

stÃ©phane Serfaty

List of Publications by Year in descending order

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58
papers

434
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759233

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64
docs citations

64
times ranked

527
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the standard normal variate method for Laser-Induced Breakdown Spectroscopy data treatment applied to the discrimination of painting layers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 114, 38-45.	2.9	49
2	Multi-turn split-conductor transmission-line resonators. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 687-689.	3.0	44
3	Historical linseed oil/colophony varnishes formulations: Study of their molecular composition with micro-chemical chromatographic techniques. <i>Microchemical Journal</i> , 2016, 126, 200-213.	4.5	36
4	One-Shot Synthesis of a Poly(<i>N</i> -isopropylacrylamide)/Silica Hybrid Gel. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14914-14919.	2.6	25
5	Kinetic study of silica gels by a new rheological ultrasonic investigation. <i>Ultrasonics</i> , 2006, 44, e881-e885.	3.9	22
6	Lamb Wave Sensor for Viscous Fluids Characterization. <i>IEEE Sensors Journal</i> , 2009, 9, 1142-1147.	4.7	21
7	Trace element quantification of lead based roof sheets of historical monuments by Laser Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 34-42.	2.9	21
8	Kinetic study of silicon alkoxides gelation by acoustic and rheology investigations. <i>Journal of Non-Crystalline Solids</i> , 2003, 319, 57-64.	3.1	16
9	An acoustic technique for investigating the sol-gel transition. <i>Journal of Materials Chemistry</i> , 1998, 8, 2229-2231.	6.7	15
10	Ultrasonic monitoring of yoghurt formation by using AT-cut quartz: Lighting of casein micelles interactions process during the acidification. <i>Ultrasonics</i> , 2006, 44, e875-e879.	3.9	13
11	Influence of ns-laser wavelength in laser-induced breakdown spectroscopy for discrimination of painting techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 81-90.	2.9	13
12	Novel approach of signal normalization for depth profile of cultural heritage materials. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 127, 28-33.	2.9	13
13	Laser-induced emission, fluorescence and Raman hybrid setup: A versatile instrument to analyze materials from cultural heritage. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 44-53.	2.9	13
14	Acoustic resonance in tetramethoxysilane matrices: A new tool to characterize the gel formation. <i>Review of Scientific Instruments</i> , 2001, 72, 2134-2138.	1.3	11
15	Radiofrequency inductive probe for non-contact dielectric characterisations of organic medium. <i>Electronics Letters</i> , 2014, 50, 496-497.	1.0	10
16	Marble Characterization by Ultrasonic Methods. <i>Procedia Earth and Planetary Science</i> , 2015, 15, 249-256.	0.6	10
17	Reconstructing historical recipes of linseed oil/colophony varnishes: Influence of preparation processes on application properties. <i>Journal of Cultural Heritage</i> , 2017, 27, S34-S43.	3.3	8
18	Lamb mode reflections at the end of a plate loaded by a viscoelastic material. <i>Ultrasonics</i> , 2006, 44, e863-e868.	3.9	7

