

# Δήμος Α. Τριάντης

## Καθηγητής

Τμήμα Ηλεκτρονικών Μηχανικών  
Τεχνολογικό Εκπαιδευτικό Ίδρυμα (ΤΕΙ) Αθήνας

### Refereed Publications in Journals: 72

- 1) **Dimos Triantis**, Ermioni D. Pasiou, *Electric and acoustic signals emitted during compression of brittle materials*, **Fracture and Structural Integrity**, (40), 41-51 (2017) [link](#)
- 2) A. Kanapitsas, G. Psarras C. Tsonos, A. Speliotis, A. Patsidis, E. Siores, **D. Triantis**, *Magneto-electric response and functionality in barium ferrite/barium titanate/epoxy resin nanocomposites*, **Journal of Advanced Physics**, 6, 69–75 (2017) [link](#)
- 3) Ilias Stavrakas, **Dimos Triantis**, Stavros Kourkoulis, Ermioni Pasiou, Ioanna Dakanali, *Acoustic emission analysis when cement mortar specimens are subjected to three point bending repetitive cycles*, **Latin American Journal of Solids and Structures**, Vol 13 (12), pp. 2283-2297 (2016) [link](#)
- 4) G. Hloupis, I. Stavrakas, F. Vallianatos and **D. Triantis**, *A preliminary study for prefailure indicators in acoustic emissions using wavelets and natural time analysis*, **Journal of Materials: Design and Applications**, Vol. 230(3) 780–788 (2016) [link](#)
- 5) A. Alexandridis, I. Stavrakas, Ch. Stergiopoulos, G. Hloupis, K. Ninos, **D. Triantis**, *Non-destructive assessment of the three-point-bending strength of mortar beams using radial basis function neural networks*, **Computers and Concrete**, vol. 16, no 6, 919-932 (2015) [link](#)
- 6) C. Stergiopoulos, I. Stavrakas, **D. Triantis**, F. Vallianatos, J. Stonham, *Predicting fracture of mortar beams under three-point bending using non-extensive statistical modelling of electric emissions*. **Physica A**, vol. 419, 603–611 (2015) [link](#)
- 7) Ilias Stavrakas, **Dimos Triantis**, George Hloupis, Konstantinos Moutzouris, *Electrical characterization of polymer matrix – TiO<sub>2</sub> filler composites through isothermal polarization /depolarization currents and I-V tests*, **Central European Journal of Physics**, 12, pp 286-291 (2014) [link](#)
- 8) Alex Alexandridis, Eva Chondrodima, Evangelos Efthimiou, Giorgos Papadakis, Filippos Vallianatos, and **Dimos Triantis**, *Large Earthquake Occurrence Estimation Based on Radial Basis Function Neural Networks*, **IEEE Transactions on Geoscience and Remote Sensing**, Vol.52, 5443 – 5453 (2014) [link](#)
- 9) Konstantinos Moutzouris, Myrtila Papamichael, Sokratis C. Betsis, Ilias Stavrakas, George Hloupis and **Dimos Triantis**, *Refractive, dispersive and thermo-optic properties of twelve organic solvents in the visible and near-infrared*. **Applied Physics B: Lasers and Optics**, 116, pp. 617-622 (2014) [link](#)
- 10) Filippos Vallianatos and **Dimos Triantis**, *A non extensive view of the pressure stimulated current relaxation during repeated abrupt uniaxial load-unload in rock* [link](#)

