

Kazunori Koga

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6804747/kazunori-koga-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

225
papers

2,459
citations

27
h-index

39
g-index

256
ext. papers

2,956
ext. citations

2.1
avg, IF

5.04
L-index

#	Paper	IF	Citations
225	Extension of the operational regime of the LHD towards a deuterium experiment. <i>Nuclear Fusion</i> , 2017 , 57, 102023	3.3	84
224	Review of pulmonary toxicity of indium compounds to animals and humans. <i>Thin Solid Films</i> , 2010 , 518, 2934-2936	2.2	78
223	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
222	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
221	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
220	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
219	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
218	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
217	Plasma Agriculture from Laboratory to Farm: A Review. <i>Processes</i> , 2020 , 8, 1002	2.9	52
216	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
215	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
214	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
213	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
212	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
211	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
210	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
209	Fabrication of Nanoparticle Composite Porous Films Having Ultralow Dielectric Constant. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1509-L1511	1.4	37

208	Correlation between volume fraction of clusters incorporated into a-Si:H films and hydrogen content associated with SiH 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
207	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
206	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
205	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
204	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. <i>Nuclear Fusion</i> , 2013 , 53, 104015	3.3	32
203	Nano-factories in plasma: present status and outlook. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174038	3.8	31
202	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
201	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
200	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
199	Impact of Gamma rays and DBD plasma treatments on wastewater treatment. <i>Scientific Reports</i> , 2018 , 8, 2926	4.9	27
198	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
197	Plant Growth Enhancement of Seeds Immersed in Plasma Activated Water. <i>MRS Advances</i> , 2017 , 2, 995-1000	10.0	25
196	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
195	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
194	High quality epitaxial ZnO films grown on solid-phase crystallized buffer layers. <i>Thin Solid Films</i> , 2012 , 520, 4674-4677	2.2	24
193	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
192	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
191	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

190	Nucleation and subsequent growth of clusters in reactive plasmas. <i>Plasma Sources Science and Technology</i> , 2002 , 11, A229-A233	3.5	20
189	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
188	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
187	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
186	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
185	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
184	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
183	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
182	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
181	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
180	Formation Kinetics and Control of Dust Particles in Capacitively-Coupled Reactive Plasmas. <i>Physica Scripta</i> , 2001 , T89, 29	2.6	16
179	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
178	Temperature and Pressure Dependences of the Grüneisen Constant of a Mat of Polyethylene Single Crystals. <i>Polymer Journal</i> , 1975 , 7, 14-20	2.7	16
177	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
176	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
175	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
174	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
173	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

172	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
171	Nanoparticle coagulation in fractionally charged and charge fluctuating dusty plasmas. <i>Physics of Plasmas</i> , 2008 , 15, 080703	2.1	13
170	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
169	Clustering phenomena in low-pressure reactive plasmas. Basis and applications. <i>Pure and Applied Chemistry</i> , 2002 , 74, 483-487	2.1	12
168	Behavior of the Ion Sheath Instability in a Negative Ion Plasma. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 1553-1557	1.4	12
167	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
166	Surface Modification of Polymer Counter Electrode for Low Cost Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2016 , 210, 880-887	6.7	11
165	Fabrication of ZnInON/ZnO multi-quantum well solar cells. <i>Thin Solid Films</i> , 2015 , 587, 106-111	2.2	11
164	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
163	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
162	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
161	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
160	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
159	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
158	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
157	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
156	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
155	Carbon particle formation due to interaction between H/ ₂ / plasma and carbon fiber composite wall. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 405-409	1.3	10

154	Progress and perspectives in dry processes for nanoscale feature fabrication: fine pattern transfer and high-aspect-ratio feature formation. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SE0802	1.4	9
153	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
152	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
151	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
150	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
149	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
148	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
147	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
146	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
145	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
144	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
143	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
142	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
141	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
140	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
139	In situ analysis of size distribution of nano-particles in reactive plasmas using two dimensional laser light scattering method. <i>Journal of Instrumentation</i> , 2012 , 7, C04017-C04017	1	8
138	Propagation Characteristics of Ion Acoustic Waves in an Ar/SF ₆ Plasma. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 1925-1926	1.5	8
137	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

