

Eun Ha Choi

List of Publications by Year in descending order

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Version: 2024-02-01

256
papers

9,235
citations

41344

49
h-index

62596

80
g-index

261
all docs

261
docs citations

261
times ranked

8233
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomedical Importance of Indoles. <i>Molecules</i> , 2013, 18, 6620-6662.	3.8	927
2	Generation mechanism of hydroxyl radical species and its lifetime prediction during the plasma-initiated ultraviolet (UV) photolysis. <i>Scientific Reports</i> , 2015, 5, 9332.	3.3	367
3	Clinical experience with cold plasma in the treatment of locally advanced head and neck cancer. <i>Clinical Plasma Medicine</i> , 2018, 9, 6-13.	3.2	236
4	Biological and medical applications of plasma-activated media, water and solutions. <i>Biological Chemistry</i> , 2018, 400, 39-62.	2.5	227
5	Nanosecond-Pulsed DBD Plasma-Generated Reactive Oxygen Species Trigger Immunogenic Cell Death in A549 Lung Carcinoma Cells through Intracellular Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2017, 18, 966.	4.1	159
6	T-2 mycotoxin: toxicological effects and decontamination strategies. <i>Oncotarget</i> , 2017, 8, 33933-33952.	1.8	136
7	Responses of Solid Tumor Cells in DMEM to Reactive Oxygen Species Generated by Non-Thermal Plasma and Chemically Induced ROS Systems. <i>Scientific Reports</i> , 2015, 5, 8587.	3.3	123
8	Surface plasmon excitation in semitransparent inverted polymer photovoltaic devices and their applications as label-free optical sensors. <i>Light: Science and Applications</i> , 2014, 3, e222-e222.	16.6	118
9	Impact of ROS Generated by Chemical, Physical, and Plasma Techniques on Cancer Attenuation. <i>Cancers</i> , 2019, 11, 1030.	3.7	112
10	Non-Thermal Plasma Treatment Diminishes Fungal Viability and Up-Regulates Resistance Genes in a Plant Host. <i>PLoS ONE</i> , 2014, 9, e99300.	2.5	102
11	Bacterial inactivation by plasma treated water enhanced by reactive nitrogen species. <i>Scientific Reports</i> , 2018, 8, 11268.	3.3	101
12	Influence of reactive species on the modification of biomolecules generated from the soft plasma. <i>Scientific Reports</i> , 2015, 5, 8221.	3.3	100
13	Cold Atmospheric Plasma-Activated Water Irrigation Induces Defense Hormone and Gene expression in Tomato seedlings. <i>Scientific Reports</i> , 2019, 9, 16080.	3.3	97
14	Work function of MgO single crystals from ion-induced secondary electron emission coefficient. <i>Journal of Applied Physics</i> , 2003, 94, 764-769.	2.5	92
15	Plasma and Nanomaterials: Fabrication and Biomedical Applications. <i>Nanomaterials</i> , 2019, 9, 98.	4.1	92
16	Effects of high voltage nanosecond pulsed plasma and micro DBD plasma on seed germination, growth development and physiological activities in spinach. <i>Archives of Biochemistry and Biophysics</i> , 2016, 605, 117-128.	3.0	90
17	Effects of atmospheric-pressure non-thermal bio-compatible plasma and plasma activated nitric oxide water on cervical cancer cells. <i>Scientific Reports</i> , 2017, 7, 45781.	3.3	88
18	Altered Antioxidant System Stimulates Dielectric Barrier Discharge Plasma-Induced Cell Death for Solid Tumor Cell Treatment. <i>PLoS ONE</i> , 2014, 9, e103349.	2.5	86

