

Ilias D Stavrakas

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

1,174
citations

471509

17
h-index

454955

30
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90
docs citations

90
times ranked

784
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Assessment of Criticality Indices Extracted from Acoustic and Electrical Signals Detected in Marble Specimens. <i>Infrastructures</i> , 2022, 7, 15.	2.8	17
2	Hidden Affinities Between Electric and Acoustic Activities in Brittle Materials at Near-Fracture Load Levels. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 1325-1342.	5.4	28
3	Influence of the cation partner on levulinate ionic liquids properties. <i>Journal of Molecular Liquids</i> , 2022, 354, 118850.	4.9	8
4	Exploring the acoustic activity in brittle materials in terms of the position of the acoustic sources and the power of the acoustic signalsâ€™Part I: Founding the approach. <i>Forces in Mechanics</i> , 2022, 7, 100088.	2.8	7
5	Detecting Criticality by Exploring the Acoustic Activity in Terms of the â€™Natural-Timeâ€™-Concept. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 231.	2.5	8
6	The determination of mode-I fracture toughness (by means of the Brazilian disc configuration) in the light of data provided by the 3D digital image correlation technique. <i>International Journal of Building Pathology and Adaptation</i> , 2022, ahead-of-print, .	1.3	1
7	Dielectric Study of Tetraalkylammonium and Tetraalkylphosphonium Levulinate Ionic Liquids. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5642.	4.1	2
8	Correlation of Acoustic Emissions and Pressure Stimulated Currents recorded in Alfas-stone specimens under three-point bending. The role of the specimensâ€™ porosity: Preliminary results.. <i>Procedia Structural Integrity</i> , 2022, 41, 452-460.	0.8	3
9	Electrical Methods for Sensing Damage in Cement Mortar Beams Combined with Acoustic Emissions. <i>Materials</i> , 2022, 15, 4682.	2.9	5
10	Comparative I _b -value and F _a -function analysis of Acoustic Emissions from elementary and structural tests with marble specimens. <i>Material Design and Processing Communications</i> , 2021, 3, e176.	0.9	5
11	Post-COVID-19 Education: A Case of Technology Driven Change?., 2021, , .		0
12	Preference for Multiple Choice and Constructed Response Exams for Engineering Students with and without Learning Difficulties. , 2021, , .		2
13	Acceptance of Distance Learning during the COVID-19 Movement Restrictions: Does the Year of Studies Matter?., 2021, , .		2
14	Non-Extensive Statistical Analysis of Acoustic Emissions: The Variability of Entropic Index q during Loading of Brittle Materials Until Fracture. <i>Entropy</i> , 2021, 23, 276.	2.2	2
15	An IoT-Based Participatory Antitheft System for Public Safety Enhancement in Smart Cities. <i>Smart Cities</i> , 2021, 4, 919-937.	9.4	17
16	A method for the calculation the activation energies of thermally stimulated depolarization current peaks: Application in polyvinylidene fluoride/graphene nanocomposites. <i>Physica B: Condensed Matter</i> , 2021, 622, 413338.	2.7	2
17	Exploring the acoustic activity in marble specimens under tension while entering into the stage of impending fracture. <i>Procedia Structural Integrity</i> , 2021, 33, 330-336.	0.8	1
18	Assessing the acoustic activity in marble specimens under stepwise compressive loading. <i>Material Design and Processing Communications</i> , 2020, 2, e100.	0.9	5

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19	Electric and acoustic activity in notched fiber-reinforced concrete beams under three-point bending. <i>Materials Today: Proceedings</i> , 2020, 32, 148-155.	1.8	5
20	Low cost sensor implementation and evaluation for measuring NO ₂ and O ₃ pollutants. , 2020, , .		10
21	Non-Extensive Statistical Analysis of Acoustic Emissions Recorded in Marble and Cement Mortar Specimens Under Mechanical Load Until Fracture. <i>Entropy</i> , 2020, 22, 1115.	2.2	6
22	The derivative method of critical-angle refractometry for attenuating media. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 075601.	2.2	11
23	The relaxation processes of Pressure Stimulated Currents under the concept of Non-extensive statistical physics. <i>Procedia Structural Integrity</i> , 2020, 26, 277-284.	0.8	6
24	Modelling acoustic and electric signals emitted during structural tests in terms of log-periodic power-law models. <i>Material Design and Processing Communications</i> , 2020, 2, e134.	0.9	0
25	Monitoring the mechanical response of early aged cement-mortar specimens using the Pressure Stimulated Currents technique. <i>Procedia Structural Integrity</i> , 2020, 28, 502-510.	0.8	4
26	Weighted Scoring of Multiple-choice Questions based Exams: Expert and Empirical Weighting Factors. , 2020, , .		2
27	On the Evaluation of Low-Cost PM Sensors for Air Quality Estimation. , 2019, , .		9
28	Non-extensive statistical analysis of acoustic emissions series recorded during the uniaxial compression of brittle rocks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 528, 121498.	2.6	11
29	Marble epistyles under shear: An experimental study of the role of "Relieving Space". <i>Frontiers of Structural and Civil Engineering</i> , 2019, 13, 767-786.	2.9	11
30	Damage evolution in marble under uniaxial compression monitored by Pressure Stimulated Currents and Acoustic Emissions. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 573-583.	0.9	5
31	Notched marble plates under direct tension: Mechanical response and fracture. <i>Construction and Building Materials</i> , 2018, 167, 426-439.	7.2	18
32	Notched marble plates under tension: Detecting prefailure indicators and predicting entrance to the "critical stage". <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 776-786.	3.4	25
33	Tsallis entropy modeling of Pressure Stimulated Currents when cement-based materials are subjected to abrupt repetitive bending loadings. <i>Procedia Structural Integrity</i> , 2018, 10, 97-103.	0.8	0
34	Investigation of acoustic emissions and pressure stimulated currents detected during bending of restored marble epistyles within the frame of log-periodic power-law models. <i>Procedia Structural Integrity</i> , 2018, 10, 319-325.	0.8	0
35	Complexity in Laboratory Seismology. , 2018, , 239-273.		17
36	hackAIR: Towards Raising Awareness about Air Quality in Europe by Developing a Collective Online Platform. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 187.	2.9	32

