₂ /He plasma jet. <i>Journal of Applied Physics</i> , 2016 , 119, 173301	2.5	26
253	Plant Growth Enhancement of Seeds Immersed in Plasma Activated Water. <i>MRS Advances</i> , 2017 , 2, 995-1000		25
252	Plasma surface treatment of polymers with inductivity-coupled RF plasmas driven by low-inductance antenna units. <i>Thin Solid Films</i> , 2009 , 518, 1006-1011	2.2	25
251	Production of crystalline Si nano-clusters using pulsed H ₂ +SiH ₄ VHF discharges. <i>Thin Solid Films</i> , 2006 , 506-507, 288-291	2.2	25
250	Detection of Negative Ions in a Helium-Silane RF Plasma. <i>Japanese Journal of Applied Physics</i> , 1992 , 31, L1791-L1793	1.4	25
249	Visualization of the Distribution of Oxidizing Substances in an Atmospheric Pressure Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 2482-2483	1.3	24

248	High quality epitaxial ZnO films grown on solid-phase crystallized buffer layers. <i>Thin Solid Films</i> , 2012 , 520, 4674-4677	2.2	24
247	Surface nitridation of silicon nano-particles using double multi-hollow discharge plasma CVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 3017-3020		23
246	Characterization of Dust Particles Ranging in Size from 1 nm to 10 μm Collected in the LHD. <i>Plasma and Fusion Research</i> , 2009 , 4, 034-034	0.5	23
245	Transport of nano-particles in capacitively coupled rf discharges without and with amplitude modulation of discharge voltage. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2267-2271	3	23
244	X-Ray photoelectron spectroscopy analysis of plasma-polymer interactions for development of low-damage plasma processing of soft materials. <i>Thin Solid Films</i> , 2010 , 518, 6492-6495	2.2	22
243	Reduced recombination with an optimized barrier layer on TiO ₂ in PbS/CdS core shell quantum dot sensitized solar cells. <i>New Journal of Chemistry</i> , 2016 , 40, 3423-3431	3.6	21
242	The changes in particle charge distribution during rapid growth of particles in the plasma reactor. <i>Journal of Colloid and Interface Science</i> , 2003 , 257, 195-207	9.3	21
241	Plasma-enhanced metal organic chemical vapor deposition of high purity copper thin films using plasma reactor with the H atom source. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 726-730	2.9	21
240	Investigation of Particulate Growth Processes in RF Silane Plasmas Using Light Absorption and Scanning Electron Microscopic Methods. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, 4198-4201	1.4	21
239	Electron Field Emission from Self-Organized Micro-Emitters of sp ³ -Bonded 5H Boron Nitride with Very High Current Density at Low Electric Field. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5182-5184	3.4	20
238	Nucleation and subsequent growth of clusters in reactive plasmas. <i>Plasma Sources Science and Technology</i> , 2002 , 11, A229-A233	3.5	20
237	Dielectric barrier discharge plasma treatment-induced changes in sunflower seed germination, phytohormone balance, and seedling growth. <i>Applied Physics Express</i> , 2019 , 12, 126003	2.4	19
236	Sterilization characteristics of the surfaces of agricultural products using active oxygen species generated by atmospheric plasma and UV light. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FR03	1.4	19
235	A study on the time evolution of surface loss probability on hydrogenated amorphous silicon films in rf discharges using infrared diode-laser absorption spectroscopy. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 776-780	3	19
234	Enhanced light harvesting and charge recombination control with TiO ₂ /PbCdS/CdS based quantum dot-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 788, 131-136	4.1	18
233	The reduction of charge recombination and performance enhancement by the surface modification of Si quantum dot-sensitized solar cell. <i>Electrochimica Acta</i> , 2013 , 87, 213-217	6.7	18
232	Growth Enhancement of Radish Sprouts Induced by Low Pressure O ₂ Radio Frequency Discharge Plasma Irradiation. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AE01	1.4	18
231	Relationship between cold plasma treatment-induced changes in radish seed germination and phytohormone balance. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SH1001	1.4	18

230	The blocking effect of charge recombination by sputtered and acid-treated ZnO thin film in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 248, 50-54	4.7	17
