JÃ©rÃ´me Rossignol

List of Publications by Year
in descending order

49 papers	798 citations	567281 15 h-index	526287 27 g-index
50 all docs	50 docs citations	50 times ranked	789 citing authors

#	Article	IF	Citations
1	Real-Time Detection of Phenylacetaldehyde in Wine: Application of a Microwave Sensor Based on Molecularly Imprinted Silica. Molecules, 2022, 27, 1492.	3.8	2
2	From microwave gas sensor conditioning to ammonia concentration prediction by machine learning. Sensors and Actuators B: Chemical, 2022, 367, 132138.	7.8	6
3	Passive Resonant Sensors: Trends and Future Prospects. IEEE Sensors Journal, 2021, 21, 12618-12632.	4.7	29
4	Detection of organoleptic faults in wine by microwave sensor coupled with molecularly imprinted silica. , 2021, , .		0
5	A First Tentative for Simultaneous Detection of Fungicides in Model and Real Wines by Microwave Sensor Coupled to Molecularly Imprinted Sol-Gel Polymers. Sensors, 2020, 20, 6224.	3.8	5
6	Critical Influence of Dielectric Sensitive Material and Manufactured Process in Microwave Gas-Sensing: Application of Ammonia Detection with an Interdigital Sensor. ACS Omega, 2020, 5, 11507-11514.	3.5	16
7	Feasibility of a microwave liquid sensor based on molecularly imprinted sol-gel polymer for the detection of iprodione fungicide. Sensors and Actuators B: Chemical, 2017, 244, 24-30.	7.8	22
8	Microstrip Spiral Resonator For Microwave-Based Gas Sensing. , 2017, 1, 1-4.		31
9	NAP-XPS Study of Ethanol Adsorption on TiO2 Surfaces and Its Impact on Microwave-Based Gas Sensors Response. Proceedings (mdpi), 2017, 1, .	0.2	3
10	Microwave microscopy applied to EMC problem: Visualisation of electromagnetic field in the vicinity of electronic circuit and effect of nanomaterial coating. Advanced Electromagnetics, 2017, 6, 33.	1.0	1
11	Influence of the Design in Microwave-based Gas Sensors: Ammonia Detection with Titania Nanoparticles. Procedia Engineering, 2016, 168, 264-267.	1.2	15
12	In situ Pesticide Detection in Food Processing by Microwave Transduction Combined with Molecularly Imprinted Polymers. Procedia Engineering, 2016, 168, 550-552.	1.2	1
13	Microwave Gas Sensing with Hematite: Shape Effect on Ammonia Detection Using Pseudocubic, Rhombohedral, and Spindlelike Particles. ACS Sensors, 2016, 1, 656-662.	7.8	32
14	Microwave gas sensing with a microstrip interDigital capacitor: Detection of NH3 with TiO2 nanoparticles. Sensors and Actuators B: Chemical, 2016, 236, 554-564.	7.8	72
15	Determination of burn depth in the ablation of atrial fibrillation using an open-ended coaxial probe. Sensors and Actuators B: Chemical, 2015, 209, 1097-1101.	7.8	4
16	Detection of VOCs by microwave transduction using dealuminated faujasite DAY zeolites as gas sensitive materials. Sensors and Actuators B: Chemical, 2015, 213, 558-565.	7.8	33
17	Shape-controlled Synthesis of Hematite for Microwave Gas Sensing. Procedia Engineering, 2015, 120, 764-768.	1.2	5
18	Microwave signature for gas sensing: 2005 to present. Urban Climate, 2015, 14, 502-515.	5.7	16

