Rebecca K Napolitano

List of Publications by Year
in descending order

33 papers	534 citations	516710 16 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	361 citing authors

#	Article	IF	Citations
1	Unsupervised Data-Driven Methods for Damage Identification in Discontinuous Media. Structural Integrity, 2022, , 207-226.	1.4	0
2	Evaluating Facility Asset Information Needs in a Common Data Environment to Support Maintenance Workers. , 2022, , .		0
3	Smart cities built with smart materials. Science, 2021, 371, 1200-1201.	12.6	18
4	Numerical investigation on the composite action of cold-formed steel built-up battened columns. Thin-Walled Structures, 2021, 162, 107553.	5.3	34
5	Crack Detection in Images of Masonry Using CNNs. Sensors, 2021, 21, 4929.	3.8	19
6	Numerical analysis of natural rubber bearing equipped with steel and shape memory alloys dampers. Structures, 2021, 32, 1839-1855.	3.6	23
7	Quantifying the Differences in Documentation and Modeling Levels for Building Pathology and Diagnostics. Archives of Computational Methods in Engineering, 2020, 27, 1135-1152.	10.2	9
8	Cubaâ€™s National School of Ballet: Redefining a structural icon. Engineering Structures, 2020, 204, 110040.	5.3	6
9	Numerical investigation of the cyclic performance of reinforced concrete frames equipped with a combination of a rubber core and a U-shaped metallic damper. Engineering Structures, 2020, 225, 111307.	5.3	36
10	Understanding the cyclic performance of composite steel-concrete connections on steel bridges. Engineering Structures, 2020, 224, 111213.	5.3	27
11	Investigating the effects of seismic isolators on steel asymmetric structures considering soil-structure interaction. Structures, 2020, 27, 1029-1040.	3.6	23
12	Static and dynamic stability analysis of a steel-rubber isolator with rubber cores. Structures, 2020, 26, 441-455.	3.6	25
13	Hybrid physicsâ€based modeling and dataâ€driven method for diagnostics of masonry structures. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 483-494.	9.8	6
14	Numerical evaluation of the behavior of ordinary and reinforced stone columns. Structures, 2020, 25, 481-490.	3.6	11
15	Assessing the stability of unreinforced masonry arches and vaults: a comparison of analytical and numerical strategies. International Journal of Architectural Heritage, 2019, 13, 648-662.	3.1	8
16	Numerical Modeling of Crack Propagation in Masonry Structures. RILEM Bookseries, 2019, , 826-834.	0.4	5
17	Understanding the Function of Roman Bonding Courses: A Numerical Approach. RILEM Bookseries, 2019, , 1798-1806.	0.4	4
18	Documentation, structural health monitoring and numerical modelling for damage assessment of the Morris Island Lighthouse. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190002.	3.4	15

#	Article	IF	Citations
19	Tool development for digital reconstruction: A framework for a database of historic Roman construction materials. Journal of Cultural Heritage, 2019, 40, 113-123.	3.3	4
20	Combination of Image-Based Documentation and Augmented Reality for Structural Health Monitoring and Building Pathology. Frontiers in Built Environment, 2019, 5, .	2.3	26
21	Understanding the function of bonding courses in masonry construction: An investigation with mixed numerical methods. Journal of Cultural Heritage, 2019, 39, 120-129.	3.3	17
22	The Foundation Walls of the Baptistery Di San Giovanni: A Combination of Laser Scanning and Finite-Distinct Element Modeling to Ascertain Damage Origins. International Journal of Architectural Heritage, 2019, 13, 1180-1193.	3.1	15
23	Reconsidering the Vaulted Forms of Cubaâ€™s National School of Ballet. RILEM Bookseries, 2019, , 2150-2158.	0.4	6
24	Methodology for diagnosing crack patterns in masonry structures using photogrammetry and distinct element modeling. Engineering Structures, 2019, 181, 519-528.	5.3	31
25	Integrating Non-Destructive Testing, Laser Scanning, and Numerical Modeling for Damage Assessment: The Room of the Elements. Heritage, 2019, 2, 151-168.	1.9	30
26	Understanding cracks in historic structures: Quantitative assessment though numerical simulation and manifold learning. , 2019, , .		0
27	Virtual Tours and Augmented Reality for Direct Data Integration. , 2019, , .		0
28	Minimizing the adverse effects of bias and low repeatability precision in photogrammetry software through statistical analysis. Journal of Cultural Heritage, 2018, 31, 46-52.	3.3	18
29	Virtual tours and informational modeling for conservation of cultural heritage sites. Journal of Cultural Heritage, 2018, 29, 123-129.	3.3	59
30	Failure at Fidenae: Understanding the site of the largest structural disaster of the Roman world. Digital Applications in Archaeology and Cultural Heritage, 2018, 10, e00077.	1.3	2
31	Virtual Environments for Visualizing Structural Health Monitoring Sensor Networks, Data, and Metadata. Sensors, 2018, 18, 243.	3.8	29
32	Validating the Use of Graphical Thrust Line Analysis for Pier Buttresses: The Case Study of Amiens Cathedral. International Journal of Architectural Heritage, 2017, 11, 859-870.	3.1	11
33	Comparison of thrust line analysis, limit state analysis and distinct element modeling to predict the collapse load and collapse mechanism of a rammed earth arch. Engineering Structures, 2017, 148, 145-156.	5.3	17