136	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
135	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
134	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
133	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
132	Multigeneration Effects of Plasma Irradiation to Seeds of Arabidopsis Thaliana and Zinnia on Their Growth. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1723, 7		7
131	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
130	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
129	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
128	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
127	Effects of deposition rate and ion bombardment on properties of a-C:H films deposited by H-assisted plasma CVD method. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 01AA11	1.4	7
126	Correlation between SiH ₂ /SiH and light-induced degradation of p ⁺ hydrogenated amorphous silicon solar cells. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 07LE03	1.4	7
125	Possible impact of plasma oxidation on the structure of the C-terminal domain of SARS-CoV-2 spike protein: a computational study. <i>Applied Physics Express</i> , 2021 , 14, 027002	2.4	7
124	Densities and Surface Reaction Probabilities of Oxygen and Nitrogen Atoms During Sputter Deposition of ZnInON on ZnO. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 323-327	1.3	6
123	Plant Growth Response to Atmospheric Air Plasma Treatments of Seeds of 5 Plant Species. <i>MRS Advances</i> , 2016 , 1, 1265-1269	0.7	6
122	The improvement on the performance of quantum dot-sensitized solar cells with functionalized Si. <i>Thin Solid Films</i> , 2013 , 546, 284-288	2.2	6
121	Electrochemical impedance analysis on the additional layers for the enhancement on the performance of dye-sensitized solar cell. <i>Thin Solid Films</i> , 2014 , 554, 122-126	2.2	6
120	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	6
119	Hybrid sensitized solar cells using Si nanoparticles and ruthenium dye. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 3021-3024		6

118	Observation of Local Structures in Asymmetric Ion Sheath. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 1578-1584	1.5	6
117	Hysteresis in volume fraction of clusters incorporated into a-Si:H films deposited by SiH ₄ plasma chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2017 , 326, 388-394	4.4	5
116	Blue Photoluminescence of (ZnO) _{0.92} (InN) _{0.08} . <i>MRS Advances</i> , 2017 , 2, 277-282	0.7	5
115	Analysis on the photovoltaic property of Si quantum dot-sensitized solar cells. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 339-343	1.7	5
114	Effects of crystalline nanoparticle incorporation on growth, structure, and properties of microcrystalline silicon films deposited by plasma chemical vapor deposition. <i>Thin Solid Films</i> , 2012 , 523, 29-33	2.2	5
113	Control of radial density profile of nano-particles produced in reactive plasma by amplitude modulation of radio frequency discharge voltage. <i>Thin Solid Films</i> , 2012 , 523, 76-79	2.2	5
112	Fabrication, Transport and Raman Studies of Pulsed Laser Deposited Al/Ga Doped PBCO Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1222, 1		5
111	Comparison between silicon thin films with and without incorporating crystalline silicon nanoparticles into the film. <i>Thin Solid Films</i> , 2011 , 519, 6896-6898	2.2	5
110	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	5
109	P-type sp ³ -bonded BN/n-type Si heterodiode solar cell fabricated by laser plasma synchronous CVD method. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 225107	3	5
108	Experimental identification of the reactive oxygen species transported into a liquid by plasma irradiation. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 110502	1.4	5
107	Graphene-Si ₃ N ₄ nanocomposite blended polymer counter electrode for low-cost dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2020 , 758, 137920	2.5	5
106	Highly efficient and transparent counter electrode for application in bifacial solar cells. <i>Chemical Physics Letters</i> , 2021 , 768, 138369	2.5	5
105	Room Temperature Fabrication of (ZnO) _x (InN) _{1-x} films with Step-Terrace Structure by RF Magnetron Sputtering. <i>MRS Advances</i> , 2016 , 1, 115-119	0.7	5
104	Low temperature rapid formation of Au-induced crystalline Ge films using sputtering deposition. <i>Thin Solid Films</i> , 2017 , 641, 59-64	2.2	4
103	Effects of sputtering gas pressure dependence of surface morphology of ZnO films fabricated via nitrogen mediated crystallization. <i>MRS Advances</i> , 2017 , 2, 265-270	0.7	4
102	Photovoltaic application of Si nanoparticles fabricated by multihollow plasma discharge CVD: Dye and Si co-sensitized solar cells. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 01AD02	1.4	4
101	Structural alternation of tandem dye-sensitized solar cells based on mesh-type of counter electrode. <i>Electrochimica Acta</i> , 2015 , 179, 206-210	6.7	4

