

# Bhagirath Ghimire

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4906151/publications.pdf>

Version: 2024-02-01

24  
papers

1,181  
citations

471509

17  
h-index

610901

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological and medical applications of plasma-activated media, water and solutions. <i>Biological Chemistry</i> , 2018, 400, 39-62.	2.5	227
2	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
3	Plasma and Nanomaterials: Fabrication and Biomedical Applications. <i>Nanomaterials</i> , 2019, 9, 98.	4.1	92
4	The effect of the gap distance between an atmospheric-pressure plasma jet nozzle and liquid surface on OH and N <sub>2</sub> species concentrations. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	73
5	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
6	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
7	Cold atmospheric plasma and silymarin nanoemulsion synergistically inhibits human melanoma tumorigenesis via targeting HGF/c-MET downstream pathway. <i>Cell Communication and Signaling</i> , 2019, 17, 52.	6.5	58
8	Enhancement of hydrogen peroxide production from an atmospheric pressure argon plasma jet and implications to the antibacterial activity of plasma activated water. <i>Plasma Sources Science and Technology</i> , 2021, 30, 035009.	3.1	58
9	Preventing the Solid Cancer Progression via Release of Anticancer-Cytokines in Co-Culture with Cold Plasma-Stimulated Macrophages. <i>Cancers</i> , 2019, 11, 842.	3.7	56
10	Sustainable nitrogen fixation from synergistic effect of photo-electrochemical water splitting and atmospheric pressure N <sub>2</sub> plasma. <i>Plasma Sources Science and Technology</i> , 2020, 29, 045026.	3.1	45
11	An atmospheric pressure plasma jet operated by injecting natural air. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	43
12	Cold atmospheric plasma generated reactive species aided inhibitory effects on human melanoma cells: an in vitro and in silico study. <i>Scientific Reports</i> , 2020, 10, 3396.	3.3	43
13	Scavenging effects of ascorbic acid and mannitol on hydroxyl radicals generated inside water by an atmospheric pressure plasma jet. <i>AIP Advances</i> , 2018, 8, .	1.3	39
14	Cold Atmospheric Plasma and Silymarin Nanoemulsion Activate Autophagy in Human Melanoma Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1939.	4.1	38
15	Enhancing the power of high power microwaves by using zone plate and investigations for the position of virtual cathode inside the drift tube. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	34
16	Control of hydrogen peroxide production in plasma activated water by utilizing nitrification. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 265206.	2.8	30
17	Electron temperature and density of non-thermal atmospheric pressure argon plasma jet by convective wave packet model. <i>Journal of the Korean Physical Society</i> , 2017, 70, 979-989.	0.7	22
18	On-demand cold plasma activation of acetyl donors for bacteria and virus decontamination. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	18

#	ARTICLE	IF	CITATIONS
19	Measurement of electron density in transient spark discharge by simple interferometry. Results in Physics, 2021, 20, 103693.	4.1	17
20	Improvement of wettability and absorbancy of textile using atmospheric pressure dielectric barrier discharge. AIP Advances, 2017, 7, 085213.	1.3	15
21	The influence of a second ground electrode on hydrogen peroxide production from an atmospheric pressure argon plasma jet and correlation to antibacterial efficacy and mammalian cell cytotoxicity. Journal Physics D: Applied Physics, 2022, 55, 125207.	2.8	13
22	Coagulation, deformability, and aggregation of RBCs and platelets following exposure to dielectric barrier discharge plasma with the use of different feeding gases. Journal Physics D: Applied Physics, 2019, 52, 155202.	2.8	11
23	Influence of plasma-generated reactive species on the plasmid DNA structure and plasmid-mediated transformation of Escherichia colicells. Journal of Applied Physics, 2017, 122, 103303.	2.5	10
24	Cold plasma generation of peracetic acid for antimicrobial applications. Plasma Medicine, 2022, , .	0.6	1