

Publications:

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Citations:

Scopus: 2102 (h-index = 27) [[link](#)]
Research gate: 2523 (h-index = 28) [[link](#)]
Google Scholar: 2968 (h-index = 30) [[link](#)]

May-24

Refereed Publications in Journals [sort on date newest] : 113

- 1) Kourkoulis, S.K., Pasiou, E.D., Stavrakas, I., **Triantis, D.**, *Assessing structural integrity of non-homogeneous systems by means of Acoustic Emissions and Non-Extensive Statistical Mechanics*, **Frattura ed Integrità Strutturale**, **68 (2024) 440-457.** [[link](#)]
- 2) **Dimos Triantis**, Ilias Stavrakas, 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 II: Applications*, **Forces in Mechanics, Volume 15, 2024, 100265** [[link](#)]
- 3) Christakis, I.; Tsakiridis, O.; Sarri, E.; **Triantis, D.**; Stavrakas, I. *Nonlinear Regression Approach as a Correction Factor of Measurements of Low-Cost Electrochemical Air Quality Sensors*. **Appl. Sci.** **2024, 14, 3282** [[link](#)]
- 4) **Triantis, D.**; Pasiou, E.D.; Stavrakas, I.; Kourkoulis, S.K. *Revealing the Proximity of Concrete Specimens to Their Critical Damage Level by Exploring the Cumulative Counts of the Acoustic Emissions in the Natural Time Domain*. **Materials** **2024, 17, 1017** [[link](#)]
- 5) **Dimos Triantis**, Nicholas V. Sarlis, Andronikos Loukidis, Ermioni D. Pasiou, Ilias Stavrakas, Stavros K. Kourkoulis, *Criticality indices provided by the evolution of Pressure Stimulated Currents and Acoustic Emissions in the Natural Time Domain*, **Theoretical and Applied Fracture Mechanics, Volume 128, 2023, 104115** [[link](#)]
- 6) **Triantis, D.**; Stavrakas, I.; Loukidis, A.; Pasiou, E.D.; Kourkoulis, S.K. *Spatio-Temporal Distribution of the Sources of Acoustic Events in Notched Fiber-Reinforced Concrete Beams under Three-Point Bending*. **Materials** **2023, 16, 5118.** [[link](#)]
- 7) **Triantis, D.**; Stavrakas, I.; Loukidis, A.; Pasiou, E.D.; Kourkoulis, S.K. *A Study on the Fracture of Cementitious Materials in Terms of the Rate of Acoustic Emissions in the Natural Time, Domain*. **Appl. Sci.** **2023, 13, 6261.** [[link](#)]
- 8) Loukidis, A.; Stavrakas, I.; **Triantis, D.** *Non-Extensive Statistical Mechanics in Acoustic Emissions: Detection of Upcoming Fracture in Rock Materials*. **Appl. Sci.** **2023, 13, 3249.** [[link](#)]
- 9) Loukidis, A.; Tzagkarakis, D.; Kyriazopoulos, A.; Stavrakas, I.; **Triantis, D.** *Correlation of Acoustic Emissions with Electrical Signals in the Vicinity of Fracture in Cement Mortars Subjected to Uniaxial Compressive Loading*. **Appl. Sci.** **2023, 13, 365.** [[link](#)]

- 10) Photopoulos, P., **Triantis, D.**, *Think Twice: First for Tech, Then for Ed.*, **SN Comput. Sci.** **4**, **123** (2023). [link](#)
- 11) Stavros K. Kourkoulis, Andronikos Loukidis, Ermioni D. Pasiou, Ilias Stavrakas, **Dimos Triantis**, *Response of fiber reinforced concrete while entering into the critical stage: An attempt to detect pre-failure indicators in terms of Non-Extensive Statistical Mechanics*, **Theoretical and Applied Fracture Mechanics, Volume 123, 2023, 103690.** [link](#)
- 12) P Photopoulos, C Tsonos, I Stavrakas, **D Triantis**, *Remote and In-Person Learning: Utility versus Social Experience*, **SN Comput. Sci.** **4**, **116** (2023). [link](#)
- 13) **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](#)
- 14) 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](#)
- 15) Loukidis, A.; Stavrakas, I.; **Triantis, D.** *Electrical Methods for Sensing Damage in Cement Mortar Beams Combined with Acoustic Emissions.* **Materials** **2022**, **15**, **4682.** [link](#)
- 16) 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**, Vol. 42 No. 1, 2024 pp. 175-192. [link](#)
- 17) **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](#)
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- 19) 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](#)
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- 21) 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](#)
- 22) **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](#)

- 23) 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](#)
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- 28) **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](#)
- 29) **Dimos Triantis**, Ilias Stavrakas, Ermioni D Pasiou, Stavros K Kourkoulis, *Assessing the acoustic activity in marble specimens understepwise compressive loading*, **Mat. Design Process Comm.** **2020**; **2**: **e100**. [link](#)
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