

Vighneswara Siva Santosh Kumar Kond

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

431
citations

840776

11
h-index

1058476

14
g-index

16
all docs

16
docs citations

16
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-lived and short-lived reactive species produced by a cold atmospheric pressure plasma jet for the inactivation of <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> . <i>Free Radical Biology and Medicine</i> , 2018, 124, 275-287.	2.9	127
2	Ag ⁺ reduction and silver nanoparticle synthesis at the plasma-liquid interface by an RF driven atmospheric pressure plasma jet: Mechanisms and the effect of surfactant. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	2.1	86
3	Comparative toxicity assessment of novel Si quantum dots and their traditional Cd-based counterparts using bacteria models <i>Shewanella oneidensis</i> and <i>Bacillus subtilis</i> . <i>Environmental Science: Nano</i> , 2018, 5, 1890-1901.	4.3	37
4	Model polymer etching and surface modification by a time modulated RF plasma jet: role of atomic oxygen and water vapor. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 03LT02.	2.8	36
5	Cold Atmospheric Pressure Plasma VUV Interactions With Surfaces: Effect of Local Gas Environment and Source Design. <i>Plasma Processes and Polymers</i> , 2016, 13, 1069-1079.	3.0	22
6	Effect of water vapor on plasma processing at atmospheric pressure: Polymer etching and surface modification by an Ar/H ₂ O plasma jet. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	21
7	O ⁺ , H ⁺ , and OH radical etching probability of polystyrene obtained for a radio frequency driven atmospheric pressure plasma jet. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	2.1	17
8	Spatially and temporally resolved H and OH densities in a nanosecond pulsed plasma jet: an analysis of the radical generation, transport, recombination and memory effects. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 115202.	2.8	17
9	Luminescent, water-soluble silicon quantum dots via micro-plasma surface treatment. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 08LT02.	2.8	14
10	Penetration of Ar and He RF-driven plasma jets into micrometer-sized capillary tubes. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 414002.	2.8	14
11	Plasma dynamics, instabilities and OH generation in a pulsed atmospheric pressure plasma with liquid cathode: a diagnostic study. <i>Plasma Sources Science and Technology</i> , 2022, 31, 025008.	3.1	13
12	The interaction of an atmospheric pressure plasma jet with liquid water: dimple dynamics and its impact on crystal violet decomposition. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 045204.	2.8	11
13	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
14	Production and diffusion of H ₂ O ₂ during the interaction of a direct current pulsed atmospheric pressure plasma jet on a hydrogel. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 185201.	2.8	7
15	Mechanism of bacteria inactivation by an atmospheric pressure plasma jet. , 2016, , .		1
16	Development of a Chronic Wound Healing Device1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016, 10, .	0.7	0