229	Effects of photoirradiation in UV and VUV regions during plasma exposure to polymers. <i>Thin Solid Films</i> , 2011 , 519, 6810-6814	2.2	17
228	Mechanism of Cu deposition from Cu(EDMDD) ₂ using H-assisted plasma CVD. <i>Thin Solid Films</i> , 2006 , 506-507, 197-201	2.2	17
227	Cluster-suppressed plasma CVD for deposition of high quality a-Si:H films. <i>Thin Solid Films</i> , 2003 , 427, 1-5	2.2	17
226	Highly crystalline 5H-polytype of sp ³ -bonded boron nitride prepared by plasma-packets-assisted pulsed-laser deposition: An ultraviolet light emitter at 225 nm. <i>Applied Physics Letters</i> , 2002 , 81, 4547-4549	3.4	17
225	X-ray photoelectron spectroscopy for analysis of plasma-polymer interactions in Ar plasmas sustained via RF inductive coupling with low-inductance antenna units. <i>Thin Solid Films</i> , 2010 , 518, 3555-3560	3.2	16
224	Rapid transport of nano-particles having a fractional elementary charge on average in capacitively-coupled rf discharges by amplitude-modulating discharge voltage. <i>Faraday Discussions</i> , 2008 , 137, 127-38; discussion 193-204	3.6	16
223	Species responsible for SiH ₂ bond formation in a-Si:H films deposited using silane high frequency discharges. <i>Thin Solid Films</i> , 2006 , 506-507, 17-21	2.2	16
222	Cluster-eliminating filter for depositing cluster-free a-Si:H films by plasma chemical vapor deposition. <i>Review of Scientific Instruments</i> , 2005 , 76, 113501	1.7	16
221	Formation Kinetics and Control of Dust Particles in Capacitively-Coupled Reactive Plasmas. <i>Physica Scripta</i> , 2001 , T89, 29	2.6	16
220	H-assisted plasma CVD of Cu films for interconnects in ultra-large-scale integration. <i>Science and Technology of Advanced Materials</i> , 2001 , 2, 505-515	7.1	16
219	Transport control of dust particles via the electrical asymmetry effect: experiment, simulation and modelling. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 245202	3	15
218	The protective action of osmolytes on the deleterious effects of gamma rays and atmospheric pressure plasma on protein conformational changes. <i>Scientific Reports</i> , 2017 , 7, 8698	4.9	15
217	Etching characteristics of organic low-k films interpreted by internal parameters employing a combinatorial plasma process in an inductively coupled H ₂ /N ₂ plasma. <i>Journal of Applied Physics</i> , 2010 , 107, 113310	2.5	15
216	Study on Growth Processes of Subnanometer Particles in Early Phase of Silane RF Discharge. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, 4212-4215	1.4	15
215	Effect of Nitridation of Si Nanoparticles on the Performance of Quantum-Dot Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AD01	1.4	15
214	Plasma interactions with amino acid (l-alanine) as a basis of fundamental processes in plasma medicine. <i>Current Applied Physics</i> , 2013 , 13, S59-S63	2.6	14
213	Surface loss probabilities of H and N radicals on different materials in afterglow plasmas employing H ₂ and N ₂ mixture gases. <i>Journal of Applied Physics</i> , 2010 , 107, 103310	2.5	14

212	Plasma processing of soft materials for development of flexible devices. <i>Thin Solid Films</i> , 2011 , 519, 6721-6726	1.4	14
211	Low-damage surface modification of polymethylmethacrylate with argon-oxygen mixture plasmas driven by multiple low-inductance antenna units. <i>Thin Solid Films</i> , 2010 , 518, 3561-3565	2.2	14
210	Transition of Particle Growth Region in SiH ₄ RF Discharges. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 5757-5762	1.4	14
209	Conformal Deposition of High-Purity Copper Using Plasma Reactor with H Atom Source. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 4492-4495	1.4	14
208	Low temperature synthesis of silicon quantum dots with plasma chemistry control in dual frequency non-thermal plasmas. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15697-710	3.6	14
207	Impact of radish sprouts seeds coat color on the electron paramagnetic resonance signals after plasma treatment. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SHHF01	1.4	13
206	Impact of an ionic liquid on protein thermodynamics in the presence of cold atmospheric plasma and gamma rays. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 25277-25288	3.6	13
