Giuseppe Lacidogna

List of Publications by Year
in descending order

146 papers	4,453 citations	81900 39 h-index	123424 61 g-index
159 all docs	159 docs citations	159 times ranked	2056 citing authors

#	Article	IF	Citations
1	Structural damage diagnosis and life-time assessment by acoustic emission monitoring. Engineering Fracture Mechanics, 2007, 74, 273-289.	4.3	243
2	From criticality to final collapse: Evolution of the â€œb-valueâ€•from 1.5 to 1.0. Chaos, Solitons and Fractals, 2009, 41, 843-853.	5.1	168
3	Reliable onset time determination and source location of acoustic emissions in concrete structures. Cement and Concrete Composites, 2012, 34, 529-537.	10.7	146
4	Influence of damage in the acoustic emission parameters. Cement and Concrete Composites, 2013, 44, 9-16.	10.7	119
5	Critical defect size distributions in concrete structures detected by the acoustic emission technique. Meccanica, 2008, 43, 349-363.	2.0	110
6	Acoustic and Electromagnetic Emissions as Precursor Phenomena in Failure Processes. Strain, 2011, 47, 144-152.	2.4	105
7	Critical Behaviour in Concrete Structures and Damage Localization by Acoustic Emission. Key Engineering Materials, 2006, 312, 305-310.	0.4	103
8	Localization of acoustic emission sources in structural health monitoring of masonry bridge. Structural Control and Health Monitoring, 2015, 22, 314-329.	4.0	100
9	In situ damage assessment and nonlinear modelling of a historical masonry tower. Engineering Structures, 2005, 27, 387-395.	5.3	99
10	Damage evaluation of three masonry towers by acoustic emission. Engineering Structures, 2007, 29, 1569-1579.	5.3	96
11	Acoustic emission data analyses based on crumb rubber concrete beam bending tests. Engineering Fracture Mechanics, 2019, 210, 189-202.	4.3	92
12	Energy Emissions from Failure Phenomena: Mechanical, Electromagnetic, Nuclear. Experimental Mechanics, 2010, 50, 1235-1243.	2.0	88
13	A multilevel approach for the damage assessment of Historic masonry towers. Journal of Cultural Heritage, 2010, 11, 459-470.	3.3	88
14	Heterogeneous materials in compression: Correlations between absorbed, released and acoustic emission energies. Engineering Failure Analysis, 2013, 33, 236-250.	4.0	87
15	Damage Monitoring of an Historical Masonry Building by the Acoustic Emission Technique. Materials and Structures/Materiaux Et Constructions, 2007, 39, 161-167.	3.1	82
16	Acoustic emission detection in concrete specimens: Experimental analysis and lattice model simulations. International Journal of Damage Mechanics, 2014, 23, 327-358.	4.2	82
17	Micro-cracking monitoring and fracture evaluation for crumb rubber concrete based on acoustic emission techniques. Structural Health Monitoring, 2018, 17, 946-958.	7.5	82
18	Piezonuclear neutrons from fracturing of inert solids. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4158-4163.	2.1	79