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19	Low doses of PEG-coated gold nanoparticles sensitize solid tumors to cold plasma by blocking the PI3K/AKT-driven signaling axis to suppress cellular transformation by inhibiting growth and EMT. <i>Biomaterials</i> , 2016, 87, 118-130.	11.4	86
20	Measurement of Reactive Hydroxyl Radical Species Inside the Biosolutions During Non-thermal Atmospheric Pressure Plasma Jet Bombardment onto the Solution. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 457-472.	2.4	81
21	Micronucleus formation induced by dielectric barrier discharge plasma exposure in brain cancer cells. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	76
22	Biomedical and Clinical Importance of Mussel-Inspired Polymers and Materials. <i>Marine Drugs</i> , 2015, 13, 6792-6817.	4.6	76
23	The action of microsecond-pulsed plasma-activated media on the inactivation of human lung cancer cells. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 115401.	2.8	74
24	Chemical-free and synergistic interaction of ultrasound combined with plasma-activated water (PAW) to enhance microbial inactivation in chicken meat and skin. <i>Scientific Reports</i> , 2020, 10, 1559.	3.3	74
25	A comparative study for the inactivation of multidrug resistance bacteria using dielectric barrier discharge and nano-second pulsed plasma. <i>Scientific Reports</i> , 2015, 5, 13849.	3.3	73
26	The effect of the gap distance between an atmospheric-pressure plasma jet nozzle and liquid surface on OH and N ₂ species concentrations. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	73
27	Cold plasma seed priming modulates growth, redox homeostasis and stress response by inducing reactive species in tomato (<i>Solanum lycopersicum</i>). <i>Free Radical Biology and Medicine</i> , 2020, 156, 57-69.	2.9	72
28	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.	3.3	71
29	Cytotoxic macrophage-released tumour necrosis factor-alpha (TNF- α) as a killing mechanism for cancer cell death after cold plasma activation. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 084001.	2.8	71
30	Recent Progress in Applications of Non-Thermal Plasma for Water Purification, Bio-Sterilization, and Decontamination. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3372.	2.5	71
31	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.	3.3	70
32	The role of UV photolysis and molecular transport in the generation of reactive species in a tissue model with a cold atmospheric pressure plasma jet. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	69
33	Mechanism and optimization of non-thermal plasma-activated water for bacterial inactivation by underwater plasma jet and delivery of reactive species underwater by cylindrical DBD plasma. <i>Current Applied Physics</i> , 2019, 19, 1006-1014.	2.4	68
34	Generation and Role of Reactive Oxygen and Nitrogen Species Induced by Plasma, Lasers, Chemical Agents, and Other Systems in Dentistry. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-13.	4.0	67
35	Influence of Reactive Oxygen Species on the Enzyme Stability and Activity in the Presence of Ionic Liquids. <i>PLoS ONE</i> , 2013, 8, e75096.	2.5	65
36	Dielectric Barrier Discharge Plasma Efficiently Delivers an Apoptotic Response in Human Monocytic Lymphoma. <i>Plasma Processes and Polymers</i> , 2014, 11, 1175-1187.	3.0	65