205	Impacts of Amplitude Modulation of RF Discharge Voltage on the Growth of Nanoparticles in Reactive Plasmas. <i>Applied Physics Express</i> , 2011 , 4, 105001	2.4	13
204	Nanoparticle coagulation in fractionally charged and charge fluctuating dusty plasmas. <i>Physics of Plasmas</i> , 2008 , 15, 080703	2.1	13
203	Control of deposition profile of Cu for large-scale integration (LSI) interconnects by plasma chemical vapor deposition. <i>Pure and Applied Chemistry</i> , 2005 , 77, 391-398	2.1	13
202	Electron field emission in air at an atmospheric pressure from sp ³ -bonded 5H-BN microcones. <i>Journal of Applied Physics</i> , 2007 , 101, 084904	2.5	12
201	Impact of seed color and storage time on the radish seed germination and sprout growth in plasma agriculture. <i>Scientific Reports</i> , 2021 , 11, 2539	4.9	12
200	Surface Modification of Polymer Counter Electrode for Low Cost Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2016 , 210, 880-887	6.7	11
199	Fabrication of ZnInON/ZnO multi-quantum well solar cells. <i>Thin Solid Films</i> , 2015 , 587, 106-111	2.2	11
198	Effects of Nitrogen on Crystal Growth of Sputter-Deposited ZnO Films for Transparent Conducting Oxide. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 11NB03	1.4	11
197	Improvement on the Electron Transfer of Dye-Sensitized Solar Cell Using Vanadium Doped TiO ₂ . <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 11NM02	1.4	11
196	Epitaxial Growth of ZnInON Films with Tunable Band Gap from 1.7 to 3.3 eV on ZnO Templates. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 11NM06	1.4	11
195	Combinatorial Plasma Etching Process. <i>Applied Physics Express</i> , 2009 , 2, 096001	2.4	11

194	Diagnostics of plasma for metal - organic chemical vapour deposition of Cu and fabrication of Cu thin films using the plasma. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 2754-2758	3	11
193	Anisotropic deposition of Cu in trenches by H-assisted plasma chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 1903-1907	2.9	11
192	Cold Plasma Treatment of Sunflower Seeds Modulates Plant-Associated Microbiome and Stimulates Root and Lateral Organ Growth. <i>Frontiers in Plant Science</i> , 2020 , 11, 568924	6.2	11
191	DNA Microarray Analysis of Plant Seeds Irradiated by Active Oxygen Species in Oxygen Plasma. <i>Plasma Medicine</i> , 2016 , 6, 459-471	1.1	11
190	Plasma treatment causes structural modifications in lysozyme, and increases cytotoxicity towards cancer cells. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1724-1736	7.9	11
189	Characteristics of photocurrent generation in the near-ultraviolet region in Si quantum-dot sensitized solar cells. <i>Thin Solid Films</i> , 2013 , 544, 93-98	2.2	10
188	Combinatorial analyses of plasma-polymer interactions. <i>Surface and Coatings Technology</i> , 2011 , 205, S484-S489	4.4	10
187	Quantum dot-sensitized solar cells using Si nanoparticles. <i>Transactions of the Materials Research Society of Japan</i> , 2010 , 35, 597-599	0.2	10
186	Subacute pulmonary toxicity of copper indium gallium diselenide following intratracheal instillations into the lungs of rats. <i>Journal of Occupational Health</i> , 2012 , 54, 187-95	2.3	10
185	Low-damage plasma processing of polymers for development of organic-inorganic flexible devices. <i>Surface and Coatings Technology</i> , 2010 , 205, S355-S359	4.4	10
184	Two-Dimensional Spatial Profile of Volume Fraction of Nanoparticles Incorporated Into a-Si:H Films Deposited by Plasma CVD. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 888-889	1.3	10
183	Gas Flow Rate Dependence of the Discharge Characteristics of a Plasma Jet Impinging Onto the Liquid Surface. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 4081-4087	1.3	9
182	Influence of osmolytes and ionic liquids on the Bacteriorhodopsin structure in the absence and presence of oxidative stress: A combined experimental and computational study. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 657-665	7.9	9
181	Dust particle formation due to interaction between graphite and helicon deuterium plasmas. <i>Fusion Engineering and Design</i> , 2013 , 88, 28-32	1.7	9
180	Improvement of Si Adhesion and Reduction of Electron Recombination for Si Quantum Dot-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 01AD05	1.4	9