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19	Mechanical and Electromagnetic Emissions Related to Stress-Induced Cracks. Experimental Techniques, 2012, 36, 53-64.	1.5	77
20	Damage analysis of reinforced concrete buildings by the acoustic emission technique. Structural Control and Health Monitoring, 2011, 18, 660-673.	4.0	76
21	Structural Monitoring and Integrity Assessment of Medieval Towers. Journal of Structural Engineering, 2006, 132, 1681-1690.	3.4	73
22	Fractal analysis of damage detected in concrete structural elements under loading. Chaos, Solitons and Fractals, 2009, 42, 2047-2056.	5.1	73
23	Piezonuclear Neutrons From Brittle Fracture: Early Results of Mechanical Compression Tests¹. Strain, 2009, 45, 332-339.	2.4	69
24	Scaling of energy dissipation in crushing and fragmentation: a fractal and statistical analysis based on particle size distribution. International Journal of Fracture, 2004, 129, 131-139.	2.2	68
25	Acoustic emission monitoring and numerical modeling of FRP delamination in RC beams with non-rectangular cross-section. Materials and Structures/Materiaux Et Constructions, 2007, 40, 553-566.	3.1	67
26	A review on acoustic emission monitoring for damage detection in masonry structures. Construction and Building Materials, 2021, 268, 121089.	7.2	61
27	Electromagnetic and neutron emissions from brittle rocks failure: Experimental evidence and geological implications. Sadhana - Academy Proceedings in Engineering Sciences, 2012, 37, 59-78.	1.3	57
28	Multi-technique damage monitoring of concrete beams: Acoustic Emission, Digital Image Correlation, Dynamic Identification. Construction and Building Materials, 2020, 242, 118114.	7.2	57
29	Acoustic Emissions at High and Low Frequencies During Compression Tests in Brittle Materials. Strain, 2011, 47, 105-110.	2.4	53
30	The bâ€Value Analysis for the Stability Investigation of the Ancient Athena Temple in Syracuse. Strain, 2011, 47, e243.	2.4	52
31	Three different approaches for damage domain characterization in disordered materials: Fractal energy density, b-value statistics, renormalization group theory. Mechanics of Materials, 2012, 53, 15-28.	3.2	52
32	Damage monitoring of three-point bending concrete specimens by acoustic emission and resonant frequency analysis. Engineering Fracture Mechanics, 2019, 210, 203-211.	4.3	49
33	Morphological Fractal Dimension Versus Power-law Exponent in the Scaling of Damaged Media. International Journal of Damage Mechanics, 2009, 18, 259-282.	4.2	48
34	Evaluation of the repair on multiple leaf stone masonry by acoustic emission. Materials and Structures/Materiaux Et Constructions, 2008, 41, 1169-1189.	3.1	47
35	Neutron emissions in brittle rocks during compression tests: Monotonic vs. cyclic loading. Physical Mesomechanics, 2010, 13, 268-274.	1.9	47
36	Durability evaluation of reinforced masonry by fatigue tests and acoustic emission technique. Structural Control and Health Monitoring, 2014, 21, 950-961.	4.0	46

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37	Experimental analysis and truss-like discrete element model simulation of concrete specimens under uniaxial compression. Engineering Fracture Mechanics, 2013, 110, 81-98.	4.3	45
38	Historical brick-masonry subjected to double flat-jack test: Acoustic emissions and scale effects on cracking density. Construction and Building Materials, 2009, 23, 2813-2820.	7.2	43
39	Piezonuclear Fission Reactions from Earthquakes and Brittle Rocks Failure: Evidence of Neutron Emission and Non-Radioactive Product Elements. Experimental Mechanics, 2013, 53, 345-365.	2.0	43
40	Damage process in heterogeneous materials analyzed by a lattice model simulation. Engineering Failure Analysis, 2016, 70, 157-176.	4.0	40
41	Richter's laws at the laboratory scale interpreted by acoustic emission. Magazine of Concrete Research, 2006, 58, 619-625.	2.0	38
42	Acoustic Emission Monitoring of the Syracuse Athena Temple: Scale Invariance in the Timing of Ruptures. Physical Review Letters, 2011, 106, 108503.	7.8	37
43	Acoustic Emission and Modal Frequency Variation in Concrete Specimens under Four-Point Bending. Applied Sciences (Switzerland), 2017, 7, 339.	2.5	37
44	Damage process in glass fiber reinforced polymer specimens using acoustic emission technique with low frequency acquisition. Composite Structures, 2021, 256, 113105.	5.8	37
45	A robust method to estimate the b-value of the magnitudeâ€"frequency distribution of earthquakes. Chaos, Solitons and Fractals, 2015, 81, 103-110.	5.1	35
46	ONSET TIME DETERMINATION OF ACOUSTIC AND ELECTROMAGNETIC EMISSION DURING ROCK FRACTURE. Progress in Electromagnetics Research Letters, 2012, 35, 51-62.	0.7	34
47	Piezonuclear Fission Reactions in Rocks: Evidences from Microchemical Analysis, Neutron Emission, and Geological Transformation. Rock Mechanics and Rock Engineering, 2012, 45, 445-459.	5.4	32
48	AE Monitoring and Numerical Simulation of a Twoâ€span Model Masonry Arch Bridge Subjected to Pier Scour. Strain, 2011, 47, 158-169.	2.4	30
49	A study on the structural stability of the Asinelli Tower in Bologna. Structural Control and Health Monitoring, 2016, 23, 659-667.	4.0	30
50	Influence of snap-back instabilities on Acoustic Emission damage monitoring. Engineering Fracture Mechanics, 2019, 210, 3-12.	4.3	30
51	Prediction of cracking evolution in full scale structures by the b-value analysis and Yule statistics. Physical Mesomechanics, 2008, 11, 260-271.	1.9	26
52	Scaling in damage by electrical resistance measurements: an application to the terracotta statues of the Sacred Mountain of Varallo Renaissance Complex (Italy). Rendiconti Lincei, 2015, 26, 203-209.	2.2	25
53	Lateral load effects on tall shear wall structures of different height. Structural Engineering and Mechanics, 2012, 41, 313-337.	1.0	25
54	Self-similarity of waiting times in fracture systems. Physical Review E, 2009, 80, 026101.	2.1	24