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37	Induced apoptosis in melanocytes cancer cell and oxidation in biomolecules through deuterium oxide generated from atmospheric pressure non-thermal plasma jet. Scientific Reports, 2015, 4, 7589.	3.3	65
38	Effects of Background Fluid on the Efficiency of Inactivating Yeast with Non-Thermal Atmospheric Pressure Plasma. PLoS ONE, 2013, 8, e66231.	2.5	64
39	Assessment of the Effects of Nitrogen Plasma and Plasma-Generated Nitric Oxide on Early Development of <i>Coriandum sativum</i> . Plasma Processes and Polymers, 2015, 12, 1164-1173.	3.0	64
40	Non-thermal plasma with 2-deoxy-D-glucose synergistically induces cell death by targeting glycolysis in blood cancer cells. Scientific Reports, 2015, 5, 8726.	3.3	63
41	The antibacterial effect of non-thermal atmospheric pressure plasma treatment of titanium surfaces according to the bacterial wall structure. Scientific Reports, 2019, 9, 1938.	3.3	63
42	Cold atmospheric plasma and silymarin nanoemulsion synergistically inhibits human melanoma tumorigenesis via targeting HGF/c-MET downstream pathway. Cell Communication and Signaling, 2019, 17, 52.	6.5	58
43	Enhancement of hydrogen peroxide production from an atmospheric pressure argon plasma jet and implications to the antibacterial activity of plasma activated water. Plasma Sources Science and Technology, 2021, 30, 035009.	3.1	58
44	Molecular Insights into the Interaction of RONS and Thieno[3,2-c]pyran Analogs with SIRT6/COX-2: A Molecular Dynamics Study. Scientific Reports, 2018, 8, 4777.	3.3	57
45	Preventing the Solid Cancer Progression via Release of Anticancer-Cytokines in Co-Culture with Cold Plasma-Stimulated Macrophages. Cancers, 2019, 11, 842.	3.7	56
46	High-power microwave generation from an axially extracted virtual cathode oscillator. IEEE Transactions on Plasma Science, 2000, 28, 2128-2134.	1.3	54
47	Effect of jet plasma on T98G human brain cancer cells. Current Applied Physics, 2013, 13, 176-180.	2.4	54
48	Differential Epigenetic Effects of Atmospheric Cold Plasma on MCF-7 and MDA-MB-231 Breast Cancer Cells. PLoS ONE, 2015, 10, e0129931.	2.5	54
49	Variation in the structural changes of myoglobin in the presence of several protic ionic liquid. International Journal of Biological Macromolecules, 2014, 69, 114-123.	7.5	52
50	Low-Temperature Plasma-Assisted Nitrogen Fixation for Corn Plant Growth and Development. International Journal of Molecular Sciences, 2021, 22, 5360.	4.1	52
51	Synthesis and Antiproliferative Activity of Ammonium and Imidazolium Ionic Liquids against T98G Brain Cancer Cells. Molecules, 2012, 17, 13727-13739.	3.8	51
52	Structural and functional analysis of lysozyme after treatment with dielectric barrier discharge plasma and atmospheric pressure plasma jet. Scientific Reports, 2017, 7, 1027.	3.3	51
53	Cold atmospheric plasma restores tamoxifen sensitivity in resistant MCF-7 breast cancer cell. Free Radical Biology and Medicine, 2017, 110, 280-290.	2.9	49
54	Impact of Gamma rays and DBD plasma treatments on wastewater treatment. Scientific Reports, 2018, 8, 2926.	3.3	49