100	Effects of gas flow rate on deposition rate and number of Si clusters incorporated into a-Si:H films. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 01AA19	1.4	4
99	Effects of Gas Pressure on the Size Distribution and Structure of Carbon Nanoparticles Using Ar + CH ₄ Multi-Hollow Discharged Plasma Chemical Vapor Deposition. <i>Plasma and Fusion Research</i> , 2019 , 14, 4406115-4406115	0.5	4
98	Discharge power dependence of carbon dust flux in a divertor simulator. <i>Journal of Nuclear Materials</i> , 2013 , 438, S788-S791	3.3	4
97	Effects of Atmospheric Pressure Dielectric Barrier Discharge Plasma Irradiation on Yeast Growth. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1469, 86		4
96	Influence of Atmospheric Pressure Torch Plasma Irradiation on Plant Growth. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1469, 92		4
95	Rapid Growth of Radish Sprouts Using Low Pressure O ₂ Radio Frequency Plasma Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1469, 61		4
94	Piezoelectric properties of oriented films of poly(β-methyl D-glutamate). <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1976 , 14, 401-414		4
93	Fluctuation of Position and Energy of a Fine Particle in Plasma Nanofabrication. <i>Materials Science Forum</i> , 2016 , 879, 1772-1777	0.4	4
92	Transportation of reactive oxygen species in a tissue phantom after plasma irradiation. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 01AG01	1.4	4
91	Cold plasma treatment of <i>Arabidopsis thaliana</i> (L.) seeds modulates plant-associated microbiome composition. <i>Applied Physics Express</i> , 2020 , 13, 076001	2.4	3
90	Effects of surrounding gas on plasma-induced downward liquid flow. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SHHF02	1.4	3
89	The effect of the H ₂ /(H ₂ + Ar) flow-rate ratio on hydrogenated amorphous carbon films grown using Ar/H ₂ /C ₇ H ₈ plasma chemical vapor deposition. <i>Thin Solid Films</i> , 2018 , 660, 891-898	2.2	3
88	Improvement of Charge Transportation in Si Quantum Dot-Sensitized Solar Cells Using Vanadium Doped TiO ₂ . <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4875-9	1.3	3
87	Effects of DC substrate bias voltage on dust flux in the Large Helical Device. <i>Journal of Nuclear Materials</i> , 2013 , 438, S727-S730	3.3	3
86	Effects of morphology of buffer layers on ZnO/sapphire heteroepitaxial growth by RF magnetron sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1741, 33		3
85	Performance dependence of Si quantum dot-sensitized solar cells on counter electrode. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FZ01	1.4	3
84	SiC Nanoparticle Composite Anode for Li-Ion Batteries. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1678, 7		3
83	Correlation between Volume Fraction of Silicon Clusters in Amorphous Silicon Films and Optical Emission Properties of Si* and SiH*. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 11NA07	1.4	3

