CÃ©dric NoÃ«l

List of Publications by Year
in descending order

48 papers	859 citations	516561 16 h-index	526166 27 g-index
48 all docs	48 docs citations	48 times ranked	852 citing authors

#	Article	IF	Citations
1	Interaction of discharges with electrode surfaces in dielectric liquids: application to nanoparticle synthesis. Journal Physics D: Applied Physics, 2014, 47, 224016.	1.3	66
2	Delay in micro-discharges appearance during PEO of Al: Evidence of a mechanism of charge accumulation at the electrolyte/oxide interface. Applied Surface Science, 2017, 410, 29-41.	3.1	65
3	Theoretical background of optical emission spectroscopy for analysis of atmospheric pressure plasmas. Plasma Sources Science and Technology, 2015, 24, 064003.	1.3	56
4	Correlations between gaseous and liquid phase chemistries induced by cold atmospheric plasmas in a physiological buffer. Physical Chemistry Chemical Physics, 2018, 20, 9198-9210.	1.3	56
5	A study of helium atmospheric-pressure guided streamers for potential biological applications. Plasma Sources Science and Technology, 2013, 22, 025020.	1.3	43
6	Surface Charge at the Oxide/Electrolyte Interface: Toward Optimization of Electrolyte Composition for Treatment of Aluminum and Magnesium by Plasma Electrolytic Oxidation. Langmuir, 2016, 32, 1405-1409.	1.6	42
7	Microwave capillary plasmas in helium at atmospheric pressure. Journal Physics D: Applied Physics, 2014, 47, 265201.	1.3	30
8	Comparison of Aluminium Nanostructures Created by Discharges in Various Dielectric Liquids. Plasma Chemistry and Plasma Processing, 2014, 34, 1101-1114.	1.1	29
9	Interaction Mechanisms Between Arâ€“O2 Post-Discharge and Stearic Acid I: Behaviour of Thin Films. Plasma Chemistry and Plasma Processing, 2011, 31, 189-203.	1.1	28
10	Impacts created on various materials by micro-discharges in heptane: Influence of the dissipated charge. Journal of Applied Physics, 2013, 113, .	1.1	28
11	Synthesis of platinum embedded in amorphous carbon by micro-gap discharge in heptane. Materials Chemistry and Physics, 2013, 142, 199-206.	2.0	26
12	Synthesis of Cu@ZnO coreâ€“shell nanoparticles by spark discharges in liquid nitrogen. Nano Structures Nano Objects, 2017, 10, 22-29.	1.9	26
13	Filamentation in argon microwave plasma at atmospheric pressure. Journal of Applied Physics, 2009, 105, .	1.1	25
14	Synthesis of two-dimensional lead sheets by spark discharge in liquid nitrogen. Particuology, 2018, 40, 152-159.	2.0	22
15	The evidence of cathodic micro-discharges during plasma electrolytic oxidation process. Applied Physics Letters, 2014, 104, .	1.5	21
16	Interaction Mechanisms between Arï¿O₂ Postâ€discharge and Biphenyl. Plasma Processes and Polymers, 2012, 9, 207-216.	1.6	17
17	Dynamics of bubbles created by plasma in heptane for micro-gap conditions. Journal of the Acoustical Society of America, 2013, 134, 991-1000.	0.5	17
18	Plasma-surface interaction in heptane. Journal of Applied Physics, 2013, 113, 213303.	1.1	16