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55	Nanocarrier cancer therapeutics with functional stimuli-responsive mechanisms. Journal of Nanobiotechnology, 2022, 20, 152.	9.1	49
56	A Preliminary Study of the Effect of DBD Plasma and Osmolytes on T98G Brain Cancer and HEK Non-Malignant Cells. Molecules, 2013, 18, 4917-4928.	3.8	47
57	Inactivation of Escherichia coli and Staphylococcus aureus on contaminated perilla leaves by Dielectric Barrier Discharge (DBD) plasma treatment. Archives of Biochemistry and Biophysics, 2018, 643, 32-41.	3.0	47
58	Cold atmospheric plasma (CAP), a novel physicochemical source, induces neural differentiation through cross-talk between the specific RONS cascade and Trk/Ras/ERK signaling pathway. Biomaterials, 2018, 156, 258-273.	11.4	46
59	Enhancement of vitality and activity of a plant growth-promoting bacteria (PGPB) by atmospheric pressure non-thermal plasma. Scientific Reports, 2019, 9, 1044.	3.3	46
60	Sustainable nitrogen fixation from synergistic effect of photo-electrochemical water splitting and atmospheric pressure N ₂ plasma. Plasma Sources Science and Technology, 2020, 29, 045026.	3.1	45
61	Evaluation of non-thermal effect of microwave radiation and its mode of action in bacterial cell inactivation. Scientific Reports, 2021, 11, 14003.	3.3	45
62	Non-Thermal Atmospheric Pressure Bio-Compatible Plasma Stimulates Apoptosis via p38/MAPK Mechanism in U87 Malignant Glioblastoma. Cancers, 2020, 12, 245.	3.7	44
63	Time-dependent effects of ultraviolet and nonthermal atmospheric pressure plasma on the biological activity of titanium. Scientific Reports, 2016, 6, 33421.	3.3	43
64	An atmospheric pressure plasma jet operated by injecting natural air. Applied Physics Letters, 2018, 113, .	3.3	43
65	Strategies for Using Polydopamine to Induce Biomineralization of Hydroxyapatite on Implant Materials for Bone Tissue Engineering. International Journal of Molecular Sciences, 2020, 21, 6544.	4.1	43
66	Cold atmospheric plasma generated reactive species aided inhibitory effects on human melanoma cells: an in vitro and in silico study. Scientific Reports, 2020, 10, 3396.	3.3	43
67	Selective Killing Effects of Cold Atmospheric Pressure Plasma with NO Induced Dysfunction of Epidermal Growth Factor Receptor in Oral Squamous Cell Carcinoma. PLoS ONE, 2016, 11, e0150279.	2.5	43
68	<i>In situ</i> plasma-assisted synthesis of polydopamine-functionalized gold nanoparticles for biomedical applications. Green Chemistry, 2020, 22, 6588-6599.	9.0	41
69	Influence of secondary electron emission on breakdown voltage in a plasma display panel. Applied Physics Letters, 2001, 78, 592-594.	3.3	40
70	Disintegration of Carbon Dioxide Molecules in a Microwave Plasma Torch. Scientific Reports, 2015, 5, 18436.	3.3	40
71	Variation in structure of proteins by adjusting reactive oxygen and nitrogen species generated from dielectric barrier discharge jet. Scientific Reports, 2016, 6, 35883.	3.3	40
72	Epigenetic silencing of miR-19a-3p by cold atmospheric plasma contributes to proliferation inhibition of the MCF-7 breast cancer cell. Scientific Reports, 2016, 6, 30005.	3.3	39

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73	Scavenging effects of ascorbic acid and mannitol on hydroxyl radicals generated inside water by an atmospheric pressure plasma jet. AIP Advances, 2018, 8, .	1.3	39
74	Cold Atmospheric Plasma and Silymarin Nanoemulsion Activate Autophagy in Human Melanoma Cells. International Journal of Molecular Sciences, 2020, 21, 1939.	4.1	38
75	Analysis of the antimicrobial effects of nonthermal plasma on fungal spores in ionic solutions. Free Radical Biology and Medicine, 2014, 72, 191-199.	2.9	37
76	Impact of non-thermal dielectric barrier discharge plasma on Staphylococcus aureus and Bacillus cereus and quality of dried blackmouth angler (Lophiomus setigerus). Journal of Food Engineering, 2020, 278, 109952.	5.2	37
77	Cold Plasma Jets Made of a Syringe Needle Covered With a Glass Tube. IEEE Transactions on Plasma Science, 2011, 39, 1234-1238.	1.3	36
78	Influence of Hydroxyl Group Position and Temperature on Thermophysical Properties of Tetraalkylammonium Hydroxide Ionic Liquids with Alcohols. PLoS ONE, 2014, 9, e86530.	2.5	36
79	Output characteristics of the high-power microwave generated from a coaxial vircator with a bar reflector in a drift region. IEEE Transactions on Plasma Science, 2006, 34, 937-944.	1.3	35
80	Influence of plasma-activated compounds on melanogenesis and tyrosinase activity. Scientific Reports, 2016, 6, 21779.	3.3	35
81	Cellular and molecular responses of Neurospora crassa to non-thermal plasma at atmospheric pressure. Applied Physics Letters, 2012, 100, 063703.	3.3	34
82	Feeding Gas Effects of Plasma Jets on Escherichia coli in Physiological Solutions. Plasma Processes and Polymers, 2013, 10, 235-242.	3.0	34
83	Enhancing the power of high power microwaves by using zone plate and investigations for the position of virtual cathode inside the drift tube. Physics of Plasmas, 2018, 25, .	1.9	34
84	Photodynamic Anticancer Activities of Multifunctional Cobalt Ferrite Nanoparticles in Various Cancer Cells. Journal of Biomedical Nanotechnology, 2015, 11, 226-235.	1.1	33
85	Surface modification of biphasic calcium phosphate scaffolds by non-thermal atmospheric pressure nitrogen and air plasma treatment for improving osteoblast attachment and proliferation. Thin Solid Films, 2013, 547, 235-240.	1.8	32
86	How Does Plasma Activated Media Treatment Differ From Direct Cold Plasma Treatment?. Anti-Cancer Agents in Medicinal Chemistry, 2018, 18, 805-814.	1.7	32
87	Non-thermal argon plasma jets of various lengths for selective reactive oxygen and nitrogen species production. Journal of Environmental Chemical Engineering, 2022, 10, 107782.	6.7	32
88	Highly efficient self-powered perovskite photodiode with an electron-blocking hole-transport NiOx layer. Scientific Reports, 2021, 11, 169.	3.3	31
89	Cellular Attachment and Differentiation on Titania Nanotubes Exposed to Air- or Nitrogen-Based Non-Thermal Atmospheric Pressure Plasma. PLoS ONE, 2014, 9, e113477.	2.5	31
90	Influence of water vapour with non-thermal plasma jet on the apoptosis of SK-BR-3 breast cancer cells. RSC Advances, 2015, 5, 14670-14677.	3.6	30