179	Effects of Hydrogen Dilution on ZnO Thin Films Fabricated via Nitrogen-Mediated Crystallization. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 01AC08	1.4	9
178	Anisotropic deposition of copper by H-assisted plasma chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , 2002 , 5, 301-304	4.3	9
177	Redox Characteristics of Thiol Compounds Using Radicals Produced by Water Vapor Radio Frequency Discharge. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JF04	1.4	9

176	Structural modification of NADPH oxidase activator (Noxa 1) by oxidative stress: An experimental and computational study. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 2405-2414	7.9	9
175	Local supply of reactive oxygen species into a tissue model by atmospheric-pressure plasma-jet exposure. <i>Journal of Applied Physics</i> , 2019 , 125, 213303	2.5	8
174	Effects of cluster incorporation into hydrogenated amorphous silicon films in initial discharge phase on film stability. <i>Thin Solid Films</i> , 2015 , 587, 126-131	2.2	8
173	Theory for correlation between plasma fluctuation and fluctuation of nanoparticle growth in reactive plasmas. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 010201	1.4	8
172	Mass density control of carbon films deposited by H-assisted plasma CVD method. <i>Surface and Coatings Technology</i> , 2013 , 228, S15-S18	4.4	8
171	Off-axis sputter deposition of ZnO films on c-sapphire substrates by utilizing nitrogen-mediated crystallization method. <i>Optical Engineering</i> , 2014 , 53, 087109	1.1	8
170	Sheath-to-sheath transport of dust particles in a capacitively coupled discharge. <i>Plasma Sources Science and Technology</i> , 2012 , 21, 032001	3.5	8
169	High Amount Cluster Incorporation in Initial Si Film Deposition by SiH ₄ Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 01AD01	1.4	8
168	Redox Characteristics of Thiol Compounds Using Radicals Produced by Water Vapor Radio Frequency Discharge. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JF04	1.4	8
167	Condensation of sp ³ -Bonded Boron Nitride through a Highly Nonequilibrium Fluid State. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 205-211	3.4	8
166	Potential structure in silane radio-frequency discharge containing particles. <i>Applied Physics Letters</i> , 1993 , 63, 1748-1750	3.4	8
165	Size and flux of carbon nanoparticles synthesized by Ar+CH ₄ multi-hollow plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2020 , 109, 108050	3.5	8
164	Impact of atmospheric pressure plasma treated seeds on germination, morphology, gene expression and biochemical responses. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 040502	1.4	8
163	Effect of sulfur doped TiO ₂ on photovoltaic properties of dye-sensitized solar cells. <i>Electronic Materials Letters</i> , 2016 , 12, 530-536	2.9	8
162	Alterations of DNA Methylation Caused by Cold Plasma Treatment Restore Delayed Germination of Heat-Stressed Rice (<i>Oryza sativa</i> L.) Seeds. <i>ACS Agricultural Science and Technology</i> , 2021 , 1, 5-10		8
161	Progress in photovoltaic performance of organic/inorganic hybrid solar cell based on optimal resistive Si and solvent modified poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) junction. <i>Progress in Photovoltaics: Research and Applications</i> , 2018 , 26, 145-150	6.8	8
160	Multigeneration Effects of Plasma Irradiation to Seeds of <i>Arabidopsis Thaliana</i> and <i>Zinnia</i> on Their Growth. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1723, 7		7
159	Growth of single crystalline films on lattice-mismatched substrates through 3D to 2D mode transition. <i>Scientific Reports</i> , 2020 , 10, 4669	4.9	7

158	Characteristics of crystalline sputtered LaFeO thin films as photoelectrochemical water splitting photocathodes. <i>Nanoscale</i> , 2020 , 12, 9653-9660	7.7	7
157	Study on the Fabrication of Paint-Type Si Quantum Dot-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 10MB07	1.4	7
156	In-situ Measurements of Cluster Volume Fraction in Silicon Thin Films Using Quartz Crystal Microbalances. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 307-311		7
155	Discharge power dependence of H α intensity and electron density of Ar+H ₂ discharges in H-assisted plasma CVD reactor. <i>Surface and Coatings Technology</i> , 2008 , 202, 5659-5662	4.4	7
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