

Gaurav Nayak

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

413
citations

759233

12
h-index

940533

16
g-index

21
all docs

21
docs citations

21
times ranked

420
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive species responsible for the inactivation of feline calicivirus by a two-dimensional array of integrated coaxial microhollow dielectric barrier discharges in air. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700119.	3.0	56
2	Inactivation of virus and bacteria using cold atmospheric pressure air plasmas and the role of reactive nitrogen species. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 434004.	2.8	48
3	Non-Thermal Plasma as a Novel Strategy for Treating or Preventing Viral Infection and Associated Disease. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	38
4	Effect of water vapor on plasma morphology, OH and H_2O_2 production in He and Ar atmospheric pressure dielectric barrier discharges. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 145201.	2.8	36
5	Rapid inactivation of airborne porcine reproductive and respiratory syndrome virus using an atmospheric pressure air plasma. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900269.	3.0	34
6	Controlled plasma-droplet interactions: a quantitative study of OH transfer in plasma-liquid interaction. <i>Plasma Sources Science and Technology</i> , 2020, 29, 095002.	3.1	34
7	Impact of plasma reactive species on the structure and functionality of pea protein isolate. <i>Food Chemistry</i> , 2022, 371, 131135.	8.2	31
8	Effect of air flow on the micro-discharge dynamics in an array of integrated coaxial microhollow dielectric barrier discharges. <i>Plasma Sources Science and Technology</i> , 2017, 26, 035001.	3.1	24
9	Singlet delta oxygen production in a 2D micro-discharge array in air: effect of gas residence time and discharge power. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 105205.	2.8	24
10	Bactericidal Efficacy of a Two-Dimensional Array of Integrated, Coaxial, Microhollow, Dielectric Barrier Discharge Plasma Against <i>Salmonella enterica</i> Serovar Heidelberg. <i>Foodborne Pathogens and Disease</i> , 2020, 17, 157-165.	1.8	18
11	$He(2^3S_1)$ and $He(2^3P_1)$ absorption spectroscopy. <i>Plasma Sources Science and Technology</i> , 2019, 28, 125006.	3.1	16
12	Emission considering self-absorption of OH to simultaneously obtain the OH density and gas temperature: validation, non-equilibrium effects and limitations. <i>Plasma Sources Science and Technology</i> , 2017, 26, 095007.	3.1	14
13	Characterization of an RF-driven argon plasma at atmospheric pressure using broadband absorption and optical emission spectroscopy. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	14
14	Plasma-droplet interaction study to assess transport limitations and the role of OH, O_2 , H_2O_2 , $O_2(a^1\Sigma_g^+)$, O_3 , $He(2^3S)$ and $Ar(1s_5)$ in formate decomposition. <i>Plasma Sources Science and Technology</i> , 2021, 30, 115003.	3.1	10
15	Experimental and modeling studies of the plasma chemistry in a humid Ar radiofrequency atmospheric pressure plasma jet. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 225206.	2.8	8
16	Comparative evaluation of the virucidal effect of remote and direct cold air plasmas with UV-C. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900234.	3.0	7
17	Inactivation of feline calicivirus by an atmospheric pressure 2D microdischarge array in air. , 2016, , .		1
18	Investigation of an atmospheric pressure 2D-array of microdischarges in air using cross-correlation spectroscopy. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Micro-water droplets in non-equilibrium atmospheric pressure plasma: Evaporation and OH induced chemistry. , 2016, , .		0
20	Reactive Species Transport To Water Micro-Droplets In Atmospheric Pressure Rf Glow Discharges. , 2021, , .		0
21	Laser-Induced Fluorescence Measurement of Water Vapor and OH Density Distributions Near Droplets in a Plasma. , 2022, , .		0