#	Article	IF	Citations
19	VOCs Detection by Microwave Transduction Using Zeolites as Sensitive Material. Procedia Engineering, 2014, 87, 1019-1022.	1.2	5
20	Metal Oxide Nanoparticles Obtained by Microwave Synthesis and Application in Gas Sensing by Microwave Transduction. Key Engineering Materials, 2014, 605, 299-302.	0.4	2
21	Assessment of Burn Depths on Organs by Microwave. Procedia Engineering, 2014, 87, 308-311.	1.2	6
22	Microwave-based gas sensor with phthalocyanine film at room temperature. Sensors and Actuators B: Chemical, 2013, 189, 213-216.	7.8	48
23	The multimodal detection as a tool for molecular material-based gas sensing. Sensors and Actuators B: Chemical, 2013, 187, 204-208.	7.8	6
24	Deposition and production of highly reproducible hybrid Cu[(<i>t</i>Bu)₄Pc]â€polystyrene thin layers via spin casting. Polymer Engineering and Science, 2013, 53, 524-530.	3.1	3
25	Rhombohedral and pseudocubic nanocrystals of hematite were obtained via a low cost and environmentally friendly microwave route. Annales De Chimie: Science Des Materiaux, 2013, 38, 215-221.	0.4	0
26	Development of Gas Sensors by Microwave Transduction with Phthalocyanine Film. Procedia Engineering, 2012, 47, 1191-1194.	1.2	6
27	Non-destructive technique to detect local buried defects in metal sample by scanning microwave microscopy. Sensors and Actuators A: Physical, 2012, 186, 219-222.	4.1	6
28	Imaging of Located Buried Defects in Metal Samples by an Scanning Microwave Microscopy. Procedia Engineering, 2011, 25, 1637-1640.	1.2	2
29	Differential study of substituted and unsubstituted cobalt phthalocyanines for gas sensor applications. Sensors and Actuators B: Chemical, 2011, 159, 163-170.	7.8	70
30	Enhanced chemosensing of ammonia based on the novel molecular semiconductor-doped insulator (MSDI) heterojunctions. Sensors and Actuators B: Chemical, 2011, 155, 165-173.	7.8	38
31	Development of microwave gas sensors. Sensors and Actuators B: Chemical, 2011, 157, 374-379.	7.8	56
32	Detection of defects buried in metallic samples by scanning microwave microscopy. Physical Review B, 2011, 83, .	3.2	81
33	Broadband microwave gas sensor: A coaxial design. Microwave and Optical Technology Letters, 2010, 52, 1739-1741.	1.4	9
34	Contribution of Nanotechnologies on the Study of the Physical Phenomena of the Arc Birth. , 2010, , .		0
35	Influence of the tip effect of a carbon nanostructure on low current electrical arc initiation. Materials Letters, 2009, 63, 2611-2614.	2.6	1
36	Fluorine addition to single-wall carbon nanotubes revisited. Chemical Physics Letters, 2009, 468, 231-233.	2.6	15

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37	Rapid synthesis of tin (IV) oxide nanoparticles by microwave induced thermohydrolysis. Journal of Solid State Chemistry, 2008, 181, 1439-1444.	2.9	75
38	Contribution to the assessment of the power balance at the electrodes of an electric arc in air. Plasma Sources Science and Technology, 2008, 17, 035001.	3.1	14
39	EXPERIMENTAL OBSERVATION OF THE INTERACTION BETWEEN A MICROSCOPIC CATHODE TIP AND ELECTRICAL ARC. High Temperature Material Processes, 2008, 12, 55-64.	0.6	2
40	A FIRST ATTEMPT TO CONNECT A MICROSCOPIC VISION OF THE CATHODE FRAGMENT AND MICRO SPOT TO A MACROSCOPIC APPROACH OF THE CATHODE ARC ROOT: A MULTI-SCALE PROBLEM. High Temperature Material Processes, 2008, 12, 39-54.	0.6	1
41	Thermal model of the evolution of fragments inside a microscopic spot: A multiscale approach of the interaction plasma/cathode. , 2007, , .		0
42	Metal oxide-based gas sensor and microwave broad-band measurements: an innovative approach to gas sensing. Journal of Physics: Conference Series, 2007, 76, 012043.	0.4	8
43	Experimental approach of the interaction between a sub-microscopic cathode tip and the plasma. , 2007, , .		0
44	Une nouvelle technique de dÃ©tection des endommagements dans les composites basÃ©e sur l'utilisation des micro-ondes et des circuits microrubans rÃ©sonants. Comptes Rendus - Mecanique, 2006, 334, 719-724.	2.1	3
45	DÃ©tection d'endommagement dans les composites fibres/rÃ©sine Ã l'aide de la technologie micro-onde. Revue Des Composites Et Des Materiaux Avances, 2006, 16, 263-278.	0.6	0
46	A comparative study of the behaviour of silver, copper and nickel submitted to a constant high power flux density. EPJ Applied Physics, 2005, 31, 45-51.	0.7	3
47	The modelling of the cathode sheath of an electrical arc in vacuum. Journal Physics D: Applied Physics, 2003, 36, 1495-1503.	2.8	13
48	Numerical modelling of thermal ablation phenomena due to a cathodic spot. Journal Physics D: Applied Physics, 2000, 33, 2079-2086.	2.8	22
49	Damage in Composite Material: A Microwave Detection. Key Engineering Materials, 0, 605, 303-305.	0.4	0