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55	Terahertz mechanical vibrations in lysozyme: Raman spectroscopy vs modal analysis. Journal of Molecular Structure, 2017, 1139, 222-230.	3.6	24
56	Mesoscopic modeling of Acoustic Emission through an energetic approach. International Journal of Solids and Structures, 2008, 45, 5856-5866.	2.7	23
57	Acoustic emission monitoring of Italian historical buildings and the case study of the Athena temple in Syracuse. Architectural Science Review, 2015, 58, 290-299.	2.2	23
58	Crackling noise and universality in fracture systems. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01023.	2.3	22
59	Stability of the vertical bearing structures of the Syracuse Cathedral: experimental and numerical evaluation. Materials and Structures/Materiaux Et Constructions, 2009, 42, 877-888.	3.1	22
60	Structural monitoring and assessment of an ancient masonry tower. Engineering Fracture Mechanics, 2019, 210, 429-443.	4.3	22
61	A matrix-based method for the structural analysis of diagrid systems. Engineering Structures, 2019, 193, 340-352.	5.3	22
62	Size effect in heterogeneous materials analyzed through a lattice discrete element method approach. Engineering Fracture Mechanics, 2020, 232, 107041.	4.3	22
63	Particle-based numerical modeling of AE statistics in disordered materials. Meccanica, 2013, 48, 211-220.	2.0	21
64	Nondestructive Monitoring Techniques for Crack Detection and Localization in RC Elements. Applied Sciences (Switzerland), 2020, 10, 3248.	2.5	21
65	A new frequency domain method for random fatigue life estimation in a wideâ€band stationary <scp>G</scp>aussian random process. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 97-113.	3.4	20
66	Scaling in temporal occurrence of quasi-rigid-body vibration pulses due to macrofractures. Physical Review E, 2010, 82, 046115.	2.1	19
67	Criticality Hidden in Acoustic Emissions and in Changing Electrical Resistance during Fracture of Rocks and Cement-Based Materials. Materials, 2020, 13, 5608.	2.9	19
68	Structural analysis of high-rise buildings under horizontal loads: A study on the Intesa Sanpaolo Tower in Turin. Engineering Structures, 2013, 56, 1362-1371.	5.3	18
69	The Sacred Mountain of Varallo in Italy: Seismic Risk Assessment by Acoustic Emission and Structural Numerical Models. Scientific World Journal, The, 2013, 2013, 1-10.	2.1	18
70	Elastic, plastic, fracture analysis of masonry arches: A multi-span bridge case study. Curved and Layered Structures, 2018, 5, 1-9.	1.3	16
71	Damage Mechanisms Interpreted by Acoustic Emission Signal Analysis. Key Engineering Materials, 2007, 347, 577-582.	0.4	15
72	Evolutionary fracture analysis of masonry arches: Effects of shallowness ratio and size scale. Comptes Rendus - Mecanique, 2016, 344, 623-630.	2.1	15