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37	Correlation of pressure stimulated currents and acoustic emissions during 3PB of cement-mortar beams and the role of loading rate. <i>Procedia Structural Integrity</i> , 2017, 3, 346-353.	0.8	8
38	Recording the mechanical response and fracture of marble DENT specimens using modern sensing techniques. <i>Procedia Structural Integrity</i> , 2017, 3, 326-333.	0.8	3
39	Acoustic emissions and pressure stimulated currents experimental techniques used to verify Kaiser effect during compression tests of Dionysos marble. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 32-40.	0.9	3
40	Acoustic Emissions versus Pressure Stimulated Currents during bending of restored marble epistyles: Preliminary results. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 536-551.	0.9	2
41	Acoustic Emission Analysis of Cement Mortar Specimens During Three Point Bending Tests. <i>Latin American Journal of Solids and Structures</i> , 2016, 13, 2283-2297.	1.0	26
42	Carbon nanotube reinforced mortar as a sensor to monitor the structural integrity of restored marble epistyles under shear. <i>Procedia Structural Integrity</i> , 2016, 2, 2833-2840.	0.8	7
43	Pull-out of threaded reinforcing bars from marble blocks. <i>Procedia Structural Integrity</i> , 2016, 2, 2865-2872.	0.8	7
44	A preliminary study for prefailure indicators in acoustic emissions using wavelets and natural time analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 780-788.	1.1	10
45	Towards Air Quality Estimation Using Collected Multimodal Environmental Data. <i>Lecture Notes in Computer Science</i> , 2016, , 147-156.	1.3	7
46	Natural Time Analysis of Acoustic Emissions in Double Edge Notched Tension (DENT) Marble Specimens. <i>Procedia Engineering</i> , 2015, 109, 248-256.	1.2	12
47	Innovative Experimental Techniques in the Service of Restoration of Stone Monuments - Part II: Marble Epistyles under Shear. <i>Procedia Engineering</i> , 2015, 109, 276-284.	1.2	11
48	Innovative Experimental Techniques in the Service of Restoration of Stone Monuments - Part I: the Experimental Set up. <i>Procedia Engineering</i> , 2015, 109, 268-275.	1.2	8
49	Predicting fracture of mortar beams under three-point bending using non-extensive statistical modeling of electric emissions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 419, 603-611.	2.6	23
50	Non-destructive assessment of the three-point-bending strength of mortar beams using radial basis function neural networks. <i>Computers and Concrete</i> , 2015, 16, 919-932.	0.7	3
51	The Use of PSC Technique to Estimate the Damage Extension During Three Point Bending Test. <i>Advanced Structured Materials</i> , 2015, , 363-372.	0.5	0
52	Refractive, dispersive and thermo-optic properties of twelve organic solvents in the visible and near-infrared. <i>Applied Physics B: Lasers and Optics</i> , 2014, 116, 617-622.	2.2	142
53	Electrical characterization of polymer matrix TiO_2 filler composites through isothermal polarization / depolarization currents and I^{th} tests. <i>Open Physics</i> , 2014, 12, .	1.7	0
54	A comparative study on the use of the extended-Cauchy dispersion equation for fitting refractive index data in crystals. <i>Optical and Quantum Electronics</i> , 2013, 45, 837-859.	3.3	6