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91	Control of hydrogen peroxide production in plasma activated water by utilizing nitrification. Journal Physics D: Applied Physics, 2019, 52, 265206.	2.8	30
92	The Study on Inhibition of Planktonic Bacterial Growth by Non-Thermal Atmospheric Pressure Plasma Jet Treated Surfaces for Dental Application. Journal of Biomedical Nanotechnology, 2015, 11, 334-341.	1.1	29
93	Optical and structural properties of plasma-treated <i>Cordyceps bassiana</i> spores as studied by circular dichroism, absorption, and fluorescence spectroscopy. Journal of Applied Physics, 2015, 117, .	2.5	29
94	Effect of wet storage on the bioactivity of ultraviolet light- and non-thermal atmospheric pressure plasma-treated titanium and zirconia implant surfaces. Materials Science and Engineering C, 2019, 105, 110049.	7.3	28
95	Cold Atmospheric Plasma Restores Paclitaxel Sensitivity to Paclitaxel-Resistant Breast Cancer Cells by Reversing Expression of Resistance-Related Genes. Cancers, 2019, 11, 2011.	3.7	28
96	Enhancement of antibacterial and wettability performances of polyvinyl alcohol/chitosan film using non-thermal atmospheric pressure plasma. Applied Surface Science, 2020, 532, 147339.	6.1	28
97	The effects of non-thermal atmospheric pressure plasma jet on cellular activity at SLA-treated titanium surfaces. Current Applied Physics, 2013, 13, S36-S41.	2.4	27
98	Melanoma Growth Analysis in Blood Serum and Tissue Using Xenograft Model with Response to Cold Atmospheric Plasma Activated Medium. Applied Sciences (Switzerland), 2019, 9, 4227.	2.5	26
99	Pulsed high-power microwaves do not impair the functions of skin normal and cancer cells in vitro: A short-term biological evaluation. Journal of Advanced Research, 2020, 22, 47-55.	9.5	26
100	Plasma-assisted nitrogen fixation in water with various metals. Reaction Chemistry and Engineering, 2020, 5, 2053-2057.	3.7	26
101	Cold Atmospheric Plasma and Gold Quantum Dots Exert Dual Cytotoxicity Mediated by the Cell Receptor-Activated Apoptotic Pathway in Glioblastoma Cells. Cancers, 2020, 12, 457.	3.7	26
102	Raman spectroscopic study of plasma-treated salmon DNA. Applied Physics Letters, 2013, 102, 021911.	3.3	25
103	CAP modifies the structure of a model protein from thermophilic bacteria: mechanisms of CAP-mediated inactivation. Scientific Reports, 2018, 8, 10218.	3.3	25
104	The role of non-thermal atmospheric pressure biocompatible plasma in the differentiation of osteoblastic precursor cells, MC3T3-E1. Oncotarget, 2017, 8, 36399-36409.	1.8	25
105	Analysis of Firing Voltage in a Plasma Display Panel of Coplanar Electrodes. Japanese Journal of Applied Physics, 1998, 37, L1178-L1180.	1.5	24
106	Potential Antioxidant Anthraquinones Isolated from <i>Rheum emodi</i> Showing Nematicidal Activity against <i>Meloidogyne incognita</i> . Journal of Chemistry, 2014, 2014, 1-9.	1.9	24
107	Non-thermal atmospheric pressure plasma increased mRNA expression of growth factors in human gingival fibroblasts. Clinical Oral Investigations, 2016, 20, 1801-1808.	3.0	24
108	Evaluation of non-thermal plasma-induced anticancer effects on human colon cancer cells. Biomedical Optics Express, 2017, 8, 2649.	2.9	24

