

Publications

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Scopus: 1608 (h-index = 24) [[link](#)]
Research gate: 2014 (h-index = 25) [[link](#)]
Google Scholar: 2389 (h-index = 27) [[link](#)]

9/2022

Refereed Publications in Journals [sort on date newest] : 101

- 1) **Triantis, D.**; Loukidis, A.; Stavrakas, I.; Pasiou, E.D.; Kourkoulis, S.K., *Attenuation of the Acoustic Activity in Cement Beams under Constant Bending Load Closely Approaching the Fracture Load*, **Foundations** **2022**, **2**, 590–606. [[link](#)]
- 2) A. Loukidis, Jennifer Perez-Oregon, Ermioni D Pasiou, Stavros K Kourkoulis, Nicholas Sarlis and **Dimos Triantis**, *Natural time analysis of acoustic emissions before fracture: Results compatible with the Bak-Tang-Wiesenfeld model*, **EPL**, **139** (2022) 12004. [[link](#)]
- 3) Loukidis, A.; Stavrakas, I.; **Triantis, D.** *Electrical Methods for Sensing Damage in Cement Mortar Beams Combined with Acoustic Emissions*. **Materials** **2022**, **15**, 4682. [[link](#)]
- 4) Stavros K. Kourkoulis, Ermioni D. Pasiou, Christos F. Markides, Andronikos Loukidis, Ilias Stavrakas, **Dimos Triantis**, *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**, doi.org/10.1108/ijbpa-02-2022-0032. [[link](#)]
- 5) **Dimos Triantis**, Ilias Stavrakas, Andronikos Loukidis, Ermioni D. Pasiou, Stavros K. Kourkoulis, *Exploring the acoustic activity in brittle materials in terms of the position of the acoustic sources and the power of the acoustic signals—Part I: Founding the approach*, **Forces in Mechanics** **7** (2022) 100088 [[link](#)]
- 6) Panos Photopoulos and **Dimos Triantis**, *"Problem-Solving Multiple-Response Tests: Guessing is not a Favourable Strategy"* **International Journal of Learning and Teaching**, Vol. **8**, No. **1**, pp. 64-70, March 2022. [[link](#)]
- 7) Kourkoulis, S.K.; Pasiou, E.D.; Loukidis, A.; Stavrakas, I.; **Triantis, D.** *Comparative Assessment of Criticality Indices Extracted from Acoustic and Electrical Signals Detected in Marble Specimens*. **Infrastructures** **2022**, **7**, 15 [[link](#)]
- 8) Loukidis, A.; **Triantis, D.**; Stavrakas, I.; Pasiou, E.D.; Kourkoulis, S.K., *Detecting Criticality by Exploring the Acoustic Activity in Terms of the "Natural-Time" Concept*, **Appl. Sci.** **2022**, **12**, 231. [[link](#)]

- 9) Kourkoulis, S.K., Markides, Ch. F., Pasiou, E.D., Loukidis, A., **Triantis, D.**, *The critical influence of some “tiny” geometrical details on the stress field in a Brazilian Disc with a central notch of finite width and length*, **Fracture and Structural Integrity**, **59 (2022) 405-422.** [link](#)
- 10) **Triantis, D.**, Pasiou, E.D., Stavrakas, I., S. K. Kourkoulis. *Hidden Affinities between Electric and Acoustic Activities in Brittle Materials at Near-Fracture Load Levels.* **Rock Mechanics and Rock Engineering (2022).** <https://doi.org/10.1007/s00603-021-02711-9>. [link](#)
- 11) Panagiotis Photopoulos, Christos Tsonos, Ilias Stavrakas and **Dimos Triantis**, *A method for the calculation the activation energies of thermally stimulated depolarization current peaks: Application in Polyvinylidene Fluoride/Graphene Nanocomposites*, **Physica B: Physics of Condensed Matter**, **622, 2021, 413338.** [link](#)
- 12) Andronikos Loukidis, **Dimos Triantis**, Ilias Stavrakas, *Non-extensive statistical analysis of acoustic emissions: The variability of entropic index q during loading of brittle materials until fracture*, **Entropy** **2021, 23, 276.** [link](#)
- 13) Andronikos Loukidis, Jennifer Perez-Oregon, Ermioni Pasiou, Nicholas Sarlis, **Dimos Triantis**, *Similarity of fluctuations in critical systems: Acoustic emissions observed before fracture*, **Physica A** **566 (2021) 125622** [link](#)
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- 16) **Dimos Triantis**, Dimitri K. Tsaousi, Ilias Stavrakas, Ermioni D. Pasiou, Panagiotis Douvis, Stavros K. Kourkoulis, *Electric and acoustic activity in notched fiber-reinforced concrete beams under three point bending*, **Materials Today: Proceedings** **32 (2020) 148–155.** [link](#)
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- 18) Mastrogiannis D, Andreopoulos SI, Potirakis SM, Stavrakas I, **Triantis D**, Pasiou ED, *Modelling acoustic and electric signals emitted during structural tests in terms of log-periodic power-law models.* **Material Design and Processing Communication**, **2020;1–9**, <https://doi.org/10.1002/mdp2.134> [link](#)
- 19) Andronikos Loukidis, Ermioni D. Pasiou, Nicholas V. Sarlis, **Dimos Triantis**, *Fracture analysis of typical construction materials in natural time*, **Physica A**, **547, 123831, 2020.** [link](#)
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- 21) Stavrakas, I., Kourkoulis, S. and **Triantis, D.** (2019) “*Damage evolution in marble under uniaxial compression monitored by Pressure Stimulated Currents and Acoustic Emissions*”, **Fracture and Structural Integrity**, **13(50)**, pp. 573-583 [link](#)

- 22) Koutsoumpos, S.; Giannios, P.; **Triantis, D.**; Moutzouris, K. *Critical-Angle Differential Refractometry of Lossy Media: A Theoretical Study and Practical Design Issues*. **Instruments** **2019**, **3**, 36 [link](#)
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- 24) E. D. Pasiou, I. Stavrakas, **D. Triantis**, S. K. Kourkoulis, *Marble epistyles under shear: an experimental study of the role of "Relieving Space*, **Front. Struct. Civ. Eng.** (2019), <https://doi.org/10.1007/s11709-019-0515-9> [link](#)
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- 30) Pasiou, E. D., **Triantis, D.**, *Correlation between the electric and acoustic signals emitted during compression of brittle materials*. **Fracture and Structural Integrity**, **40**, 41-51 (2017). [link](#)
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- 37) Alex Alexandridis, Eva Chondrodima, Evangelos Efthimiou, Giorgos Papadakis, Filippas 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](#)
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