

Tomaso I Trombetti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5422274/publications.pdf>

Version: 2024-02-01

98
papers

1,612
citations

304743

22
h-index

345221

36
g-index

102
all docs

102
docs citations

102
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensile properties and microstructural features of 304L austenitic stainless steel produced by wire-and-arc additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 3693-3705.	3.0	107
2	Linear dynamic modeling of a uni-axial servo-hydraulic shaking table system. <i>Earthquake Engineering and Structural Dynamics</i> , 2000, 29, 1375-1404.	4.4	90
3	A Five-Step Procedure for the Dimensioning of Viscous Dampers to Be Inserted in Building Structures. <i>Journal of Earthquake Engineering</i> , 2010, 14, 417-447.	2.5	80
4	Physical and Numerical Approaches for the Optimal Insertion of Seismic Viscous Dampers in Shear-Type Structures. <i>Journal of Earthquake Engineering</i> , 2007, 11, 787-828.	2.5	78
5	Experimental results for structural design of Wire-and-Arc Additive Manufactured stainless steel members. <i>Journal of Constructional Steel Research</i> , 2020, 167, 105858.	3.9	67
6	ADDED VISCOUS DAMPERS IN SHEAR-TYPE STRUCTURES: THE EFFECTIVENESS OF MASS PROPORTIONAL DAMPING. <i>Journal of Earthquake Engineering</i> , 2004, 8, 275-313.	2.5	55
7	On the influence of the geometrical irregularities in the mechanical response of Wire-and-Arc Additively Manufactured planar elements. <i>Journal of Constructional Steel Research</i> , 2021, 178, 106490.	3.9	55
8	On the modal damping ratios of shear-type structures equipped with Rayleigh damping systems. <i>Journal of Sound and Vibration</i> , 2006, 292, 21-58.	3.9	49
9	Novel schemes for inserting seismic dampers in shear-type systems based upon the mass proportional component of the Rayleigh damping matrix. <i>Journal of Sound and Vibration</i> , 2007, 302, 486-526.	3.9	49
10	Results of pseudo-static tests with cyclic horizontal load on cast in situ sandwich squat concrete walls. <i>Engineering Structures</i> , 2013, 54, 131-149.	5.3	43
11	Crescent shaped braces for the seismic design of building structures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 1485-1502.	3.1	36
12	On the evaluation of the horizontal forces produced by grain-like material inside silos during earthquakes. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 1535-1560.	4.1	34
13	SHAKING TABLE DYNAMICS: RESULTS FROM A TEST-ANALYSIS COMPARISON STUDY. <i>Journal of Earthquake Engineering</i> , 2002, 6, 513-551.	2.5	32
14	Experimentally-validated modelling of thin RC sandwich walls subjected to seismic loads. <i>Engineering Structures</i> , 2016, 119, 95-109.	5.3	32
15	A "direct five-step procedure" for the preliminary seismic design of buildings with added viscous dampers. <i>Engineering Structures</i> , 2018, 173, 933-950.	5.3	32
16	Assessment of design mechanical parameters and partial safety factors for Wire-and-Arc Additive Manufactured stainless steel. <i>Engineering Structures</i> , 2020, 225, 111314.	5.3	31
17	Experimental characterization, modeling and identification of the NEES-UCSD shake table mechanical system. <i>Earthquake Engineering and Structural Dynamics</i> , 2008, 37, 243-264.	4.4	30
18	On the dimensioning of viscous dampers for the mitigation of the earthquake-induced effects in moment-resisting frame structures. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 2429-2446.	4.1	29