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109	Enhancement in the power of microwaves by the interference with a cone-shaped reflector in an axial vircator. Results in Physics, 2019, 15, 102611.	4.1	24
110	Virucidal Effects of Dielectric Barrier Discharge Plasma on Human Norovirus Infectivity in Fresh Oysters (<i>Crassostrea gigas</i>). Foods, 2020, 9, 1731.	4.3	24
111	Characteristics of diode perveance and vircator output under various anode-cathode gap distances. IEEE Transactions on Plasma Science, 2002, 30, 1728-1732.	1.3	23
112	Effects of the physical parameters of a microwave plasma jet on the inactivation of fungal spores. Thin Solid Films, 2013, 547, 125-131.	1.8	23
113	Synthesis and Anticancer Activity of Di(3-thienyl)methanol and Di(3-thienyl)methane. Molecules, 2012, 17, 11456-11468.	3.8	22
114	Non-thermal plasma jet without electrical shock for biomedical applications. Applied Physics Letters, 2013, 103, .	3.3	22
115	Electron temperature and density of non-thermal atmospheric pressure argon plasma jet by convective wave packet model. Journal of the Korean Physical Society, 2017, 70, 979-989.	0.7	22
116	Treatment of oral hyperpigmentation and gummy smile using lasers and role of plasma as a novel treatment technique in dentistry: An introductory review. Oncotarget, 2017, 8, 20496-20509.	1.8	22
117	Surface modification of PVA thin film by nonthermal atmospheric pressure plasma for antifogging property. AIP Advances, 2019, 9, .	1.3	22
118	CRISPR/Cas9 based genome editing for targeted transcriptional control in triple-negative breast cancer. Computational and Structural Biotechnology Journal, 2021, 19, 2384-2397.	4.1	22
119	Plasma bioscience and its application to medicine. AAPPS Bulletin, 2021, 31, 1.	6.1	22
120	Influence of anode-cathode gap distance on output characteristics of high-power microwave from coaxial virtual cathode oscillator. IEEE Transactions on Plasma Science, 2005, 33, 1353-1357.	1.3	21
121	Electron plasma wave propagation in external-electrode fluorescent lamps. Applied Physics Letters, 2008, 92, 021502.	3.3	21
122	Types of devices used in ridge split procedure for alveolar bone expansion: A systematic review. PLoS ONE, 2017, 12, e0180342.	2.5	21
123	ChIP-seq analysis reveals alteration of H3K4 trimethylation occupancy in cancer-related genes by cold atmospheric plasma. Free Radical Biology and Medicine, 2018, 126, 133-141.	2.9	21
124	Interactions between atmospheric pressure plasma jet and deionized water surface. Results in Physics, 2020, 19, 103569.	4.1	21
125	Plasma treatment causes structural modifications in lysozyme, and increases cytotoxicity towards cancer cells. International Journal of Biological Macromolecules, 2021, 182, 1724-1736.	7.5	21
126	Output-Power Enhancement of Vircator Based on Second Virtual Cathode Formed by Wall Charge on a Dielectric Reflector. IEEE Transactions on Electron Devices, 2022, 69, 2043-2050.	3.0	21