*samples*, **Europphysics Letters (EPL) 104 (2013) 68002**

- 11) Kourkoulis, S. K., Pasiou E. D., Stavrakas I., Hloupis G., Triantis D. *The mechanical response of marble epistyles studied with the aid of innovative experimental techniques*, **Anyagvizsgálók Lapja (Mechanical Testing – 2013 / 3-4)**, pp.85-92 [link](#)
- 12) Eleni Stoumbou, Ilias Stavrakas, George Hloupis, Alex Alexandridis, **Dimos Triantis**, Konstantinos Moutzouris, *A comparative study on the use of the extended-Cauchy dispersion equation for fitting refractive index data in crystals*, **Optical and Quantum Electronics, Volume 45**, pp 837-859 (2013). [link](#)
- 13) C. Stergiopoulos, I. Stavrakas, G. Hloupis, **D. Triantis**, F. Vallianatos, *Electrical and acoustic emissions in cement mortar beams subjected to mechanical loading up to fracture*, **Engineering Failure Analysis, Volume 35**, pp 454–461 (2013). [link](#)
- 14) Charalampos Stergiopoulos, Ilias Stavrakas, George Hloupis, Antonios Kyriazopoulos, **Dimos Triantis**, Cimon Anastasiadis, John Stonham, *Nondestructive Testing Electrical Methods for Sensing Damages in Cement Mortar Beams*, **Open Journal of Applied Sciences, 3**, pp 50-55 (2013). [link](#)
- 15) V. Saltas, V. Chatzistamou, D. Pentari, E. Paris, **D. Triantis**, I. Fitis, F. Vallianatos, *Complex electrical conductivity measurements of a KTB amphibolite sample at elevated temperatures*, **Materials Chemistry and Physics, 139**, pp 169-175 (2013). [link](#)
- 16) F. Vallianatos, **D. Triantis**, *Is pressure stimulated current relaxation in amphibolite a case of non-extensivity?* **Europphysics Letters (EPL), 99 (2012) 18006**. [link](#)
- 17) **D. Triantis**, I. Stavrakas, A. Kyriazopoulos, G. Hloupis, Z. Agioutantis *Pressure Stimulated Electrical Emissions from cement mortar used as failure predictors*, **International Journal of Fracture, 175**, 53-61 (2012). [link](#)
- 18) **D. Triantis**, F. Vallianatos, I. Stavrakas, G. Hloupis, *Relaxation phenomena of electric signal emissions from rocks following to abrupt mechanical stress application*, **Annals of Geophysics, 55**, 207-212 (2012). [link](#)
- 19) I. Stavrakas, K. Moutzouris, K. Ninos, N. Mitritsakis, Z. Agioutantis, **D. Triantis**, *Using ac conductivity measurements to study the influence of mechanical stress on the strength of geomaterials*, **Open Journal of Applied Science, 2**, 61-65 (2012). [link](#)
- 20) A. Alexandridis, **D. Triantis**, I Stavrakas, C. Stergiopoulos, *A neural network approach for compressive strength prediction in cement-based materials through the study of pressure-stimulated electrical signals*, **Construction and Building Materials 30**, pp 294–300 (2012). [link](#)
- 21) A. Alexandridis, E. Chondrodima, K. Moutzouris, **D. Triantis**, *A neural network approach for the prediction of the refractive index based on experimental data*, **J. Mater. Sci., 47**, pp 883-891 (2012). [link](#)
- 22) C. Tsonos, I. Stavrakas, C. Anastasiadis, A. Kyriazopoulos, A. Kanapitsas and **D. Triantis**, *Isothermal depolarization currents measurements of cement mortar during the hardening process. Commentaries on previous work*, **Journal of Physics and Chemistry of Solids, 72**, pp 1554-1556 (2011). [link](#)
- 23) F. Vallianatos, **D. Triantis**, P. Sammonds, *Non-extensivity of the Isothermal Depolarization relaxation Currents in uniaxial compressed rock*, **Europphysics Letters (EPL), 94 (2011) 68008**. [link](#)