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73	A study of the main factors affecting the performance of self-sensing concrete. Advances in Cement Research, 2017, 29, 216-226.	1.6	15
74	Towards a Unified Approach for the Analysis of Failure Modes in FRP-Retrofitted Concrete Beams. Advances in Structural Engineering, 2009, 12, 715-729.	2.4	14
75	Scaling of fracture and acoustic emission in concrete. Magazine of Concrete Research, 2013, 65, 529-534.	2.0	14
76	Evolution of the Fracturing Process in Masonry Arches. Journal of Structural Engineering, 2015, 141, .	3.4	14
77	Open and closed shear-walls in high-rise structural systems: Static and dynamic analysis. Curved and Layered Structures, 2016, 3, .	1.3	14
78	Raman spectroscopy of Na/K-ATPase with special focus on low-frequency vibrations. Vibrational Spectroscopy, 2017, 92, 298-301.	2.2	14
79	Fluctuations of 1/f Noise in Damaging Structures Analyzed by Acoustic Emission. Applied Sciences (Switzerland), 2018, 8, 1685.	2.5	14
80	New Trends Towards Enhanced Structural Efficiency and Aesthetic Potential in Tall Buildings: The Case of Diagrids. Applied Sciences (Switzerland), 2020, 10, 3917.	2.5	14
81	Tall buildings: secondary effects on the structural behaviour. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 391-405.	0.8	13
82	Medieval Arch Bridges in the Lanzo Valleys, Italy: Case Studies on Incremental Structural Analysis and Fracturing Benefit. Journal of Bridge Engineering, 2018, 23, .	2.9	13
83	Conceptual Design of Tall and Unconventionally Shaped Structures: A Handy Analytical Method. Advances in Structural Engineering, 2014, 17, 767-783.	2.4	12
84	Fracture precursors in a working girder crane: AE natural-time and b-value time series analyses. Engineering Fracture Mechanics, 2019, 210, 393-399.	4.3	12
85	Terahertz vibration modes in Na/K-ATPase. Journal of Biomolecular Structure and Dynamics, 2019, 37, 256-264.	3.5	12
86	The Elastic Wave Propagation in Rectangular Waveguide Structure: Determination of Dispersion Curves and Their Application in Nondestructive Techniques. Applied Sciences (Switzerland), 2020, 10, 4401.	2.5	12
87	A finite-element-based coarse-grained model for global protein vibration. Meccanica, 2019, 54, 1927-1940.	2.0	11
88	Diagrid systems coupled with closed- and open-section shear walls: Optimization of geometrical characteristics in tall buildings. Procedia Manufacturing, 2020, 44, 402-409.	1.9	11
89	Numerical Models for the Assessment of Historical Masonry Structures and Materials, Monitored by Acoustic Emission. Applied Sciences (Switzerland), 2016, 6, 102.	2.5	10
90	Structural Analysis of High-rise Buildings under Horizontal Loads: A Study on the Piedmont Region Headquarters Tower in Turin. Open Construction and Building Technology Journal, 2019, 13, 81-96.	0.7	10

