Dimos A Triantis

List of Publications by Year
in descending order

82	1,387	331670 21	377865 34
papers	citations	h-index	g-index

83	83	83	915
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Refractive, dispersive and thermo-optic properties of twelve organic solvents in the visible and near-infrared. Applied Physics B: Lasers and Optics, 2014, 116, 617-622.	2.2	142
2	Electric earthquake precursors: from laboratory results to field observations. Physics and Chemistry of the Earth, 2004, 29, 339-351.	2.9	93
3	An Alternative Approach for Representing the Data Provided by the Acoustic Emission Technique. Rock Mechanics and Rock Engineering, 2018, 51, 2433-2438.	5.4	70
4	Non-destructive evaluation of cement-based materials from pressure-stimulated electrical emission â€“ Preliminary results. Construction and Building Materials, 2011, 25, 1980-1990.	7.2	61
5	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
6	Pressure stimulated electrical emissions from cement mortar used as failure predictors. International Journal of Fracture, 2012, 175, 53-61.	2.2	46
7	Large Earthquake Occurrence Estimation Based on Radial Basis Function Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5443-5453.	6.3	40
8	Scaling in Pressure Stimulated Currents related with rock fracture. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4940-4946.	2.6	38
9	Electrical and Acoustic Emissions in cement mortar beams subjected to mechanical loading up to fracture. Engineering Failure Analysis, 2013, 35, 454-461.	4.0	38
10	Dielectric and conductivity measurements as proxy method to monitor contamination in sandstone. Journal of Hazardous Materials, 2007, 142, 520-525.	12.4	36
11	Non-extensivity of the isothermal depolarization relaxation currents in uniaxial compressed rocks. Europhysics Letters, 2011, 94, 68008.	2.0	36
12	A neural network approach for compressive strength prediction in cement-based materials through the study of pressure-stimulated electrical signals. Construction and Building Materials, 2012, 30, 294-300.	7.2	35
13	Biomonitoring of Environmental Pollution Using Dielectric Properties of Tree Leaves. Environmental Monitoring and Assessment, 2007, 133, 69-78.	2.7	34
14	Temperature-dependent visible to near-infrared optical properties of 8 mol% Mg-doped lithium tantalate. Optical Materials Express, 2011, 1, 458.	3.0	30
15	Comparison of examination methods based on multiple-choice questions and constructed-response questions using personal computers. Computers and Education, 2010, 54, 455-461.	8.3	29
16	Hidden Affinities Between Electric and Acoustic Activities in Brittle Materials at Near-Fracture Load Levels. Rock Mechanics and Rock Engineering, 2022, 55, 1325-1342.	5.4	28
17	Acoustic Emission Analysis of Cement Mortar Specimens During Three Point Bending Tests. Latin American Journal of Solids and Structures, 2016, 13, 2283-2297.	1.0	26
18	Dielectric properties of non-swelling bentonite: The effect of temperature and water saturation. Journal of Non-Crystalline Solids, 2008, 354, 5533-5541.	3.1	25

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19	Interface states and MWS polarization contributions to the dielectric response of low voltage ZnO varistor. Ceramics International, 2011, 37, 207-214.	4.8	25
20	Is pressure stimulated current relaxation in amphibolite a case of non-extensivity?. Europhysics Letters, 2012, 99, 18006.	2.0	25
21	Notched marble plates under tension: Detecting prefailure indicators and predicting entrance to the â€œcritical stageâ€• Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 776-786.	3.4	25
22	Comparison of oral examination and electronic examination using paired multiple-choice questions. Computers and Education, 2011, 56, 616-624.	8.3	23
23	Predicting fracture of mortar beams under three-point bending using non-extensive statistical modeling of electric emissions. Physica A: Statistical Mechanics and Its Applications, 2015, 419, 603-611.	2.6	23
24	Correlation between the electric and acoustic signals emitted during compression of brittle materials. Frattura Ed Integrita Strutturale, 2017, 11, 41-51.	0.9	21
25	Fracture analysis of typical construction materials in natural time. Physica A: Statistical Mechanics and Its Applications, 2020, 547, 123831.	2.6	19
26	Probing the microstructure of cement mortars through dielectric parametersâ€™ variation. Journal of Physics and Chemistry of Solids, 2009, 70, 576-583.	4.0	18
27	Notched marble plates under direct tension: Mechanical response and fracture. Construction and Building Materials, 2018, 167, 426-439.	7.2	18
28	Complexity in Laboratory Seismology. , 2018, , 239-273.		17
29	Comparative Assessment of Criticality Indices Extracted from Acoustic and Electrical Signals Detected in Marble Specimens. Infrastructures, 2022, 7, 15.	2.8	17
30	A non-extensive view of the Pressure Stimulated Current relaxation during repeated abrupt uniaxial load-unload in rock samples. Europhysics Letters, 2013, 104, 68002.	2.0	16
31	Acoustic emission monitoring of marble specimens under uniaxial compression. Precursor phenomena in the near-failure phase. Procedia Structural Integrity, 2018, 10, 11-17.	0.8	14
32	A neural network approach for the prediction of the refractive index based on experimental data. Journal of Materials Science, 2012, 47, 883-891.	3.7	12
33	Complex electrical conductivity measurements of a KTB amphibolite sample at elevated temperatures. Materials Chemistry and Physics, 2013, 139, 169-175.	4.0	12
34	Natural Time Analysis of Acoustic Emissions in Double Edge Notched Tension (DENT) Marble Specimens. Procedia Engineering, 2015, 109, 248-256.	1.2	12
35	Innovative Experimental Techniques in the Service of Restoration of Stone Monuments - Part II: Marble Epistyles under Shear. Procedia Engineering, 2015, 109, 276-284.	1.2	11
36	Non-extensive statistical analysis of acoustic emissions series recorded during the uniaxial compression of brittle rocks. Physica A: Statistical Mechanics and Its Applications, 2019, 528, 121498.	2.6	11