#	ARTICLE	IF	CITATIONS
19	Experimental tests on Crescent Shaped Braces hysteretic devices. <i>Engineering Structures</i> , 2017, 144, 185-200.	5.3	28
20	Shaking-table tests of flat-bottom circular silos containing grain-like material. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 69-89.	4.4	27
21	New insight into and simplified approach to seismic analysis of torsionally coupled one-story, elastic systems. <i>Journal of Sound and Vibration</i> , 2005, 286, 265-312.	3.9	24
22	Peak velocities estimation for a direct five-step design procedure of inter-storey viscous dampers. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 599-619.	4.1	24
23	Simultaneous design of the topology and the build orientation of Wire-and-Arc Additively Manufactured structural elements. <i>Computers and Structures</i> , 2021, 242, 106370.	4.4	23
24	In-plane shear behaviour of thin low reinforced concrete panels for earthquake re-construction. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013, 46, 841-856.	3.1	22
25	Force reduction factor for building structures equipped with added viscous dampers. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 1661-1681.	4.1	22
26	Preliminary interpretation of shaking-table response of a full-scale 3-storey building composed of thin reinforced concrete sandwich walls. <i>Engineering Structures</i> , 2014, 76, 75-89.	5.3	22
27	AA5083 (Al-Mg) plates produced by wire-and-arc additive manufacturing: effect of specimen orientation on microstructure and tensile properties. <i>Progress in Additive Manufacturing</i> , 2021, 6, 479-494.	4.8	22
28	Influence of Interlayer Forced Air Cooling on Microstructure and Mechanical Properties of Wire Arc Additively Manufactured 304L Austenitic Stainless Steel. <i>Steel Research International</i> , 2021, 92, 2100175.	1.8	22
29	Mechanical response of dot-by-dot wire-and-arc additively manufactured 304L stainless steel bars under tensile loading. <i>Construction and Building Materials</i> , 2022, 318, 125925.	7.2	22
30	Multi-performance seismic design through an enhanced first-storey isolation system. <i>Engineering Structures</i> , 2014, 59, 495-506.	5.3	21
31	Computational design and manufacturing of a half-scaled 3D-printed stainless steel diagrid column. <i>Additive Manufacturing</i> , 2020, 36, 101505.	3.0	21
32	Geometrical Characterization of Wire-and-Arc Additive Manufactured Steel Element. <i>Advanced Materials Letters</i> , 2019, 10, 695-699.	0.6	21
33	Refinements to the Silvestri's theory for the evaluation of the seismic actions in flat-bottom silos containing grain-like material. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 3493-3525.	4.1	20
34	Seismic Modal Contribution Factors. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 2867-2891.	4.1	18
35	On non-linear dynamic analysis in the frequency domain: Algorithms and applications. <i>Earthquake Engineering and Structural Dynamics</i> , 1994, 23, 363-388.	4.4	17
36	Physically-based prediction of the maximum corner displacement magnification of one-storey eccentric systems. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 1467-1491.	4.1	17

#	ARTICLE	IF	CITATIONS
37	Experimentally-validated orthotropic elastic model for Wire-and-Arc Additively Manufactured stainless steel. <i>Additive Manufacturing</i> , 2021, 42, 101999.	3.0	17
38	An approach for the mechanical characterisation of the Asinelli Tower (Bologna) in presence of insufficient experimental data. <i>Journal of Cultural Heritage</i> , 2015, 16, 536-543.	3.3	16
39	Stochastic-based damping reduction factors. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 80, 168-176.	3.8	16
40	Structural Interpretation of Data from Static and Dynamic Structural Health Monitoring of Monumental Buildings. <i>Key Engineering Materials</i> , 0, 747, 431-439.	0.4	16
41	Inserting the mass proportional damping (MPD) system in a concrete shear-type structure. <i>Structural Engineering and Mechanics</i> , 2003, 16, 177-193.	1.0	16
42	On the peak inter-storey drift and peak inter-storey velocity profiles for frame structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 94, 18-34.	3.8	15
43	A statistical study on the peak ground parameters and amplification factors for an updated design displacement spectrum and a criterion for the selection of recorded ground motions. <i>Engineering Structures</i> , 2014, 76, 163-176.	5.3	14
44	Seismic design of a precast r.c. structure equipped with viscous dampers. <i>Earthquake and Structures</i> , 2011, 2, 297-321.	1.0	14
45	Numerical Verification of the Effectiveness of the α -Method for the Estimation of the Maximum Rotational Elastic Response of Eccentric Systems. <i>Journal of Earthquake Engineering</i> , 2008, 12, 249-280.	2.5	13
46	A Structural Analysis of the Modena Cathedral. <i>International Journal of Architectural Heritage</i> , 0, , .	3.1	13
47	On the seismic behavior of a reinforced concrete building with masonry infills collapsed during the 2009 L'Aquila earthquake. <i>Earthquake and Structures</i> , 2014, 6, 45-69.	1.0	12
48	Long-Term Seismometric Monitoring of the Two Towers of Bologna (Italy): Modal Frequencies Identification and Effects Due to Traffic Induced Vibrations. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	12
49	The role of ductility in the collapse of a long-span steel roof in North Italy. <i>Engineering Failure Analysis</i> , 2017, 82, 243-265.	4.0	10
50	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2002, 6, 513.	2.5	9
51	Comprehensive Review on the Dynamic and Seismic Behavior of Flat-Bottom Cylindrical Silos Filled With Granular Material. <i>Frontiers in Built Environment</i> , 2022, 7, .	2.3	9
52	On the Fundamental Periods of Vibration of Flat-Bottom Ground-Supported Circular Silos containing Gran-like Material. <i>Procedia Engineering</i> , 2017, 199, 248-253.	1.2	8
53	Coupled Response of Frame Structures Connected to a Strongback. <i>Journal of Structural Engineering</i> , 2018, 144, .	3.4	7
54	Experimental behaviour of Wire&and&Arc Additively Manufactured stainless steel rods. <i>Ce/Papers</i> , 2021, 4, 2387-2392.	0.3	7

