

Ahmad Hamdan

List of Publications by Year in descending order

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61
papers

792
citations

471371

17
h-index

580701

25
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61
all docs

61
docs citations

61
times ranked

566
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of discharges with electrode surfaces in dielectric liquids: application to nanoparticle synthesis. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 224016.	1.3	66
2	Investigations on AlN/sapphire piezoelectric bilayer structure for high-temperature SAW applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 999-1005.	1.7	64
3	Ignition modes of nanosecond discharge with bubbles in distilled water. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 405206.	1.3	34
4	The effects of gaseous bubble composition and gap distance on the characteristics of nanosecond discharges in distilled water. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 245203.	1.3	32
5	Comparison of Aluminium Nanostructures Created by Discharges in Various Dielectric Liquids. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 1101-1114.	1.1	29
6	Impacts created on various materials by micro-discharges in heptane: Influence of the dissipated charge. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	28
7	Influence of surrounding gas, composition and pressure on plasma plume dynamics of nanosecond pulsed laser-induced aluminum plasmas. <i>AIP Advances</i> , 2015, 5, .	0.6	27
8	Synthesis of platinum embedded in amorphous carbon by micro-gap discharge in heptane. <i>Materials Chemistry and Physics</i> , 2013, 142, 199-206.	2.0	26
9	Microwave Plasma Jet in Water: Characterization and Feasibility to Wastewater Treatment. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 1003-1020.	1.1	25
10	Synthesis of nickel and cobalt oxide nanoparticles by pulsed underwater spark discharges. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	23
11	Time-resolved imaging of nanosecond-pulsed micro-discharges in heptane. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 055203.	1.3	22
12	The effect of electrical conductivity on nanosecond discharges in distilled water and in methanol with argon bubbles. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 185207.	1.3	22
13	Synthesis of two-dimensional lead sheets by spark discharge in liquid nitrogen. <i>Particuology</i> , 2018, 40, 152-159.	2.0	22
14	Microwave Plasma Jet in Water: Effect of Water Electrical Conductivity on Plasma Characteristics. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 169-185.	1.1	21
15	Synthesis of copper and copper oxide nanomaterials by electrical discharges in water with various electrical conductivities. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	21
16	In-liquid arc plasma jet and its application to phenol degradation. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 114005.	1.3	18
17	Characterization of Various Air Plasma Discharge Modes in Contact with Water and Their Effect on the Degradation of Reactive Dyes. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 1483-1498.	1.1	18
18	Dynamics of bubbles created by plasma in heptane for micro-gap conditions. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 991-1000.	0.5	17

#	ARTICLE	IF	CITATIONS
19	Plasma-surface interaction in heptane. <i>Journal of Applied Physics</i> , 2013, 113, 213303.	1.1	16
20	Electrical characterization of positive and negative pulsed nanosecond discharges in water coupled with time-resolved light detection. <i>Journal of Applied Physics</i> , 2020, 128, 033304.	1.1	13
21	Pulsed nanosecond air discharge in contact with water: influence of voltage polarity, amplitude, pulse width, and gap distance. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 355202.	1.3	13
22	Time and space-resolved imaging of an AC air discharge in contact with water. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 425209.	1.3	13
23	Time-resolved imaging of pulsed positive nanosecond discharge on water surface: plasma dots guided by water surface. <i>Plasma Sources Science and Technology</i> , 2020, 29, 115017.	1.3	13
24	Carbon-based nanomaterial synthesis using nanosecond electrical discharges in immiscible layered liquids: n-heptane and water. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 244003.	1.3	12
25	Nanosecond Discharge in Bubbled Liquid n-Heptane: Effects of Gas Composition and Water Addition. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 2988-2994.	0.6	10
26	Synthesis of SiOC:H nanoparticles by electrical discharge in hexamethyldisilazane and water. <i>Plasma Processes and Polymers</i> , 2017, 14, 1700089.	1.6	10
27	Characterization of a microwave plasma jet (TIAGO) in contact with water: Application in degradation of methylene blue dye. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900157.	1.6	10
28	Determination of the Electrical Circuit Equivalent to a Pulsed Discharge in Water: Assessment of the Temporal Evolution of Electron Density and Temperature. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 3193-3202.	0.6	10
29	Dynamics of a pulsed negative nanosecond discharge on water surface and comparison with the positive discharge. <i>Journal of Physics Communications</i> , 2021, 5, 035005.	0.5	9
30	Synthesis of core-shell copper-graphite submicronic particles and carbon nano-onions by spark discharges in liquid hydrocarbons. <i>Scientific Reports</i> , 2021, 11, 7516.	1.6	9
31	Influence of voltage and gap distance on the dynamics of the ionization front, plasma dots, produced by nanosecond pulsed discharges at water surface. <i>Plasma Sources Science and Technology</i> , 2022, 31, 045006.	1.3	9
32	Interaction of micro-discharges in heptane with metallic multi-layers. <i>Applied Surface Science</i> , 2013, 274, 378-391.	3.1	8
33	Low-dielectric layer increases nanosecond electric discharges in distilled water. <i>AIP Advances</i> , 2016, 6, 105112.	0.6	8
34	Synthesis of Copper and Copper Oxide Nanomaterials by Pulsed Electric Field in Water with Various Electrical Conductivities. <i>Nanomaterials</i> , 2020, 10, 1347.	1.9	8
35	Selective Synthesis of 2D Mesoporous CuO Agglomerates by Pulsed Spark Discharge in Water. <i>Plasma Chemistry and Plasma Processing</i> , 2021, 41, 433-445.	1.1	8
36	Reliability of AlN/sapphire bilayer structure for high-temperature SAW applications. , 2010, , .		7