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127	A diode design study of the virtual cathode oscillator with a ring-type reflector. IEEE Transactions on Plasma Science, 2005, 33, 2011-2016.	1.3	20
128	The Effects of Non-Thermal Atmospheric Pressure Plasma treated Titanium Surface on Behaviors of Oral Soft Tissue Cells. Scientific Reports, 2018, 8, 15963.	3.3	20
129	Recent Advances in Pathophysiology, Drug Development and Future Perspectives of SARS-CoV-2. Frontiers in Cell and Developmental Biology, 2020, 8, 580202.	3.7	20
130	Pulsed 3.5ÂGHz high power microwaves irradiation on physiological solution and their biological evaluation on human cell lines. Scientific Reports, 2021, 11, 8475.	3.3	20
131	The effects of non-thermal atmospheric pressure plasma jet on attachment of osteoblast. Current Applied Physics, 2013, 13, S42-S47.	2.4	19
132	Development of ultra-hydrophilic and non-cytotoxic dental vinyl polysiloxane impression materials using a non-thermal atmospheric-pressure plasma jet. Journal Physics D: Applied Physics, 2013, 46, 195201.	2.8	19
133	The protective action of osmolytes on the deleterious effects of gamma rays and atmospheric pressure plasma on protein conformational changes. Scientific Reports, 2017, 7, 8698.	3.3	19
134	Structural modification of NADPH oxidase activator (Noxa 1) by oxidative stress: An experimental and computational study. International Journal of Biological Macromolecules, 2020, 163, 2405-2414.	7.5	19
135	Sterilization of Neurospora Crassa by Noncontacted Low Temperature Atmospheric Pressure Surface Discharged Plasma with Dielectric Barrier Structure. Applied Science and Convergence Technology, 2013, 22, 55-65.	0.9	19
136	Plasma bioscience for medicine, agriculture and hygiene applications. Journal of the Korean Physical Society, 2022, 80, 817-851.	0.7	19
137	Role of Dexamethasone and Methylprednisolone Corticosteroids in Coronavirus Disease 2019 Hospitalized Patients: A Review. Frontiers in Microbiology, 2022, 13, 813358.	3.5	19
138	Antibacterial activity and effect on gingival cells of microwave-pulsed non-thermal atmospheric pressure plasma in artificial saliva. Scientific Reports, 2017, 7, 8395.	3.3	18
139	Characterization of physical and biochemical changes in plasma treated spinach seed during germination. Journal Physics D: Applied Physics, 2018, 51, 145205.	2.8	18
140	Effects of humidity on room disinfection by dielectric barrier discharge plasma. Journal Physics D: Applied Physics, 2019, 52, 425204.	2.8	18
141	Dynamics of nitric oxide level in liquids treated with microwave plasma-generated gas and their effects on spinach development. Scientific Reports, 2019, 9, 1011.	3.3	18
142	A novel approach to form second virtual cathode by installing a floating zone plate inside the drift tube. Results in Physics, 2020, 17, 103052.	4.1	18
143	Phytochemicals from Himalayan Medicinal Plants as Potential Drugs to Treat Multidrug-Resistant SalmonellaÂtymphimurium: An In Silico Approach. Biomedicines, 2021, 9, 1402.	3.2	18
144	Hemorheological alterations of red blood cells induced by non-thermal dielectric barrier discharge plasma. Applied Physics Letters, 2016, 109, .	3.3	17