- 24) K. Moutzouris, G. Hloupis, I. Stavrakas, **D. Triantis**, Ming-Hsien Chou, *Temperature-dependent visible to near-infrared optical properties of 8 mol% Mg-doped lithium tantalite*, **Optical Materials Express Vol. 1**, pp 458-465 (2011). [link](#)
- 25) K. Moutzouris, I. Stavrakas, **D. Triantis**, M. Enculescu, *Temperature-dependent refractive index of potassium acid phthalate (KAP) in the visible and near-infrared*, **Optical Materials**, **33**, pp 812-816 (2011). [link](#)
- 26) C. Tsonos, A. Kanapitsas, **D. Triantis**, C. Anastasiadis, I. Stavrakas, P. Pissis, E. Neagu, *Interface States and NWS Polarization Contributions to the Dielectric Response of Low Voltage ZnO Varistor*, **Ceramics International**, **37**, pp 207-214 (2011). [link](#)
- 27) E. Ventouras, **D. Triantis**, P. Tsiakas, Ch. Stergiopoulos, *Comparison of oral examination and electronic examination using paired multiple-choice questions*, **Computers & Education**, **56**, pp 616-624 (2011). [link](#)
- 28) A. Kyriazopoulos, C. Anastasiadis, **D. Triantis**, J. C. Brown, *Non-destructive evaluation of cement-based materials from pressure-stimulated electrical emission - Preliminary results*, **Construction and Building Materials**, **25**, pp 1980–1990 (2011). [link](#)
- 29) A. Kyriazopoulos, I. Stavrakas, C. Anastasiadis, **D. Triantis**, *Study of weak electric current emission on cement mortar under uniaxial compressional mechanical stress up to the vicinity of fracture*, **S. V. - Journal of Mechanical Engineering**, **57**, pp 235-242 (2011). [link](#)
- 30) A. Kyriazopoulos, I. Stavrakas, K. Ninos, C. Anastasiadis, **D. Triantis**, *Pressure Stimulated Current emissions on cement paste samples under repetitive stepwise compressional loadings*, **S. V. - Journal of Mechanical Engineering**, **56**, pp 551-556 (2010). [link](#)
- 31) C. Tsonos, A. Kanapitsas, **D. Triantis**, C. Anastasiadis, I. Stavrakas, P. Pissis, *Low Temperature Dielectric Relaxations in ZnO Varistor*, **Japanese Journal of Applied Physics**, **49** (2010) 051102. [link](#)
- 32) A. Kanapitsas, C. Tsonos, **D. Triantis**, I. Stavrakas, C. Anastasiadis, P. Photopoulos, P. Pissis, V. Em. Vamvakas, *Thermally activated conduction mechanisms in Silicon Nitride MIS structures*, **Thin Solid Films**, **518**, pp 2357–2360 (2010). [link](#)
- 33) E. Ventouras, **D. Triantis**, P. Tsiakas, Ch. Stergiopoulos, *Comparison of examination methods based on multiple-choice questions and constructed-response questions using personal computers*, **Computers & Education**, **54**, pp 455-451 (2010). [link](#)
- 34) C. Tsonos, I. Stavrakas, C. Anastasiadis, A. Kyriazopoulos, A. Kanapitsas, **D. Triantis**, *Probing the microstructure of cement mortars through dielectric parameters' variation*, **Journal of Physics and Chemistry of Solids**, **70**, pp 576-583 (2009). [link](#)
- 35) P. Kyriazis, C. Anastasiadis, I. Stavrakas, **D. Triantis**, J. Stonham, *Modelling of electric signals stimulated by bending of rock beams*, **International Journal of Microstructure and Materials Properties**, **4**, pp 5-18 (2009). [link](#)
- 36) **D. Triantis**, C. Anastasiadis, and I. Stavrakas, *The Correlation of Electrical Charge with Strain on Stressed Rock Samples*, **Natural Hazards and Earth System Sciences**, **8**, pp 1243–1248 (2008). [link](#)