#	Article	IF	Citations
19	Synthesis of nanocrystals by discharges in liquid nitrogen from Siâ€“Sn sintered electrode. Scientific Reports, 2015, 5, 17477.	1.6	16
20	Effects of Arâ€“H2â€“N2 microwave plasma on chitosan and its nanoliposomes blend thin films designed for tissue engineering applications. Carbohydrate Polymers, 2013, 93, 401-411.	5.1	15
21	Optical investigation of the behavior of the electric arc and the metal transfer during vacuum remelting of a Ti alloy. Journal of Materials Processing Technology, 2014, 214, 2268-2275.	3.1	15
22	Tuning the afterglow plasma composition in Ar/N₂/O₂mixtures: characteristics of a flowing surface-wave microwave discharge system. Plasma Sources Science and Technology, 2016, 25, 055014.	1.3	15
23	Evidence of alloy formation in CoNi nanoparticles synthesized by nanosecondâ€pulsed discharges in liquid nitrogen. Plasma Processes and Polymers, 2020, 17, 1900255.	1.6	14
24	Synergistic Effect of Plasma and Laser Processes in Liquid for Alloyed-Nanoparticle Synthesis. Physical Review Applied, 2020, 13, .	1.5	13
25	Interaction Mechanisms Between Arâ€“O2 Post-Discharge and Stearic Acid II: Behaviour of Thick Films. Plasma Chemistry and Plasma Processing, 2011, 31, 205-215.	1.1	12
26	Interaction of (3-Aminopropyl)triethoxysilane with Pulsed Arâ€“O2 Afterglow: Application to Nanoparticles Synthesis. Plasma Chemistry and Plasma Processing, 2016, 36, 1031-1050.	1.1	12
27	Synthesis of copper and zinc nanostructures by discharges in liquid nitrogen. Materials Chemistry and Physics, 2018, 207, 350-358.	2.0	12
28	Comparison between hexatriacontane and stearic acid behaviours under late Arâ€•O2 post-discharge. Surface and Coatings Technology, 2011, 205, S443-S446.	2.2	11
29	Nano-objects synthesized from Cu, Ag and Cu28Ag72 electrodes by submerged discharges in liquid nitrogen. Materials Chemistry and Physics, 2018, 217, 371-378.	2.0	11
30	Synthesis of Ag and Cd nanoparticles by nanosecond-pulsed discharge in liquid nitrogen. Frontiers of Chemical Science and Engineering, 2019, 13, 360-368.	2.3	11
31	Interaction of Stearic Acid Deposited on Silicon Samples With Ar/N₂ and Ar/O₂ Atmospheric Pressure Microwave Postâ€discharges. Plasma Processes and Polymers, 2009, 6, S187.	1.6	9
32	Analysis of Zn I emission lines observed during a spark discharge in liquid nitrogen for zinc nanosheet synthesis. Plasma Sources Science and Technology, 2018, 27, 074004.	1.3	9
33	Interaction of micro-discharges in heptane with metallic multi-layers. Applied Surface Science, 2013, 274, 378-391.	3.1	8
34	Synthesis of nanomaterials by electrode erosion using discharges in liquids. Journal of Applied Physics, 2021, 130, .	1.1	8
35	Streamer-Surface Interaction in Heptane with Micro-Gaps. Advanced Materials Research, 0, 324, 89-92.	0.3	7
36	Microwave plasmas at atmospheric pressure: theoretical insight and applications in surface treatment. EPJ Applied Physics, 2008, 42, 41-46.	0.3	6

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37	Interaction of (3-Aminopropyl)triethoxysilane With Late Arï£¿N₂ Afterglow: Application to Nanoparticles Synthesis. Plasma Processes and Polymers, 2016, 13, 698-710.	1.6	6
38	Diagnosing the plasma formed during acoustic cavitation in [BEPip][NTf2] ionic liquid. Physical Chemistry Chemical Physics, 2019, 21, 1183-1189.	1.3	6
39	Influence of Plasma Chamber Setâ€Up on the Surface Modification of Nonâ€Vulcanized and Pure SBR Rubber Treated at Radioâ€Frequencies Air Plasma. Plasma Processes and Polymers, 2015, 12, 1139-1152.	1.6	5
40	Interaction of Discharges in Heptane with Silicon Covered by a Carpet of Carbon Nanotubes. Advanced Engineering Materials, 2013, 15, 885-892.	1.6	4
41	Synthesis of carbon fibres by electrical discharges in heptane. Materials Letters, 2014, 135, 115-118.	1.3	4
42	Combined SIMS and AFM study of complex structures of streamers on metallic multilayers. Surface and Interface Analysis, 2014, 46, 397-400.	0.8	4
43	Characterization of the behaviour of the electric arc during VAR of a Ti alloy. IOP Conference Series: Materials Science and Engineering, 2016, 143, 012011.	0.3	3
44	Inspection of contamination in nitrogen plasmas by monitoring the temporal evolution of the UV bands of NO-Î³ and of the fourth positive system of N2. Journal of Applied Physics, 2021, 130, 173304.	1.1	3
45	Sub-micro a-C:H patterning of silicon surfaces assisted by atmospheric-pressure plasma-enhanced chemical vapor deposition. Journal Physics D: Applied Physics, 2016, 49, 445306.	1.3	2
46	Alloying nanoparticles by discharges in liquids: a quest for metastability. Plasma Physics and Controlled Fusion, 2022, 64, 014003.	0.9	2
47	Study by Optical Spectroscopy of Bismuth Emission in a Nanosecond-Pulsed Discharge Created in Liquid Nitrogen. Molecules, 2021, 26, 7403.	1.7	2
48	Etching of iron and ironâ€“chromium alloys using ICP-RIE chlorine plasma. Plasma Sources Science and Technology, 2021, 30, 095022.	1.3	1