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91	Long-Range Correlations and Natural Time Series Analyses from Acoustic Emission Signals. Applied Sciences (Switzerland), 2022, 12, 1980.	2.5	10
92	Analysis of Acoustic Emission Activity during Progressive Failure in Heterogeneous Materials: Experimental and Numerical Investigation. Applied Sciences (Switzerland), 2022, 12, 3918.	2.5	10
93	The effect of the warping deformation on the structural behaviour of thin-walled open section shear walls. Thin-Walled Structures, 2014, 84, 335-343.	5.3	9
94	Structural compliance: A new metric for protein flexibility. Proteins: Structure, Function and Bioinformatics, 2020, 88, 1482-1492.	2.6	9
95	Fractal analysis and yule statistics for seismic prediction based on 2009 Lâ€™Aquila earthquake in Italy. Arabian Journal of Geosciences, 2015, 8, 2457-2465.	1.3	8
96	Time Series Analysis of Acoustic Emissions in the Asinelli Tower during Local Seismic Activity. Applied Sciences (Switzerland), 2018, 8, 1012.	2.5	8
97	Digital Volume Correlation Applied to X-ray Micro-Tomography Images in Uniaxial Creep Tests on Anisotropic Clayey Rock. Applied Sciences (Switzerland), 2020, 10, 4898.	2.5	8
98	A Novel Life Prediction Model Based on Monitoring Electrical Properties of Self-Sensing Cement-Based Materials. Applied Sciences (Switzerland), 2021, 11, 5080.	2.5	8
99	Investigating the Micro/Macro-Texture Performance of Roller-Compacted Concrete Pavement under Simulated Traffic Abrasion. Applied Sciences (Switzerland), 2021, 11, 5704.	2.5	8
100	Damage Pattern Recognition and Crack Propagation Prediction for Crumb Rubber Concrete Based on Acoustic Emission Techniques. Applied Sciences (Switzerland), 2021, 11, 11476.	2.5	8
101	Optimization of diagrid geometry based on the desirability function approach. Curved and Layered Structures, 2020, 7, 139-152.	1.3	7
102	Design and Mechanical Characterization Using Digital Image Correlation of Soft Tissue-Mimicking Polymers. Polymers, 2022, 14, 2639.	4.5	7
103	Correlation between Earthquakes and AE Monitoring of Historical Buildings in Seismic Areas. Applied Sciences (Switzerland), 2015, 5, 1683-1698.	2.5	6
104	Acoustic emission and numerical analysis of the delamination process in repair plasters applied to historical walls. Construction and Building Materials, 2020, 236, 117798.	7.2	6
105	Safety Assessment of Masonry Arch Bridges Considering the Fracturing Benefit. Applied Sciences (Switzerland), 2020, 10, 3490.	2.5	6
106	Research on the Scope of Spectral Width Parameter of Frequency Domain Methods in Random Fatigue. Applied Sciences (Switzerland), 2020, 10, 4715.	2.5	6
107	Non-Destructive Tests for Damage Evaluation of Stone Columns: The Case Study of Sacro Monte in Ghiffa (Italy). Applied Sciences (Switzerland), 2020, 10, 2673.	2.5	6
108	Damage Evolution Analysis in a â€œSpaghettiâ€•Bridge Model Using the Acoustic Emission Technique. Applied Sciences (Switzerland), 2021, 11, 2718.	2.5	6

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109	Low-Frequency Harmonic Perturbations Drive Protein Conformational Changes. International Journal of Molecular Sciences, 2021, 22, 10501.	4.1	6
110	hdANM: a new comprehensive dynamics model for protein hinges. Biophysical Journal, 2021, 120, 4955-4965.	0.5	6
111	A global approach for threeâ€dimensional analysis of tall buildings. Structural Design of Tall and Special Buildings, 2010, 19, 518-536.	1.9	4
112	A Modified Box-Counting Method to Estimate the Fractal Dimensions. Applied Mechanics and Materials, 0, 58-60, 1756-1761.	0.2	4
113	An analytical formulation to evaluate natural frequencies and mode shapes of high-rise buildings. Curved and Layered Structures, 2021, 8, 307-318.	1.3	4
114	Modal Analysis of the Lysozyme Protein Considering All-Atom and Coarse-Grained Finite Element Models. Applied Sciences (Switzerland), 2021, 11, 547.	2.5	4
115	Masonry Structures. RILEM State-of-the-Art Reports, 2016, , 27-46.	0.7	4
116	Fatigue Analysis of FRP Strengthened Masonry by Acoustic Emission Monitoring. Key Engineering Materials, 0, 817, 594-601.	0.4	3
117	Mechanical Properties of Historic Masonry Stones Obtained by In Situ Non-Destructive Tests on the St. Agostino Church in Amatrice (Italy). Applied Sciences (Switzerland), 2021, 11, 6352.	2.5	3
118	The Sacred Mountain of Varallo Renaissance Complex in Italy: Damage Analysis of Decorated Surfaces and Structural Supports. , 2015, , 249-264.		3
119	Selection of the optimal diagrid patterns in tall buildings within a multi-response framework: Application of the desirability function. Journal of Building Engineering, 2022, 54, 104645.	3.4	3
120	Creep Behaviour in Reinforced Masonry Walls Interpreted by Acoustic Emission. Key Engineering Materials, 0, 417-418, 237-240.	0.4	2
121	Preservation, Safeguard and Valorization of Masonry Decorations in the Architectural Historical Heritage of Piedmont (Italy). Advanced Materials Research, 2010, 133-134, 1015-1020.	0.3	2
122	Modified Acoustic Emission Source Localization Method to Determine Crack Locations for Masonry Arch Bridge. Applied Mechanics and Materials, 0, 71-78, 4823-4826.	0.2	2
123	Protein Conformational Changes and Low-Frequency Vibrational Modes: A Similarity Analysis. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 7-10.	0.5	2
124	Critical Behaviour in Concrete Structures and Damage Localization by Acoustic Emission. Key Engineering Materials, 0, , 305-310.	0.4	2
125	Closure to â€œStructural Monitoring and Integrity Assessment of Medieval Towersâ€•by Alberto Carpinteri and Giuseppe Lacidogna. Journal of Structural Engineering, 2009, 135, 207-208.	3.4	1
126	Experimental and Numerical Analysis of a Two-Span Model Masonry Arch Bridge Subjected to Pier Scour. Advanced Materials Research, 2010, 133-134, 301-306.	0.3	1