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37	Streamer-Surface Interaction in Heptane with Micro-Gaps. <i>Advanced Materials Research</i> , 0, 324, 89-92.	0.3	7
38	Transformation of <i>n</i> -heptane using an in-liquid submerged microwave plasma jet of argon. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	7
39	Atomic scale microscopy unveils the growth mechanism of 2D-like CuO nanoparticle agglomerates produced via electrical discharges in water. <i>Materials Chemistry and Physics</i> , 2021, 261, 124244.	2.0	7
40	Synthesis of Silicon and Silicon Carbide Nanoparticles by Pulsed Electrical Discharges in Dielectric Liquids. <i>Plasma Chemistry and Plasma Processing</i> , 2021, 41, 1647-1660.	1.1	7
41	Axial- and radial-resolved electron density and excitation temperature of aluminum plasma induced by nanosecond laser: Effect of the ambient gas composition and pressure. <i>AIP Advances</i> , 2015, 5, 117136.	0.6	5
42	Electrical and optical characterization of a pulsed discharge in immiscible layered liquids: n-heptane and water with various electrical conductivities. <i>Plasma Sources Science and Technology</i> , 2021, 30, 055021.	1.3	5
43	Spark discharges in liquid heptane in contact with silver nitrate solution: Investigation of the synthesized particles. <i>Plasma Processes and Polymers</i> , 2021, 18, 2100083.	1.6	5
44	Statistical analysis of pulsed discharges in dielectric liquid: effects of voltage amplitude, pulse width, electrode configuration, and liquid composition. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 485201.	1.3	5
45	Interaction of Discharges in Heptane with Silicon Covered by a Carpet of Carbon Nanotubes. <i>Advanced Engineering Materials</i> , 2013, 15, 885-892.	1.6	4
46	Microdischarge Ignition in Liquid Heptane. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2616-2617.	0.6	4
47	Synthesis of carbon fibres by electrical discharges in heptane. <i>Materials Letters</i> , 2014, 135, 115-118.	1.3	4
48	Combined SIMS and AFM study of complex structures of streamers on metallic multilayers. <i>Surface and Interface Analysis</i> , 2014, 46, 397-400.	0.8	4
49	Synthesis of Carbon-Metal Multi-Strand Nanocomposites by Discharges in Heptane Between Two Metallic Electrodes. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 1069-1090.	1.1	4
50	Space and time structure of helium pulsed surface-wave discharges at intermediate pressures (5-50 Torr). <i>Journal of Applied Physics</i> , 2017, 122, .	1.3	4
51	Nanoparticle synthesis by high-density plasma sustained in liquid organosilicon precursors. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	4
52	Statistical analysis of pulsed spark discharges in water: Effects of gap distance, electrode material, and voltage polarity on discharge characteristics. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	3
53	Characterization of helium surface-wave plasmas at intermediate pressures (5-50 Torr): temperatures and density of metastable atoms in the 2^3 level. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 035202.	1.3	2
54	Characterization by laser-induced photodetachment of anions formed during dust particle growth in a magnetically confined very low-pressure argon-acetylene plasma. <i>Plasma Sources Science and Technology</i> , 2017, 26, 085001.	1.3	2

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55	Scenario of carbon-encapsulated particle synthesis by spark discharges in liquid hydrocarbons. Plasma Processes and Polymers, 2021, 18, 2100013.	1.6	2
56	AC Discharges in Contact With Water Solutions of Varying Electrical Conductivity: Characterization of Electrical and Optical Properties. IEEE Transactions on Plasma Science, 2022, 50, 2215-2224.	0.6	2
57	Synthesis of amorphous hydrogenated carbon thin films by magnetized radio-frequency discharge in argon-acetylene mixture at very low gas pressure. Thin Solid Films, 2016, 599, 84-97.	0.8	1
58	Simplified Spark Pulser for Nanoparticles Generation. IEEE Transactions on Plasma Science, 2020, 48, 3656-3662.	0.6	1
59	Production of SiC Nanoparticles in Carbon Network by Pulsed Electrical Discharges in Liquid Hexamethyldisilazane with Gaseous Bubbles. Plasma Chemistry and Plasma Processing, 2022, 42, 605.	1.1	1
60	Influence of electrodes nature on the electrical characteristics of spark discharges in water. , 2021, , .		1
61	Pulsed Spark Discharge in Deionized Water for Nanoparticle Synthesis: Electrical Measurement and Cavitation Bubble Study. , 2021, , .		0