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	Virtual tours and informational modeling for conservation of cultural heritage sites. Journal of Cultural Heritage, 2018, 29, 123-129.	3.3	59
2	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
3	Numerical investigation on the composite action of cold-formed steel built-up battened columns. Thin-Walled Structures, 2021, 162, 107553.	5.3	34
4	Methodology for diagnosing crack patterns in masonry structures using photogrammetry and distinct element modeling. Engineering Structures, 2019, 181, 519-528.	5.3	31
5	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
6	Virtual Environments for Visualizing Structural Health Monitoring Sensor Networks, Data, and Metadata. Sensors, 2018, 18, 243.	3.8	29
7	Understanding the cyclic performance of composite steel-concrete connections on steel bridges. Engineering Structures, 2020, 224, 111213.	5.3	27
8	Combination of Image-Based Documentation and Augmented Reality for Structural Health Monitoring and Building Pathology. Frontiers in Built Environment, 2019, 5, .	2.3	26
9	Static and dynamic stability analysis of a steel-rubber isolator with rubber cores. Structures, 2020, 26, 441-455.	3.6	25
10	Investigating the effects of seismic isolators on steel asymmetric structures considering soil-structure interaction. Structures, 2020, 27, 1029-1040.	3.6	23
11	Numerical analysis of natural rubber bearing equipped with steel and shape memory alloys dampers. Structures, 2021, 32, 1839-1855.	3.6	23
12	Crack Detection in Images of Masonry Using CNNs. Sensors, 2021, 21, 4929.	3.8	19
13	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
14	Smart cities built with smart materials. Science, 2021, 371, 1200-1201.	12.6	18
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	Numerical evaluation of the behavior of ordinary and reinforced stone columns. Structures, 2020, 25, 481-490.	3.6	11
21	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
22	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
23	Reconsidering the Vaulted Forms of Cubaâ€™s National School of Ballet. RILEM Bookseries, 2019, , 2150-2158.	0.4	6
24	Cubaâ€™s National School of Ballet: Redefining a structural icon. Engineering Structures, 2020, 204, 110040.	5.3	6
25	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
26	Numerical Modeling of Crack Propagation in Masonry Structures. RILEM Bookseries, 2019, , 826-834.	0.4	5
27	Understanding the Function of Roman Bonding Courses: A Numerical Approach. RILEM Bookseries, 2019, , 1798-1806.	0.4	4
28	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
29	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
30	Unsupervised Data-Driven Methods for Damage Identification in Discontinuous Media. Structural Integrity, 2022, , 207-226.	1.4	0
31	Understanding cracks in historic structures: Quantitative assessment though numerical simulation and manifold learning. , 2019, , .		0
32	Virtual Tours and Augmented Reality for Direct Data Integration. , 2019, , .		0
33	Evaluating Facility Asset Information Needs in a Common Data Environment to Support Maintenance Workers. , 2022, , .		0