

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	Impact of plasma reactive species on the structure and functionality of pea protein isolate. Food Chemistry, 2022, 371, 131135.	8.2	31
2	Experimental and modeling studies of the plasma chemistry in a humid Ar radiofrequency atmospheric pressure plasma jet. Journal Physics D: Applied Physics, 2022, 55, 225206.	2.8	8
3	Laser-Induced Fluorescence Measurement of Water Vapor and OH Density Distributions Near Droplets in a Plasma. , 2022, , .		0
4	Non-Thermal Plasma as a Novel Strategy for Treating or Preventing Viral Infection and Associated Disease. Frontiers in Physics, 2021, 9, .	2.1	38
5	Plasma-droplet interaction study to assess transport limitations and the role of OH , O , H , O_2 ($\text{a}^{1\text{g}}$), O_3 , $\text{He}(2^3\text{S})$ and $\text{Ar}(1\text{s}^5)$ in formate decomposition. Plasma Sources Science and Technology, 2021, 30, 115003.	3.1	10
6	Reactive Species Transport To Water Micro-Droplets In Atmospheric Pressure Rf Glow Discharges. , 2021, , .		0
7	Bactericidal Efficacy of a Two-Dimensional Array of Integrated, Coaxial, Microhollow, Dielectric Barrier Discharge Plasma Against Salmonella enterica Serovar Heidelberg. Foodborne Pathogens and Disease, 2020, 17, 157-165.	1.8	18
8	Inactivation of virus and bacteria using cold atmospheric pressure air plasmas and the role of reactive nitrogen species. Journal Physics D: Applied Physics, 2020, 53, 434004.	2.8	48
9	Rapid inactivation of airborne porcine reproductive and respiratory syndrome virus using an atmospheric pressure air plasma. Plasma Processes and Polymers, 2020, 17, 1900269.	3.0	34
10	Comparative evaluation of the virucidal effect of remote and direct cold air plasmas with UV-C. Plasma Processes and Polymers, 2020, 17, 1900234.	3.0	7
11	Characterization of an RF-driven argon plasma at atmospheric pressure using broadband absorption and optical emission spectroscopy. Journal of Applied Physics, 2020, 128, .	2.5	14
12	Controlled plasma-droplet interactions: a quantitative study of OH transfer in plasma-liquid interaction. Plasma Sources Science and Technology, 2020, 29, 095002.	3.1	34
13	$\text{He}(2^3\text{S})$ and $\text{He}(2^1\text{S})$ (a^3u) Tj ETQq1 1 0.784314 rgB absorption spectroscopy. Plasma Sources Science and Technology, 2019, 28, 125006.	3.1	16
14	Reactive species responsible for the inactivation of feline calicivirus by a two-dimensional array of integrated coaxial microhollow dielectric barrier discharges in air. Plasma Processes and Polymers, 2018, 15, 1700119.	3.0	56
15	Effect of air flow on the micro-discharge dynamics in an array of integrated coaxial microhollow dielectric barrier discharges. Plasma Sources Science and Technology, 2017, 26, 035001.	3.1	24
16	Effect of water vapor on plasma morphology, OH and H_2O_2 production in He and Ar atmospheric pressure dielectric barrier discharges. Journal Physics D: Applied Physics, 2017, 50, 145201.	2.8	36
17	Singlet delta oxygen production in a 2D micro-discharge array in air: effect of gas residence time and discharge power. Journal Physics D: Applied Physics, 2017, 50, 105205.	2.8	24
18	Emission considering self-absorption of OH to simultaneously obtain the OH density and gas temperature: validation, non-equilibrium effects and limitations. Plasma Sources Science and Technology, 2017, 26, 095007.	3.1	14

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19	Inactivation of feline calicivirus by an atmospheric pressure 2D microdischarge array in air. , 2016, , .		1
20	Investigation of an atmospheric pressure 2D-array of microdischarges in air using cross-correlation spectroscopy. , 2016, , .		0
21	Micro-water droplets in non-equilibrium atmospheric pressure plasma: Evaporation and OH induced chemistry. , 2016, , .		0