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19	Co-Immobilization of Peroxidase and Tyrosinase onto Hybrid Membranes Obtained by the Sol-Gel Method for the Construction of an Optical Biosensor. <i>Biotechnology and Biotechnological Equipment</i> , 2013, 27, 3885-3889.	1.3	7
20	Contactless Radio Frequency Monitoring of Dielectric Properties of Egg White During Gelation. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-7.	2.1	7
21	Non-Contact Radiofrequency Inductive Sensor for the Dielectric Characterization of Burn Depth in Organic Tissues. <i>Sensors</i> , 2019, 19, 1220.	3.8	6
22	Double-bracelet resonator Helmholtz probe for NMR experiments. <i>Review of Scientific Instruments</i> , 1995, 66, 5522-5526.	1.3	5
23	3D Gabor analysis of transient waves propagating along an AT cut quartz disk. <i>Ultrasonics</i> , 2006, 44, e1173-e1177.	3.9	5
24	Marble Ageing Characterization by Acoustic Waves. <i>Physics Procedia</i> , 2015, 70, 222-226.	1.2	5
25	Evolution of elastic and thermal properties during TMOS-gel formation determined by ringing bottle acoustic resonance spectroscopy, impulsive stimulated scattering, photopyroelectric spectroscopy and the hot ball method. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 085502.	2.8	5
26	Study of the bending modes in circular quartz resonators. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1934-1943.	3.0	4
27	Design of poly(<i>N</i> -acryloylglycine) materials for incorporation of microorganisms. <i>Journal of Applied Polymer Science</i> , 2013, 130, 835-841.	2.6	4
28	Chirp-Z analysis for gel transition monitoring. <i>Ultrasonics</i> , 2004, 42, 507-510.	3.9	3
29	Laser ultrasonic analysis of normal modes generated by a voltage pulse on an AT quartz sensor. <i>Ultrasonics</i> , 2006, 44, e1179-e1182.	3.9	3
30	New RF EMUS Transducer for Complex Fluid Characterization. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 132-135.	2.1	3
31	Wireless implementation of high sensitivity radiofrequency probes for the dielectric characterization of biological tissues. , 2014, , .		3
32	Experimental ultrasonic characterization of polyester-based materials for cultural heritage applications. <i>Ultrasonics</i> , 2017, 81, 127-134.	3.9	3
33	High-temperature superconducting receiver coil for NMR skin imaging. <i>European Physical Journal Special Topics</i> , 1998, 08, Pr3-245-Pr3-248.	0.2	3
34	Nd:YAG vs Er:YAG : a comparative study of laser varnish removal on easel paintings. , 2019, , .		3
35	Characterization of New Titanium Oxide Polymer Hybrid Membranes for Biofilm Formation. Phosphorus, Sulfur and Silicon and the Related Elements, 2012, 187, 926-936.	1.6	2
36	Monitoring of yogurt formation using a contactless radiofrequency dielectric sensor. , 2016, , .		2

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37	Rheological monitoring of tau protein polymerisation with acoustic waves sensor. Electronics Letters, 2017, 53, 298-300.	1.0	2
38	Titan Based Hybrid Organic-Inorganic Gels Comprising Carbohydrate Moiety. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 2216-2225.	1.6	1
39	Inductive magneto-acoustic technique for viscous fluids monitoring. , 2011, , .		1
40	New ultrasonic technic for on-line encapsulation monitoring. , 2015, , .		1
41	High Frequency Rheology Monitoring for Emulsion Stability Characterization. , 2017, , .		1
42	Bio-Impedance Non-Contact Radiofrequency Sensor for the Characterization of Burn Depth in Organic Tissues. Proceedings (mdpi), 2018, 2, .	0.2	1
43	Imaging of a dielectric inclusion using a contactless radio-frequency inductive probe for tissue diagnosis. , 2019, 2019, 6049-6054.		1
44	Electricity for Fluidics and Bio-Devices. Microtechnology and MEMS, 2020, , 235-308.	0.2	1
45	Soft Matter Characterization From Ultrasonic Microrheology and Fractional Calculus. IEEE Sensors Journal, 2022, 22, 162-173.	4.7	1
46	Validation of the short time correlation analysis. , 0, , .		0
47	Acoustic resonance tracking in sol gel materials. , 0, , .		0
48	Monitoring of different complex materials with TSM resonators array. , 2009, , .		0
49	Microrheological monitoring of life cycle of yeast cell Saccharomyces Cerevisiae. , 2011, , .		0
50	Laser Experimental Study of the Surface Vibrations of EMUS Sensor. Physics Procedia, 2015, 70, 961-964.	1.2	0
51	Ex vivo TSM online monitoring of skin dehydration. , 2015, , .		0
52	Evaluation of a high sensitivity radiofrequency inductive probe for the non-contact sensing of dielectric properties of organic media. , 2015, , .		0
53	Slant-Stack analysis for the estimation of a marble degradation profile. , 2016, , .		0
54	Design of Autonomous Miniaturized Spherical Acoustic Sensor for Complexe Media Characterization. , 2017, , .		0

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55	Multi-Frequency Ultrasonic Shear Waves Rheology for Soft Materials Monitoring in Cosmetics. , 2017, , .		0
56	Non Contact Estimation of the Dielectric Properties of Organic Material Using an Inductive RF Sensor and a Multifrequency Approach. , 2017, , .		0
57	Caractérisation RF sans contact des changements structurels de milieux organiques. Instrumentation Mesure Metrologie, 2016, 15, 177-212.	0.3	0
58	Multifrequency RF sensor for the non-contact monitoring of tissues. , 2022, , .		0