

# Gianni Niccolini

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

684  
citations

623188

14  
h-index

676716

22  
g-index

32  
all docs

32  
docs citations

32  
times ranked

449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic and Electromagnetic Emissions as Precursor Phenomena in Failure Processes. <i>Strain</i> , 2011, 47, 144-152.	1.4	105
2	Critical Behaviour in Concrete Structures and Damage Localization by Acoustic Emission. <i>Key Engineering Materials</i> , 2006, 312, 305-310.	0.4	103
3	Electromagnetic and neutron emissions from brittle rocks failure: Experimental evidence and geological implications. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2012, 37, 59-78.	0.8	57
4	Acoustic Emissions at High and Low Frequencies During Compression Tests in Brittle Materials. <i>Strain</i> , 2011, 47, 105-110.	1.4	53
5	Morphological Fractal Dimension Versus Power-law Exponent in the Scaling of Damaged Media. <i>International Journal of Damage Mechanics</i> , 2009, 18, 259-282.	2.4	48
6	Acoustic Emission Monitoring of the Syracuse Athena Temple: Scale Invariance in the Timing of Ruptures. <i>Physical Review Letters</i> , 2011, 106, 108503.	2.9	37
7	AE monitoring of a concrete arch road tunnel: Damage evolution and localization. <i>Engineering Fracture Mechanics</i> , 2019, 210, 279-287.	2.0	36
8	ONSET TIME DETERMINATION OF ACOUSTIC AND ELECTROMAGNETIC EMISSION DURING ROCK FRACTURE. <i>Progress in Electromagnetics Research Letters</i> , 2012, 35, 51-62.	0.4	34
9	A study on the structural stability of the Asinelli Tower in Bologna. <i>Structural Control and Health Monitoring</i> , 2016, 23, 659-667.	1.9	30
10	Scaling in damage by electrical resistance measurements: an application to the terracotta statues of the Sacred Mountain of Varallo Renaissance Complex (Italy). <i>Rendiconti Lincei</i> , 2015, 26, 203-209.	1.0	25
11	Acoustic emission monitoring of Italian historical buildings and the case study of the Athena temple in Syracuse. <i>Architectural Science Review</i> , 2015, 58, 290-299.	1.1	23
12	Crackling noise and universality in fracture systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P01023.	0.9	22
13	Nondestructive Monitoring Techniques for Crack Detection and Localization in RC Elements. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3248.	1.3	21
14	Criticality Hidden in Acoustic Emissions and in Changing Electrical Resistance during Fracture of Rocks and Cement-Based Materials. <i>Materials</i> , 2020, 13, 5608.	1.3	19
15	Fracture precursors in a working girder crane: AE natural-time and b-value time series analyses. <i>Engineering Fracture Mechanics</i> , 2019, 210, 393-399.	2.0	12
16	Long-Range Correlations and Natural Time Series Analyses from Acoustic Emission Signals. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1980.	1.3	10
17	Analysis of Acoustic Emission Activity during Progressive Failure in Heterogeneous Materials: Experimental and Numerical Investigation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3918.	1.3	10
18	Signal frequency distribution and natural-time analyses from acoustic emission monitoring of an arched structure in the Castle of Racconigi. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1025-1032.	1.5	9

#	ARTICLE	IF	CITATIONS
19	Time Series Analysis of Acoustic Emissions in the Asinelli Tower during Local Seismic Activity. Applied Sciences (Switzerland), 2018, 8, 1012.	1.3	8
20	Correlation between Earthquakes and AE Monitoring of Historical Buildings in Seismic Areas. Applied Sciences (Switzerland), 2015, 5, 1683-1698.	1.3	6
21	Possible Assessment of Calf Venous Pump Efficiency by Computational Fluid Dynamics Approach. Frontiers in Physiology, 2020, 11, 1003.	1.3	4
22	A portable light weight system for saffron harvesting. , 2014, , .		2
23	Critical Behaviour in Concrete Structures and Damage Localization by Acoustic Emission. Key Engineering Materials, 0, , 305-310.	0.4	2
24	Home automation systems and PMV classification for moderate confined environments. , 2014, , .		1
25	Health Monitoring of Medieval Masonry Towers by an Acoustic Emission Approach. Key Engineering Materials, 2019, 817, 586-593.	0.4	1
26	Acoustic emission of the Syracuse Athena temple: timescale invariance from microcracking to earthquakes. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P09009.	0.9	0
27	Monitoring of the "twin towers" of Bologna in Italy. , 2020, 67, .		0