#	ARTICLE	IF	CITATIONS
55	Analytical estimation of the key performance points of the tensile force-displacement response of Crescent Shaped Braces. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 148, 106839.	3.8	7
56	A comprehensive study on the seismic response of one-storey asymmetric systems. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1497-1517.	4.1	6
57	A direct design procedure for frame structures with added viscous dampers for the mitigation of earthquake-induced vibrations. <i>Procedia Engineering</i> , 2017, 199, 1755-1760.	1.2	5
58	Seismic-Proof Buildings in Developing Countries. <i>Frontiers in Built Environment</i> , 2017, 3, .	2.3	5
59	High performance mortar for ductile seismic-resistant unreinforced masonry systems. <i>Construction and Building Materials</i> , 2020, 245, 118385.	7.2	4
60	A direct procedure for the seismic design of frame structures with added viscous dampers. <i>International Journal of Safety and Security Engineering</i> , 2017, 7, 498-509.	1.0	4
61	The structural behaviour of the masonry vaults of the Cathedral of Modena. , 2017, , .		4
62	Strong-Back System Coupled with Framed Structure to Control the Building Seismic Response. <i>Journal of Civil & Environmental Engineering</i> , 2017, 07, .	0.1	3
63	A time domain approach for data interpretation from long-term static monitoring of historical structures. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2708.	4.0	3
64	Seismic Design and Performances of Frame Structures Connected to a Strongback System and Equipped with Different Configurations of Supplemental Viscous Dampers. <i>Frontiers in Built Environment</i> , 2021, 7, .	2.3	3
65	Seismic horizontal forces exerted by granular material on flat bottom silos: experimental and analytical results. , 2016, , .		3
66	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2004, 8, 275.	2.5	2
67	Optimization studies on diagrid columns realized with Wire-and-Arc Additive Manufacturing process. , 2019, , .		2
68	AN ASSESSMENT OF THE STRUCTURAL BEHAVIOUR OF THE GARISENDA TOWER IN BOLOGNA THROUGH FINITE ELEMENT MODELLING AND STRUCTURAL HEALTH MONITORING. , 2019, , .		2
69	Structural evaluation of the Palazzo della Civilt� Italiana in Rome. <i>Structure and Infrastructure Engineering</i> , 2011, 7, 147-162.	3.7	1
70	Italy's new forensic engineering research centre: a progress report. <i>Proceedings of the Institution of Civil Engineers: Forensic Engineering</i> , 2015, 168, 17-24.	0.5	1
71	SSHM and DSHM for a better knowledge and risk prevention of historical buildings: The cases of the Two Towers in Bologna and the Cathedral in Modena. , 2015, , .		1
72	Application of a Direct Procedure for the Seismic Retrofit of a R/C School Building Equipped with Viscous Dampers. <i>Frontiers in Built Environment</i> , 2015, 1, .	2.3	1