- 37) V. Saltas, F. Vallianatos, **D. Triantis**, *Dielectric properties of non-swelling bentonite*, **Journal of Non-Crystalline Solids**, **354**, pp 5533–5541 (2008). [link](#)
- 38) F. Vallianatos, **D. Triantis**, *Scaling in Pressure Stimulated Currents related with Rock Fracture*, **Physica A**, **387**, pp 4940-4946 (2008). [link](#)
- 39) **D. Triantis**, C. Anastasiadis, P. Tsiakas, Ch. Stergiopoulos, *Asynchronous teaching methods and electronic assessment applied to students of the module: Physics of Semiconductor Devices*, **Journal of Materials Education**, **29**, pp 133-140 (2007). [link](#)
- 40) **D. Triantis**, C. Anastasiadis, F. Vallianatos, P. Kyriazis, G. Nover, *Electric signal emissions during repeated abrupt uniaxial compressional stress steps in amphibolite from KTB drilling*, **Natural Hazards and Earth System Sciences**, **7**, pp 149-154 (2007). [link](#)
- 41) C. Anastasiadis, **D. Triantis**, C. A. Hogarth, *Comments on the phenomena underlying pressure stimulated currents (PSC) in dielectric rock materials*, **Journal of Materials Science**, **42**, pp 2538-2542 (2007). [link](#)
- 42) V. Saltas, F. Vallianatos, P. Soupios, J. P. Makris, **D. Triantis**, *Dielectric and conductivity measurements as proxy method to monitor contamination in sandstone*, **Journal of Hazardous Materials**, **142**, pp 520-525 (2007). [link](#)
- 43) C. Anastasiadis, I. Stavrakas, **D. Triantis**, F. Vallianatos, *Correlation of pressure stimulated currents in rocks with the damage variable*, **Annals of Geophysics**, **50**, pp 1-6 (2007). [link](#)
- 44) V. Saltas, **D. Triantis**, T. Manios, F. Vallianatos, *Biomonitoring of environmental pollution using dielectric properties of tree leaves*, **Environmental Monitoring and Assessment**, **133**, pp 69–78 (2007). [link](#)
- 45) P. Kyriazis, C. Anastasiadis, **D. Triantis**, F. Vallianatos, *Wavelet analysis on Pressure Stimulated Currents emitted by marble samples*, **Natural Hazards and Earth System Sciences**, **6**, pp 889-894 (2006). [link](#)
- 46) C. Anastasiadis, I. Stavrakas, **D. Triantis**, A. Kyriazopoulos, K. Ninos, *Rock damage estimation with dielectric loss ( $\tan\delta$ ) measurements*, **International Journal of Microstructure and Materials Properties**, **1**, pp 421-429 (2006). [link](#)
- 47) **D. Triantis**, I. Stavrakas, C. Anastasiadis, A. Kyriazopoulos, F. Vallianatos, *An analysis of Pressure Stimulated Currents (PSC), in marble samples under mechanical stress*, **Physics and Chemistry of the Earth**, **31**, pp 234-239 (2006). [link](#)
- 48) P. Tsiakas, C. Stergiopoulos, M. Kaitsa, **D. Triantis**, *New technologies applied in the educational process in the TEI of Athens. The case of “e-education” platform and electronic examination of students. Results*, **WSEAS Transactions on Advances in Engineering Education**, **2**, pp 192-196 (2005). [link](#)
- 49) I. Stavrakas, **D. Triantis**, C. Anastasiadis, *The Influence of externally applied uniaxial stress on Isothermal Depolarization Current mechanisms on rock samples*, **Journal of Materials Science**, **40**, pp 4593-4596 (2005). [link](#)
- 50) G. Hloupis, I. Stavrakas, V. Saltas, **D. Triantis**, F. Vallianatos, J. Stonham, *Identification of contamination in sandstone by means of dielectric and conductivity measurements*, **WSEAS Transactions on Circuits and Systems**, **4**, pp 148-156 (2005).
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- 53) C. Anastasiadis, **D. Triantis**, I. Stavrakas, F. Vallianatos, *Pressure stimulated currents (PSC) in marble samples after the application of various stress modes before fracture*, **Annals of Geophysics**, **47**, pp 21-28 (2004). [link](#)
- 54) F. Vallianatos, **D. Triantis**, A. Tzanis, C. Anastasiadis, I. Stavrakas, *Electric Earthquake Precursors: From Laboratory Results to Field Observations*, **Physics and Chemistry of the Earth**, **29**, pp 339-351 (2004). [link](#)
- 55) **D. Triantis**, I. Stavrakas, P. Tsiakas, C. Stergiopoulos, D. Ninos, *A pilot application of electronic examination applied to students of electronic engineering: Preliminary results*, **WSEAS Transactions on Advances in Engineering Education**, **1**, pp 26-30 (2004). [link](#)
- 56) **D. Triantis**, I. Stavrakas, C. Anastasiadis, F. Vallianatos, S. Kershaw, *Dielectric spectroscopy in crustal rocks: preliminary results from northeastern sicily (Italy) and the gulf of corinth (Greece)*, **Bulletin of the Geological Society of Greece**, **36**, pp 1925-1931 (2004). [link](#)
- 57) G. Hloupis, M. Moisi, F. Vallianatos, J. Makris, J. Stonham, **D. Triantis**, *Application of CLEAN algorithm in incomplete microtremors recordings*, **Bulletin of the Geological Society of Greece**, **36**, pp 1279-1288 (2004). [link](#)
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- 61) I. Stavrakas, C. Anastasiadis, **D. Triantis**, F. Vallianatos, *Piezo Stimulated currents in marble samples: Precursory and concurrent – with – failure signals*, **Natural Hazards and Earth System Sciences**, **3**, pp 243-247 (2003). [link](#)
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- 63) C. Anastasiadis, **D. Triantis**, *Thermally stimulated detrapping in porous silicon*, **Materials Science & Engineering B**, vol. 69-70, pp 149-151 (2000). [link](#)
- 64) D. Cavouras, I. Kandarakis, G. Panayotakis, E. Kanellopoulos, **D. Triantis**, C. Nomicos, *An investigation of the imaging characteristics of the Y<sub>2</sub>O<sub>2</sub>S:Eu phosphor for application in x-ray detectors of digital mammography*, **Applied Radiation and Isotopes**, **49**, pp 931-937 (1998). [link](#)
- 65) D. Cavouras, I. Kandarakis, G. Panayotakis, A. Bakas, **D. Triantis**, C. Nomicos, *An experimental method to determine the effective luminescence efficiency of scintillator-photodetector combinations used in x-ray medical imaging systems*, [link](#)