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37	Marble epistyles under shear: An experimental study of the role of â€œRelieving Spaceâ€• Frontiers of Structural and Civil Engineering, 2019, 13, 767-786.	2.9	11
38	An investigation of the imaging characteristics of the Y2O2S:Eu3+ phosphor for application in X-ray detectors of Digital Mammography. Applied Radiation and Isotopes, 1998, 49, 931-937.	1.5	9
39	Low Temperature Dielectric Relaxations in ZnO Varistor. Japanese Journal of Applied Physics, 2010, 49, 051102.	1.5	9
40	Innovative Experimental Techniques in the Service of Restoration of Stone Monuments - Part I: the Experimental Set up. Procedia Engineering, 2015, 109, 268-275.	1.2	8
41	Correlation of pressure stimulated currents and acoustic emissions during 3PB of cement-mortar beams and the role of loading rate. Procedia Structural Integrity, 2017, 3, 346-353.	0.8	8
42	Detecting Criticality by Exploring the Acoustic Activity in Terms of the â€œNatural-Timeâ€•Concept. Applied Sciences (Switzerland), 2022, 12, 231.	2.5	8
43	Computer as a Tool in Teaching, Examining and Assessing Electronic Engineering Students. , 2007, , .		7
44	WSN Open Source Development Platform: Application to Green Learning. Procedia Engineering, 2011, 25, 1049-1052.	1.2	7
45	Carbon nanotube reinforced mortar as a sensor to monitor the structural integrity of restored marble epistyles under shear. Procedia Structural Integrity, 2016, 2, 2833-2840.	0.8	7
46	Pull-out of threaded reinforcing bars from marble blocks. Procedia Structural Integrity, 2016, 2, 2865-2872.	0.8	7
47	Similarity of fluctuations in critical systems: Acoustic emissions observed before fracture. Physica A: Statistical Mechanics and Its Applications, 2021, 566, 125622.	2.6	7
48	Using New Technologies for Teaching Power Electronics and Assessing Students. , 2006, , .		6
49	Temperature-dependent refractive index of potassium acid phthalate (KAP) in the visible and near-infrared. Optical Materials, 2011, 33, 812-816.	3.6	6
50	A comparative study on the use of the extended-Cauchy dispersion equation for fitting refractive index data in crystals. Optical and Quantum Electronics, 2013, 45, 837-859.	3.3	6
51	Non-Extensive Statistical Analysis of Acoustic Emissions Recorded in Marble and Cement Mortar Specimens Under Mechanical Load Until Fracture. Entropy, 2020, 22, 1115.	2.2	6
52	The relaxation processes of Pressure Stimulated Currents under the concept of Non-extensive statistical physics. Procedia Structural Integrity, 2020, 26, 277-284.	0.8	6
53	Fracture precursor phenomena in marble specimens under uniaxial compression by means of Acoustic Emission data. Frattura Ed Integrita Strutturale, 2019, 13, 537-547.	0.9	6
54	Relaxation phenomena of electrical signal emissions from rock following application of abrupt mechanical stress. Annals of Geophysics, 2012, 55, .	1.0	6