82	Combinatorial Deposition of Microcrystalline Silicon Films Using Multihollow Discharge Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AD02	1.4	3
81	Temperature Dependence of Dielectric Constant of Nanoparticle Composite Porous Low-kFilms Fabricated by Pulse Radio Frequency Discharge with Amplitude Modulation. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 6875-6878	1.4	3
80	ZnO:Al Thin Films with Buffer Layers Fabricated via Nitrogen Mediated Crystallization: Effects of N ₂ /Ar Gas Flow Rate Ratio. <i>Transactions of the Materials Research Society of Japan</i> , 2012 , 37, 165-168	0.2	3
79	Effects of Gas Velocity on Deposition Rate and Amount of Cluster Incorporation into a-Si:H Films Fabricated by SiH ₄ Plasma Chemical Vapor Deposition. <i>Plasma and Fusion Research</i> , 2018 , 13, 1406082-1406082	0.5	3
78	Plasma Treatment Effect on the Paramagnetic Species of Barley Seed Radical Intensity: An EPR Study. <i>Plasma Medicine</i> , 2020 , 10, 159-168	1.1	3
77	Combinatorial Deposition of Microcrystalline Silicon Films Using Multihollow Discharge Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AD02	1.4	3
76	Transport of Nano-particles.in Amplitude Modulated RF Discharges. <i>Transactions of the Materials Research Society of Japan</i> , 2007 , 32, 501-504	0.2	3
75	Real-time monitoring of surface passivation of crystalline silicon during growth of amorphous and epitaxial silicon layer. <i>Journal of Applied Physics</i> , 2020 , 128, 033302	2.5	3
74	Long-term response of Norway spruce to seed treatment with cold plasma: Dependence of the effects on the genotype. <i>Plasma Processes and Polymers</i> , 2021 , 18, 2000159	3.4	3
73	Effects of Activated Carbon Counter Electrode on Bifacial Dye Sensitized Solar Cells (DSSCs). <i>Materials Science Forum</i> , 2016 , 863-868	0.4	3
72	Progress and perspectives in dry processes for leading-edge manufacturing of devices: toward intelligent processes and virtual product development. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SE0804	1.4	2
71	Controlling feeding gas temperature of plasma jet with Peltier device for experiments with fission yeast. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SEEG03	1.4	2
70	Fabrication of p-i-n solar cells utilizing ZnInON by RF magnetron sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1741, 53		2
69	Performance enhancement of quantum dot-sensitized solar cells based on polymer nano-composite catalyst. <i>Electrochimica Acta</i> , 2017 , 249, 337-342	6.7	2
68	Effects of discharge voltage on the characteristics of a-C:H films prepared by H-assisted Plasma CVD method. <i>Transactions of the Materials Research Society of Japan</i> , 2015 , 40, 123-128	0.2	2
67	Effects of Atmospheric Air Plasma Irradiation to Seeds of Radish Sprouts on Chlorophyll and Carotenoids Concentrations in their Leaves. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1723, 34		2
66	H ₂ /N ₂ Plasma Etching Rate of Carbon Films Deposited by H-Assisted Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 01AB01	1.4	2
65	Deposition of cluster-free P-doped a-Si:H films using SiH ₄ +PH ₃ multi-hollow discharge plasma CVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 3013-3016		2

64	2010,		2
63	Pulmonary Toxicity of Indium Tin Oxide and Copper Indium Gallium Diselenide. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1469, 125		2
62	A device for trapping nano-particles formed in processing plasmas for reduction of nano-waste. <i>Surface and Coatings Technology</i> , 2007 , 201, 5701-5704	4.4	2
61	Control of Nanostructure of Plasma CVD Films for Third Generation Photovoltaics. <i>Journal of Physics: Conference Series</i> , 2007 , 86, 012021	0.3	2
60	Effects of Excitation Frequency and H2 Dilution on Cluster Generation in Silane High-Frequency Discharges. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 762, 951		2
59	Low-stress diamond-like carbon films containing carbon nanoparticles fabricated by combining rf sputtering and plasma chemical vapor deposition. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 100906	1.4	2
58	Deposition of Cluster-Free B-doped Hydrogenated Amorphous Silicon Films Using SiH4+B10H14Multi-Hollow Discharge Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AD03	1.4	2
57	Optical Bandgap Energy of Si Nanoparticle Composite Films Deposited by a Multi-Hollow Discharge Plasma Chemical Vapor Deposition Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 10753-10757	1.3	2
56	Green route for ammonium nitrate synthesis: fertilizer for plant growth enhancement.. <i>RSC Advances</i> , 2021 , 11, 28521-28529	3.7	2
55	Effects of concentrated light on the performance and stability of a quasi-solid electrolyte in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2021 , 781, 138986	2.5	2
54	Effects of Atmospheric Air Plasma Irradiation on pH of Water 2014 ,		1
53	Dust Hour Glass in a Capacitive RF Discharge. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 2672-2673	1.3	1
52	Effects of nanoparticle incorporation on properties of microcrystalline films deposited using multi-hollow discharge plasma CVD. <i>Surface and Coatings Technology</i> , 2013 , 228, S550-S553	4.4	1
51	Nanostructure Control of Si and Ge Quantum Dots Based Solar Cells Using Plasma Processes. <i>Materials Science Forum</i> , 2014 , 783-786, 2022-2027	0.4	1
50	Flux Control of Carbon Nanoparticles Generated due to Interactions between Hydrogen Plasmas and Graphite Using DC-Biased Substrates. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 11NA08	1.4	1
49	Characteristics of Crystalline Silicon/Si Quantum Dot/Poly(3,4-ethylenedioxythiophene) Hybrid Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 11NA05	1.4	1
48	Photoluminescence of Si nanoparticles synthesized using multi-hollow discharge plasma CVD 2010 ,		1
47	Substrate temperature dependence of feature profile of carbon films on substrate with submicron trenches 2010 ,		1