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127	Numerical simulation of the fracturing processes in masonry arches. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 131-132.	0.2	1
128	AE Characterization of Brick Masonry Walls Mechanical Behavior: The Case-Study of Alessandria and Boves Barracks. Key Engineering Materials, 2019, 817, 563-570.	0.4	1
129	Health Monitoring of Medieval Masonry Towers by an Acoustic Emission Approach. Key Engineering Materials, 2019, 817, 586-593.	0.4	1
130	Detachment Monitoring of Repair Mortar Applied to Historical Masonry Stone by Acoustic Emission Technique. RILEM Bookseries, 2019, , 2197-2205.	0.4	1
131	AE in Masonry. Springer Tracts in Civil Engineering, 2022, , 361-402.	0.5	1
132	Numerical simulation of AE activity in quasi-brittle materials under compression. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 109-116.	0.5	1
133	Terahertz Protein Vibrations: The Usefulness of Coarse-Grained Numerical Models. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 1-6.	0.5	1
134	Diagrid and Hexagrid Structures: New Perspectives in Design of Tall Buildings. Open Construction and Building Technology Journal, 2021, 15, 214-217.	0.7	1
135	Diagrid and Hexagrid Structures: New Perspectives in Design of Tall Buildings. Open Construction and Building Technology Journal, 2021, 15, 221-224.	0.7	1
136	Damage Diagnosis of Single-Layer Latticed Shell Based on Temperature-Induced Strain under Bayesian Framework. Sensors, 2022, 22, 4251.	3.8	1
137	Modelling Damage Progression by a Statistical Energy-Balance Algorithm. Key Engineering Materials, 2007, 347, 435-440.	0.4	0
138	Acoustic emission of the Syracuse Athena temple: timescale invariance from microcracking to earthquakes. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P09009.	2.3	0
139	Spatial Variations of Seismic B-Values Distribution in China. Applied Mechanics and Materials, 2011, 71-78, 4819-4822.	0.2	0
140	Detachment of Plasters in Masonry Buildings: Analysis by Acoustic Emission and Numerical Simulation. Proceedings (mdpi), 2018, 2, .	0.2	0
141	Experimental Investigation on Crack Growth in Pre-Notched Concrete Beams. Proceedings (mdpi), 2018, 2, .	0.2	0
142	Exploring THz Protein Vibrations by Means of Modal Analysis: All-Atom vs Coarse-Grained Model. Lecture Notes in Mechanical Engineering, 2020, , 881-888.	0.4	0
143	Geometrically nonlinear behavior of lattice domes coupled with local Eulerian instability. Curved and Layered Structures, 2020, 7, 247-260.	1.3	0
144	Waves in Biomechanics: THz Vibrations and Modal Analysis in Proteins and Macromolecular Structures. Synthesis Lectures on Wave Phenomena in the Physical Sciences, 2021, 3, 1-92.	0.0	0

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145	Numerical Evaluation of Protein Global Vibrations at Terahertz Frequencies by means of Elastic Lattice Models. , 2020, 67, .		0
146	Diagrid and Hexagrid Structures: New Perspectives in Design of Tall Buildings. Open Construction and Building Technology Journal, 2021, 15, 214-217.	0.7	0