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55	Modelling of electric signals stimulated by bending of rock beams. International Journal of Microstructure and Materials Properties, 2009, 4, 5.	0.1	5
56	Assessing the acoustic activity in marble specimens under stepwise compressive loading. Material Design and Processing Communications, 2020, 2, e100.	0.9	5
57	Electric and acoustic activity in notched fiber-reinforced concrete beams under three-point bending. Materials Today: Proceedings, 2020, 32, 148-155.	1.8	5
58	Comparative Ibâ€value and Fâ€function analysis of Acoustic Emissions from elementary and structural tests with marble specimens. Material Design and Processing Communications, 2021, 3, e176.	0.9	5
59	Damage evolution in marble under uniaxial compression monitored by Pressure Stimulated Currents and Acoustic Emissions. Frattura Ed Integrita Strutturale, 2019, 13, 573-583.	0.9	5
60	Nondestructive Testing Electrical Methods for Sensing Damages in Cement Mortar Beams. Open Journal of Applied Sciences, 2013, 03, 50-55.	0.4	5
61	Electrical Methods for Sensing Damage in Cement Mortar Beams Combined with Acoustic Emissions. Materials, 2022, 15, 4682.	2.9	5
62	Thermally activated conduction mechanisms in Silicon Nitride MIS structures. Thin Solid Films, 2010, 518, 2357-2360.	1.8	4
63	Study of Weak Electric Current Emissions on Cement Mortar under Uniaxial Compressional Mechanical Stress up to the Vicinity of Fracture. Strojniski Vestnik/Journal of Mechanical Engineering, 2011, 2011, 237-244.	1.1	4
64	Monitoring the mechanical response of early aged cement-mortar specimens using the Pressure Stimulated Currents technique. Procedia Structural Integrity, 2020, 28, 502-510.	0.8	4
65	Natural time analysis of acoustic emissions before fracture: Results compatible with the Bak-Tang-Wiesenfeld model. Europhysics Letters, 2022, 139, 12004.	2.0	4
66	A Physical Access Control System that utilizes existing networking and computer infrastructure. , 2007, , .		3
67	Non-destructive assessment of the three-point-bending strength of mortar beams using radial basis function neural networks. Computers and Concrete, 2015, 16, 919-932.	0.7	3
68	Preference for Multiple Choice and Constructed Response Exams for Engineering Students with and without Learning Difficulties. , 2021, , .		2
69	Acceptance of Distance Learning during the COVID-19 Movement Restrictions: Does the Year of Studies Matter?. , 2021, , .		2
70	Non-Extensive Statistical Analysis of Acoustic Emissions: The Variability of Entropic Index q during Loading of Brittle Materials Until Fracture. Entropy, 2021, 23, 276.	2.2	2
71	Acoustic Emissions versus Pressure Stimulated Currents during bending of restored marble epistyles: Preliminary results. Frattura Ed Integrita Strutturale, 2017, 11, 536-551.	0.9	2
72	Enhancing Electronic Examinations through Advanced Multiple-Choice Questionnaires. , 2012, , 178-198.		2

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73	Exploring the acoustic activity in marble specimens under tension while entering into the stage of impending fracture. Procedia Structural Integrity, 2021, 33, 330-336.	0.8	1
74	The critical influence of some â€œtinyâ€•geometrical details on the stress field in a Brazilian Disc with a central notch of finite width and length. Frattura Ed Integrita Strutturale, 2022, 16, 405-422.	0.9	1
75	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. International Journal of Building Pathology and Adaptation, 2022, ahead-of-print, .	1.3	1
76	Load balancing incoming IP requests across a farm of clustered MySQL servers. , 2007, , .		0
77	An adaptive soft-sensor for non-destructive cement-based material testing, through the use of RBF networks. , 2012, , .		0
78	Electrical characterization of polymer matrix â€” TiO2 filler composites through isothermal polarization / depolarization currents and Iâ€“V tests. Open Physics, 2014, 12, .	1.7	0
79	Modelling acoustic and electric signals emitted during structural tests in terms of logâ€periodic powerâ€law models. Material Design and Processing Communications, 2020, 2, e134.	0.9	0
80	Post-COVID-19 Education: A Case of Technology Driven Change?. , 2021, , .		0
81	The Use of PSC Technique to Estimate the Damage Extension During Three Point Bending Test. Advanced Structured Materials, 2015, , 363-372.	0.5	0
82	Paired Multiple Choice Questionnaires. Advances in Educational Technologies and Instructional Design Book Series, 2016, , 673-697.	0.2	0