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55	Electrical and Acoustic Emissions in cement mortar beams subjected to mechanical loading up to fracture. <i>Engineering Failure Analysis</i> , 2013, 35, 454-461.	4.0	38
56	Nondestructive Testing Electrical Methods for Sensing Damages in Cement Mortar Beams. <i>Open Journal of Applied Sciences</i> , 2013, 03, 50-55.	0.4	5
57	An adaptive soft-sensor for non-destructive cement-based material testing, through the use of RBF networks. , 2012, , .		0
58	Pressure stimulated electrical emissions from cement mortar used as failure predictors. <i>International Journal of Fracture</i> , 2012, 175, 53-61.	2.2	46
59	A neural network approach for compressive strength prediction in cement-based materials through the study of pressure-stimulated electrical signals. <i>Construction and Building Materials</i> , 2012, 30, 294-300.	7.2	35
60	Using AC Conductivity Measurements to Study the Influence of Mechanical Stress on the Strength of Geomaterials. <i>Open Journal of Applied Sciences</i> , 2012, 02, 61-65.	0.4	2
61	Relaxation phenomena of electrical signal emissions from rock following application of abrupt mechanical stress. <i>Annals of Geophysics</i> , 2012, 55, .	1.0	6
62	WSN Open Source Development Platform: Application to Green Learning. <i>Procedia Engineering</i> , 2011, 25, 1049-1052.	1.2	7
63	Nonlinear control of a DC-motor based on radial basis function neural networks. , 2011, , .		7
64	Temperature-dependent visible to near-infrared optical properties of 8 mol% Mg-doped lithium tantalate. <i>Optical Materials Express</i> , 2011, 1, 458.	3.0	30
65	Isothermal depolarization currents measurements of cement mortar during the hardening process. Commentaries on previous work. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1554-1556.	4.0	1
66	Interface states and MWS polarization contributions to the dielectric response of low voltage ZnO varistor. <i>Ceramics International</i> , 2011, 37, 207-214.	4.8	25
67	Temperature-dependent refractive index of potassium acid phthalate (KAP) in the visible and near-infrared. <i>Optical Materials</i> , 2011, 33, 812-816.	3.6	6
68	Study of Weak Electric Current Emissions on Cement Mortar under Uniaxial Compressional Mechanical Stress up to the Vicinity of Fracture. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2011, 2011, 237-244.	1.1	4
69	Thermally activated conduction mechanisms in Silicon Nitride MIS structures. <i>Thin Solid Films</i> , 2010, 518, 2357-2360.	1.8	4
70	Probing the electrical properties of the Si nitride/Si interface. , 2010, , .		0
71	Low Temperature Dielectric Relaxations in ZnO Varistor. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 051102.	1.5	9
72	Probing the microstructure of cement mortars through dielectric parameters's variation. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 576-583.	4.0	18

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73	Modelling of electric signals stimulated by bending of rock beams. International Journal of Microstructure and Materials Properties, 2009, 4, 5.	0.1	5
74	Correlation of pressure stimulated currents in rocks with the damage parameter. Annals of Geophysics, 2009, 50, .	1.0	4
75	The correlation of electrical charge with strain on stressed rock samples. Natural Hazards and Earth System Sciences, 2008, 8, 1243-1248.	3.6	34
76	Load balancing incoming IP requests across a farm of clustered MySQL servers. , 2007, , .		0
77	Computer as a Tool in Teaching, Examining and Assessing Electronic Engineering Students. , 2007, , .		7
78	A Physical Access Control System that utilizes existing networking and computer infrastructure. , 2007, , .		3
79	Study of directivity effect on electromagnetic emissions in the HF band as earthquake precursors: Preliminary results on field observations. Tectonophysics, 2007, 431, 263-271.	2.2	13
80	An analysis of pressure stimulated currents (PSC), in marble samples under mechanical stress. Physics and Chemistry of the Earth, 2006, 31, 234-239.	2.9	60
81	Embedded compact flash. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2005, 21, 27-34.	0.4	5
82	The influence of externally applied uniaxial stress on Isothermal Depolarization Current mechanisms in rock samples. Journal of Materials Science, 2005, 40, 4593-4596.	3.7	6
83	Beowulf Clusters for Parallel Programming Courses. , 2005, , .		1
84	Pressure stimulated currents in rocks and their correlation with mechanical properties. Natural Hazards and Earth System Sciences, 2004, 4, 563-567.	3.6	62
85	Electric earthquake precursors: from laboratory results to field observations. Physics and Chemistry of the Earth, 2004, 29, 339-351.	2.9	93
86	DIELECTRIC SPECTROSCOPY IN CRUSTAL ROCKS: PRELIMINARY RESULTS FROM NORTHEASTERN SICILY (ITALY) AND THE GULF OF CORINTH (GREECE). Bulletin of the Geological Society of Greece, 2004, 36, 1925.	0.5	3
87	Piezo stimulated currents in marble samples: precursory and concurrent-with-failure signals. Natural Hazards and Earth System Sciences, 2003, 3, 243-247.	3.6	58
88	Isothermal depolarization currents in marble rocks subjected to different stress modes before fracture. , 0, , .		2
89	Mechanical response of notched marble beams under bending versus acoustic emissions and electric activity. Journal of Theoretical and Applied Mechanics, 0, , 523.	0.5	9