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- 70) **D. Triantis**, C. Anastasiadis, *ITC measurements on LiH:Ca<sup>+2</sup> and LiD:Mg<sup>+2</sup> crystals*, **Journal of Electrostatics**, **22**, pp **37-42 (1988)**. [link](#)
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- 72) **D. Triantis**, D. Kostopoulos, *Thermal depolarization of sodium iodide doped with calcium*, **J. Phys. C: Solid State**, **15**, pp **4037-4041 (1982)**. [link](#)

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1. C. Stergiopoulos, I. Stavrakas, **D. Triantis**, G. Hloupis, F. Vallianatos, [The Use of PSC Technique to Estimate the Damage Extension During Three Point Bending Test](#), **Mechanical and Materials Engineering of Modern Structure and Component Design**, Volume **70**, pp. **363-372**, of the series **Advanced Structured Materials**, © Springer International Publishing Switzerland 2015, ISBN 978-3-319-19442-
2. **Dimos Triantis**, Errikos-Chaim Ventouras, [Paired Multiple Choice Questionnaires: A Novel Assessment Tool](#), **Handbook of Research on Applied Learning Theory and Design in Modern Education**, A volume in the **Advances in Educational Technologies and Instructional Design (AETID)**, Book Series, IGI Global, Chapter **33**, p. **688-713 (2015)**
3. **Triantis, D.**, Ventouras, E., Leraki, I., Stergiopoulos, C., Stavrakas, I., & Hloupis, G. (2015). [Comparing Multiple-Choice and Constructed Response Questions Applied to Engineering Courses](#). In *Computer Supported Education* (pp. 130-140). Springer International Publishing.
4. **Dimos Triantis**, Errikos Ventouras, [Enhancing electronic examinations through advanced multiple-choice questionnaires](#), in **Higher Education Institutions and Learning Management Systems: Adoption and Standardization**, Eds: Rosalina Babo, Ana Azevedo, IGI Global, ISBN 978-1-60960-884-2 (hardcover), Chapter **9**, **178-198 (2011)**.