46	2010,			1
45	Characteristics of stable a-Si:H Schottky cells fabricated by suppressing cluster deposition. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 377-382			1
44	Deposition of Cluster-Free B-doped Hydrogenated Amorphous Silicon Films Using $\text{SiH}_4 + \text{B}_{10}\text{H}_{14}$ Multi-Hollow Discharge Plasma Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AD03	1.4		1
43	Incorporation of Higher-Order Silane Radicals Into A-Si:H Films of High Stability Against Light Exposure 2006 ,			1
42	????????????????????????????????????CVD. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2003 , 54, 931-934	0.1		1
41	Deposition of Smooth Thin Cu Films in Deep Submicron Trench by Plasma CVD Reactor with H Atom Source. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 612, 921			1
40	Cluster-less Plasma CVD Reactor and Its Application to a-Si:H Film Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 561			1
39	Impact of surface morphologies of substrates on the epitaxial growth of magnetron-sputtered $(\text{ZnO})_x(\text{InN})_{1-x}$ films. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, SAAB02	1.4		1
38	Performance Characteristics of Bifacial Dye-Sensitized Solar Cells with a V-Shaped Low-Concentrating Light System. <i>ACS Applied Energy Materials</i> ,	6.1		1
37	Time of Flight Size Control of Carbon Nanoparticles Using Ar+CH ₄ Multi-Hollow Discharge Plasma Chemical Vapor Deposition Method. <i>Processes</i> , 2021 , 9, 2	2.9		1
36	THE TRANSFORMATION MECHANISM OF POLY (METHYL GLUTAMATE) FILMS CAST FROM DICHLOROACETIC ACID AND ITS APPLICATION FOR FIBER FORMATION IN THE FORM. <i>Journal of Fiber Science and Technology</i> , 1981 , 37, T448-T457	0		1
35	Effect of hydrogen dilution on the silicon cluster volume fraction of a hydrogenated amorphous silicon film prepared using plasma-enhanced chemical vapor deposition. <i>Current Applied Physics</i> , 2020 , 20, 191-195	2.6		1
34	Comparison between Ar+CH ₄ cathode and anode coupling chemical vapor depositions of hydrogenated amorphous carbon films. <i>Thin Solid Films</i> , 2021 , 729, 138701	2.2		1
33	Sputter Epitaxy of $(\text{ZnO})_x(\text{InN})_{1-x}$ films on Lattice-mismatched Sapphire Substrate. <i>MRS Advances</i> , 2019 , 4, 1551-1556	0.7		1
32	Photoluminescence of $(\text{ZnO})_{0.82}(\text{InN})_{0.18}$ Films: Incident Light Angle Dependence. <i>Materials Science Forum</i> , 2018 , 941, 2099-2103	0.4		1
31	Particle behavior and its contribution to film growth in a remote silane plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 050601	2.9		1
30	Progress and perspectives in dry processes for emerging multidisciplinary applications: how can we improve our use of dry processes?. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SE0803	1.4		0
29	Real-time mass measurement of dust particles deposited on vessel wall in a divertor simulator using quartz crystal microbalances. <i>Journal of Nuclear Materials</i> , 2015 , 463, 865-868	3.3		0