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145	Effects of reactive oxygen species on the biological, structural, and optical properties of Cordyceps pruinosa spores. RSC Advances, 2016, 6, 30699-30709.	3.6	17
146	Interaction studies of carbon nanomaterials and plasma activated carbon nanomaterials solution with telomere binding protein. Scientific Reports, 2017, 7, 2636.	3.3	17
147	Measurement of electron density in transient spark discharge by simple interferometry. Results in Physics, 2021, 20, 103693.	4.1	17
148	Plasma-synthesized mussel-inspired gold nanoparticles promote autophagy-dependent damage-associated molecular pattern release to potentiate immunogenic cancer cell death. Journal of Industrial and Engineering Chemistry, 2021, 100, 99-111.	5.8	17
149	Generation of reactive species by naturally sucked air in the Ar plasma jet. Results in Physics, 2021, 30, 104863.	4.1	17
150	Nitric-oxide enriched plasma-activated water inactivates 229E coronavirus and alters antiviral response genes in human lung host cells. Bioactive Materials, 2023, 19, 569-580.	15.6	17
151	<p>Gold quantum dots impair the tumorigenic potential of glioma stem-like cells via β-catenin downregulation in vitro</p>. International Journal of Nanomedicine, 2019, Volume 14, 1131-1148.	6.7	16
152	ZNRD1 and Its Antisense Long Noncoding RNA ZNRD1-AS1 Are Oppositely Regulated by Cold Atmospheric Plasma in Breast Cancer Cells. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-9.	4.0	16
153	Anticancer Activity of Liquid Treated with Microwave Plasma-Generated Gas through Macrophage Activation. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	4.0	16
154	Electromagnetic pulse shielding effectiveness of circular multi-waveguides for fluids. Results in Physics, 2020, 16, 102946.	4.1	16
155	Plasma-mediated enhancement of enzyme secretion in Aspergillus oryzae. Microbial Biotechnology, 2021, 14, 262-276.	4.2	16
156	A theoretical model of bulk plasma generated by the electron-cyclotron-resonance mechanism. Physics of Fluids B, 1993, 5, 1902-1910.	1.7	15
157	Dissociation and excitation coefficients of nitrogen molecules and nitrogen monoxide generation. Physics of Plasmas, 2013, 20, .	1.9	15
158	Size-Dependent Photodynamic Anticancer Activity of Biocompatible Multifunctional Magnetic Submicron Particles in Prostate Cancer Cells. Molecules, 2016, 21, 1187.	3.8	15
159	Anti-tumor effects of cold atmospheric pressure plasma on vestibular schwannoma demonstrate its feasibility as an intra-operative adjuvant treatment. Free Radical Biology and Medicine, 2018, 115, 43-56.	2.9	15
160	Influence of oxygen on generation of reactive chemicals from nitrogen plasma jet. Scientific Reports, 2018, 8, 9318.	3.3	15
161	Cocktail of reactive species generated by cold atmospheric plasma: oral administration induces non-small cell lung cancer cell death. Journal Physics D: Applied Physics, 2021, 54, 185202.	2.8	15
162	Study on the Synthesis of ZnO Nanoparticles Using Azadirachta indica Extracts for the Fabrication of a Gas Sensor. Molecules, 2021, 26, 7685.	3.8	15

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163	Phytoconstituents of traditional Himalayan Herbs as potential inhibitors of Human Papillomavirus (HPV-18) for cervical cancer treatment: An In silico Approach. PLoS ONE, 2022, 17, e0265420.	2.5	15
164	Output Characteristics of the Axially Extracted Virtual Cathode Oscillator With a Cathode-Wing. IEEE Transactions on Plasma Science, 2009, 37, 304-310.	1.3	14
165	Plasma Bullet as a Plasma Diffusion Wave-Packet in Plasma Jets. IEEE Transactions on Plasma Science, 2013, 41, 1635-1643.	1.3	14
166	Circular dichroism, surface-enhanced Raman scattering, and spectroscopic ellipsometry studies of chiral polyfluorene-phenylene films. Optical Materials Express, 2016, 6, 767.	3.0	14
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