## Papers in refereed Conference Proceedings: 81

- 1) **D. Triantis**, E. D. Pasiou, I. Stavrakas, I. Dakanali, S. K. Kourkoulis, [Correlation of pressure stimulated currents and acoustic emissions during 3PB of cement-mortar beams and the role of loading rate](#), **Structural Integrity Procedia 3 (2017) 346–353** (XXIV Italian Group of Fracture Conference, 1-3 March 2017, Urbino, Italy)
- 2) S. K. Kourkoulis, **D. Triantis**, I. Stavrakas, E. D. Pasiou and I. Dakanali, [Recording the mechanical response and fracture of marble DENT specimens using modern sensing techniques](#), **Structural Integrity Procedia 3 (2017) 326–333** (XXIV Italian Group of Fracture Conference, 1-3 March 2017, Urbino, Italy)
- 3) Z.S. Metaxa, E.D. Pasiou, I. Dakanali, I. Stavrakas, **D. Triantis**, S.K. Kourkoulis, [Carbon nanotube reinforced mortar as a sensor to monitor the structural integrity of restored marble epistyles under shear](#), **Procedia Structural Integrity 2 (2016) 2833–2840** (21st European Conference on Fracture, ECF21, 20-24 June 2016, Catania, Italy).
- 4) I. Dakanali, I. Stavrakas, **D. Triantis** and S. K. Kourkoulis, [Pull-out of threaded reinforcing bars from marble blocks](#), **Procedia Structural Integrity 2 (2016) 2865–2872** (21st European Conference on Fracture, ECF21, 20-24 June 2016, Catania, Italy)
- 5) S. K. Kourkoulis, E. D. Pasiou, **D. Triantis**, I. Stavrakas, G. Hloupis, [Innovative Experimental Techniques in the Service of Restoration of Stone Monuments-Part I: the Experimental Set up](#), **Procedia Engineering, (2015) Vol. 109, 268-275**, XXIII Italian Group of Fracture Meeting, IGFXIII.
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- 9) **D. Triantis**, I. Stavrakas, C. Anastasiadis and K. Moutzouris, *Electrical conductivity of polyurethane (PU) based fibro-porous membranes. Proceedings of the International Conference “SCience in TEchnology - SCinTE – 2015, vol.2, pp. 21-23*
- 10) I. Stavrakas, **D. Triantis**, P. Photopoulos, A. Kanapitsas and C. Tsonos, *Thermally stimulated discharge current (TSDC) characteristics in PVDF–graphene nanocomposites. Proceedings of the International Conference “SCience in TEchnology - SCinTE – 2015, vol.2, pp. 17-20*
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- 13) **D. Triantis** and I. Stavrakas, *Acoustic Emissions Experimental Technique used to verify Kaiser effect during compressional tests of Dionysos marble*. **Proceedings of the International Conference Science in Technology, SCinTE-2015, vol.1 pp. 23-26.**
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- 15) I. Stavrakas, **D. Triantis**, A. Kyriazopoulos, K. Ninos, Pressure Stimulated Currents and Acoustic Emission combined recordings for the detection of compressive strength of Dionysos marble. **Proceedings of the International Conference Science in Technology, SCinTE-2015, vol.1 pp. 19-22.**
- 16) Kyriazopoulos, I. Stavrakas, C. Anastasiadis, **D. Triantis**, [\*Analysis of Acoustic Emissions from Cement Beams when Applying Three-Point Bending with Different Loading Rates\*](#). **Proceedings of the 6th International Conference on Theoretical and Applied Mechanics (TAM '15) Salerno, Italy June 27-29, 2015, pp. 57-63.**
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- 19) S.K. Kourkoulis, E.D. Pasiou, I. Stavrakas, G. Hloupis, **D. Triantis**, K. Moutzouris, *An experimental study of the mechanical response of a typical epistyles' connection under pure shear*, **Proc. 39th Solid Mechanics Conference, Poland, Sept. 1-5, 2014, pp. 125-126.**
- 20) Anastasios Tsolakidis, Cleo Sgouropoulou, Evangelia Triperina, Panos Kakoulidis and **Dimos Triantis**, *Building VIVO-based research management infrastructure for Higher Education: the IREMA case*, **Proc. 5th VIVO Conference, August 6-8, Austin, TX, 2014, paper number 11, pages 9.**
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