28	Performances of Carbon Black-Titanium nitrate and Carbon Black-Titanium/Triton X-100 Composite Polymer Counter Electrodes for Dye-Sensitized Solar Cells. <i>Advanced Materials Research</i> , 1168, 35-47	0.5	0
27	Improved luminescence performance of Yb ³⁺ -Er ³⁺ -Zn ²⁺ : Y ₂ O ₃ phosphor and its application to solar cells. <i>Optical Materials</i> , 2022, 123, 111928	3.3	0
26	Spatial-Structure of Fluctuation of Amount of Nanoparticles in Amplitude-Modulated VHF Discharge Reactive Plasma. <i>Plasma and Fusion Research</i> , 2019, 14, 4406120-4406120	0.5	0
25	Outcomes of Pulsed Electric Fields and Nonthermal Plasma Treatments on Seed Germination and Protein Functions. <i>Agronomy</i> , 2022, 12, 482	3.6	0
24	Production of In, Au, and Pt nanoparticles by discharge plasmas in water for assessment of their bio-compatibility and toxicity. <i>MRS Advances</i> , 2016, 1, 1301-1306	0.7	
23	Effects of nitrogen impurity on zno crystal growth on Si substrates. <i>MRS Advances</i> , 2019, 4, 1557-1563	0.7	
22	Identification and Suppression of Si-H ₂ Bond Formation at P/I Interface in a-Si:H Films Deposited by SiH ₄ Plasma CVD. <i>Plasma and Fusion Research</i> , 2019, 14, 4406141-4406141	0.5	
21	Performance enhancement of dye and Si quantum dot hybrid nanostructured solar cell with TiO ₂ barrier. <i>Transactions of the Materials Research Society of Japan</i> , 2014, 39, 321-324	0.2	
20	Growth control of ZnO nano-rod with various seeds and photovoltaic application. <i>Journal of Physics: Conference Series</i> , 2013, 441, 012029	0.3	
19	Deposition of Germanium Crystalline Nanoparticle Composite Films by Using Reactive Dusty Plasma Process and their Application for Quantum-Dot Solar Cells. <i>Journal of Smart Processing</i> , 2015, 4, 6-11	0.2	
18	Comparative Study on the Pulmonary Toxicity of Indium Hydroxide, Indium-Tin Oxide, and Indium Oxide Following Intratracheal Instillations into the Lungs of Rats. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1723, 19		
17	High rate deposition of cluster-suppressed amorphous silicon films deposited using a multi-hollow discharge plasma CVD. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1210, 1		
16	Deposition profile control of carbon films on patterned substrates using a hydrogen-assisted plasma CVD method. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1222, 1		
15	The Optical Analysis and Application of Size-controllable Si Quantum Dots Fabricated by Multi-hollow Discharge Plasma Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1426, 313-318		
14	Nano-particle formation due to interaction between H ₂ plasma and carbon wall. <i>Thin Solid Films</i> , 2006, 506-507, 656-659	2.2	
13	EVALUATION OF CONTRIBUTION OF HIGHER-ORDER SILANE RADICALS IN SILANE DISCHARGES TO Si-H ₂ BOND FORMATION IN A-SI:H FILMS 2005, 79-82		
12	Methods of Suppressing Cluster Growth in Silane RF Discharges. <i>Materials Research Society Symposia Proceedings</i> , 2000, 609, 561		
11	Agricultural Application of Low-Temperature Plasmas; Toward a Novel Environmentally Friendly Technology of Plant Response Control with Low Cost. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2020, 140, 605-608		0

- 10 Anisotropic Plasma Chemical Vapor Deposition of Copper Films in Trenches. *Materials Research Society Symposia Proceedings*, **2003**, 766, 381
- 9 EFFECTS OF SPUTTERING DUE TO ION IRRADIATION ON PLASMA ANISOTROPIC CVD OF CU **2005**, 75-78
- 8 Visualization Study on Interaction Between Nonequilibrium Atmospheric Pressure He Plasma Jet and Liquid Solution. *Journal of Smart Processing*, **2019**, 8, 58-63 0.2
- 7 Effect of Higher-Order Silane Deposition on Spatial Profile of Si-H₂/Si-H Bond Density Ratio of a-Si:H Films. *Plasma and Fusion Research*, **2019**, 14, 4406144-4406144 0.5
- 6 Deposition of a-Si: H Films with High Stability against Light Exposure by Reducing Deposition of Nanoparticles Formed in SiH₄ Discharges 247-257
- 5 Nanoblock Assembly Using Pulse RF Discharges with Amplitude Modulation 377-383
- 4 Effects of Sputtering Pressure on (ZnO)_x(InN)_{1-x} Crystal Film Growth at 450°C. *Materials Science Forum*, **2018**, 941, 2093-2098 0.4
- 3 Cross-Correlation Analysis of Fluctuations of Interactions between Nanoparticles and Low Pressure Reactive Plasmas. *Materials Science Forum*, **2018**, 941, 2104-2108 0.4
- 2 The Effects of Spin-Coating Rate on Surface Roughness, Thickness, and Electrochemical Properties of a Pt Polymer Counter Electrode. *Advanced Engineering Forum*, **45**, 1-13 0.2
- 1 Performance comparison of nitrile-based liquid electrolytes on bifacial dye-sensitized solar cells under low-concentrated light. *MRS Advances*, **1** 0.7