#	ARTICLE	IF	CITATIONS
73	Shaking Table Test Design to Evaluate Earthquake Capacity of a 3-Storey Building Specimen Composed of Cast-In-Situ Concrete Walls. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2015, , 345-358.	0.2	1
74	A Direct Five-Step Procedure for the Dimensioning of Viscous Dampers to Be Inserted in Frame Structures. <i>Applied Mechanics and Materials</i> , 2016, 847, 233-239.	0.2	1
75	Estimating Fundamental Dynamic Properties of Structures with Supplemental Dampers by Means of Generalized Single Degree of Freedom Systems. <i>Journal of Earthquake Engineering</i> , 2020, , 1-30.	2.5	1
76	Analysis of the Dynamic Behaviour of Squat Silos Containing Grain-like Material Subjected to Shaking Table Testsâ€”ASESGRAM Final Report. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2015, , 437-457.	0.2	1
77	EXPERIMENTS ON CRESCENT SHAPED BRACES. <i>Proceedings of International Structural Engineering and Construction</i> , 2015, 2, .	0.1	1
78	A Case Study of a Building in L'Aquila, Italy for Evaluating the Effects of Masonry Infills on the Seismic Behavior of R.C. Frame Structures. , 2010, , .		0
79	Stiffness-Strength-Ductility Design Approach: an application to a five-storey steel building structure. <i>IABSE Symposium Report</i> , 2010, , .	0.0	0
80	Correlations Between the Experimental Results of Pseudo-Static Tests with Cyclic Horizontal Load on Concrete/Polystyrene Sandwich Bearing Panels and their analytical counterparts. <i>IABSE Symposium Report</i> , 2010, , .	0.0	0
81	Identification of Uniform Hazard Time-Histories for Seismic Design. , 2010, , .		0
82	Seismic Analysis for the Structural Retrofit of â€œPalazzo della CiviltÃ Italianaâ€•in Rome EUR, Italy. <i>Advanced Materials Research</i> , 2010, 133-134, 753-758.	0.3	0
83	A Special Solution for Lateral-Resisting Systems Capable of Multiple Seismic Performances. , 2011, , .		0
84	Physically Based Prediction of the Maximum Corner Displacement of One-Storey Eccentric Systems. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2013, , 137-153.	0.2	0
85	The first year of activities of the â€œObservatory Claudio Ceccoliâ€, on the defects of the building structures. , 2014, , .		0
86	Reference Quantities and Values for a Possible Interpretation of the Data Acquired from Monitoring System of Historical Buildings. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2015, , 111-126.	0.2	0
87	Structural Strengthening of the Portico of the Santa Maria Dei Servi Church in Bologna. <i>Applied Mechanics and Materials</i> , 2016, 847, 354-360.	0.2	0
88	Corrigendum to â€œMulti-performance seismic design through an enhanced first-storey isolation systemâ€•[Eng. Struct. 59 (2014) 495â€“506]. <i>Engineering Structures</i> , 2016, 122, 349.	5.3	0
89	Editorial: Innovative Methodologies for Resilient Buildings and Cities. <i>Frontiers in Built Environment</i> , 2019, 5, .	2.3	0
90	Reducing Seismic out of Plane Vulnerability of Masonry Church Facçades through Optimization of Capacity Spectrum by Tie Rods. <i>Key Engineering Materials</i> , 2019, 817, 325-333.	0.4	0

#	ARTICLE	IF	CITATIONS
91	Use of Crescent Shaped Braces for Controlled Seismic Design of Ductile Structures. Journal of Civil Engineering and Architecture, 2011, 5, .	0.1	0
92	EFFECT OF THE GRAIN SLIDING ON THE SEISMIC BEHAVIOR OF CIRCULAR SILOS: A THEORETICAL FORMULATION. Proceedings of International Structural Engineering and Construction, 2015, 2, .	0.1	0
93	Application of the Equivalent Static Analysis procedure for the seismic design of buildings with added viscous dampers. , 2016, , .		0
94	Experimental Assessment of a new steel hysteretic device: Crescent Shaped Brace. , 2016, , .		0
95	Maximum Corner Displacement Amplifications for Inelastic One-Storey In-Plan Asymmetric Systems Under Seismic Excitation. Geotechnical, Geological and Earthquake Engineering, 2016, , 243-254.	0.2	0
96	IDENTIFICATION THROUGH SEISMOMETRIC MEASUREMENTS OF TRANSIENTS PROPAGATING INSIDE THE ASINELLI AND GARISENDA TOWERS (BOLOGNA, ITALY), IMPLICATION ON STRUCTURAL MODELING AND STATE OF HEALTH MONITORING. , 2019, , .		0
97	THE APPLICATION OF WELD-BASED ADDITIVE MANUFACTURING STEEL TO STRUCTURAL ENGINEERING. Proceedings of International Structural Engineering and Construction, 2019, 6, .	0.1	0
98	SEISMIC DESIGN OF FRAME STRUCTURES EQUIPPED WITH INNOVATIVE HYSTERETIC DISSIPATIVE DEVICES. Proceedings of International Structural Engineering and Construction, 2019, 6, .	0.1	0