Arturo Tena-Colunga

List of Publications by Year
in descending order

102	1,099	394390 19	477281 29
papers	citations	h-index	g-index

102	102	102	506
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Seismic Behavior of Structures with Flexible Diaphragms. Journal of Structural Engineering, 1996, 122, 439-445.	3.4	76
2	Torsional amplifications in asymmetric base-isolated structures. Engineering Structures, 2007, 29, 237-247.	5.3	62
3	Cyclic behavior of combined and confined masonry walls. Engineering Structures, 2009, 31, 240-259.	5.3	55
4	Mathematical modelling of the ADAS energy dissipation device. Engineering Structures, 1997, 19, 811-821.	5.3	45
5	Stiffness Formulation for Nonprismatic Beam Elements. Journal of Structural Engineering, 1996, 122, 1484-1489.	3.4	41
6	Dynamic torsional amplifications of base-isolated structures with an eccentric isolation system. Engineering Structures, 2006, 28, 72-83.	5.3	39
7	Torsional response of base-isolated structures due to asymmetries in the superstructure. Engineering Structures, 2002, 24, 1587-1599.	5.3	38
8	Updated Seismic Design Guidelines for Model Building Code of Mexico. Earthquake Spectra, 2009, 25, 869-898.	3.1	38
9	Behavior of reinforced concrete haunched beams subjected to static shear loading. Engineering Structures, 2008, 30, 478-492.	5.3	35
10	Seismic Evaluation of Unreinforced Masonry Structures with Flexible Diaphragms. Earthquake Spectra, 1992, 8, 305-318.	3.1	29
11	Displacement ductility demand spectra for the seismic evaluation of structures. Engineering Structures, 2001, 23, 1319-1330.	5.3	29
12	Nonlinear finite element modeling of reinforced concrete haunched beams designed to develop a shear failure. Engineering Structures, 2015, 105, 99-122.	5.3	26
13	COMPARATIVE STUDY ON THE SEISMIC RETROFIT OF A MIDâ€RISE STEEL BUILDING: STEEL BRACING VS ENERGY DISSIPATION. Earthquake Engineering and Structural Dynamics, 1997, 26, 637-655.	4.4	24
14	Behavior of reinforced concrete haunched beams subjected to cyclic shear loading. Engineering Structures, 2013, 49, 27-42.	5.3	24
15	Assessment of the diaphragm condition for floor systems used in urban buildings. Engineering Structures, 2015, 93, 70-84.	5.3	24
16	International Seismic Zone Tabulation Proposed by the 1997 UBC Code: Observations for Mexico. Earthquake Spectra, 1999, 15, 331-360.	3.1	23
17	Seismic behavior of code-designed medium rise special moment-resisting frame RC buildings in soft soils of Mexico city. Engineering Structures, 2008, 30, 3681-3707.	5.3	22
18	The September 7, 2017 Tehuantepec, Mexico, earthquake: Damage assessment in masonry structures for housing. International Journal of Disaster Risk Reduction, 2021, 56, 102123.	3.9	22

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19	Lateral Stiffness of Shear Walls with Openings. Journal of Structural Engineering, 2006, 132, 1846-1851.	3.4	20
20	Nonlinear behavior of code-designed reinforced concrete concentric braced frames under lateral loading. Engineering Structures, 2010, 32, 944-963.	5.3	20
21	Simplified 3-D dynamic analysis of structures with flexible diaphragms. Earthquake Engineering and Structural Dynamics, 1995, 24, 221-232.	4.4	19
22	Design Displacements for Base Isolators considering Bidirectional Seismic Effects. Earthquake Spectra, 2006, 22, 803-825.	3.1	18
23	Conditions of structural irregularity. Relationships with observed earthquake damage in Mexico City in 2017. Soil Dynamics and Earthquake Engineering, 2021, 143, 106630.	3.8	18
24	Assessment of seismic design parameters of moment resisting RC braced frames with metallic fuses. Engineering Structures, 2015, 95, 138-153.	5.3	17
25	Seismic isolation of buildings for power stations considering soil-structure interaction effects. Journal of Building Engineering, 2015, 4, 21-40.	3.4	17
26	Issues on the Seismic Retrofit of a Building near Resonant Response and Structural Pounding. Earthquake Spectra, 1996, 12, 567-597.	3.1	16
27	Case studies on the seismic behavior of reinforced concrete chevron braced framed buildings. Engineering Structures, 2012, 45, 78-103.	5.3	15
28	Code-Oriented Methodology for the Seismic Design of Regular Steel Moment-Resisting Braced Frames. Earthquake Spectra, 2014, 30, 1683-1709.	3.1	15
29	Assessment of the shear strength of continuous reinforced concrete haunched beams based upon cyclic testing. Journal of Building Engineering, 2017, 11, 187-204.	3.4	15
30	Base isolation for mid-rise buildings in presence of soil-structure interaction. Soil Dynamics and Earthquake Engineering, 2021, 151, 106980.	3.8	15
31	Seismic Isolation of Buildings Subjected to Typical Subduction Earthquake Motions for the Mexican Pacific Coast. Earthquake Spectra, 1997, 13, 505-532.	3.1	14
32	Some Retrofit Options for the Seismic Upgrading of Old Low-Rise School Buildings in Mexico. Earthquake Spectra, 1996, 12, 883-902.	3.1	13
33	Cyclic behavior of continuous reinforced concrete haunched beams with transverse reinforcement designed to fail in shear. Construction and Building Materials, 2017, 151, 546-562.	7.2	12
34	Assessment of Redundancy Factors for the Seismic Design of Special Moment Resisting Reinforced Concrete Frames. Latin American Journal of Solids and Structures, 2015, 12, 2330-2350.	1.0	11
35	Behavior of ductile steel X-braced RC frames in seismic zones. Earthquake Engineering and Engineering Vibration, 2019, 18, 845-869.	2.3	11
36	Review of the Soft First Story Irregularity Condition of Buildings for Seismic Design. Open Civil Engineering Journal, 2010, 4, 1-15.	0.8	11

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37	Vulnerability Maps for Reinforced Concrete Structures for Mexico City's Metropolitan Area under a Design Earthquake Scenario. Earthquake Spectra, 2007, 23, 809-840.	3.1	10
38	Simplified Method for the Seismic Analysis of Masonry Shear-Wall Buildings. Journal of Structural Engineering, 2010, 136, 511-520.	3.4	10
39	Peak seismic demands on soft and weak stories models designed for required code nominal strength. Soil Dynamics and Earthquake Engineering, 2020, 129, 105698.	3.8	10
40	Strengthening of reinforced concrete prismatic and haunched beams using light jacketing. Journal of Building Engineering, 2020, 32, 101757.	3.4	9
41	Performance of the built environment in Mexico City during the September 19, 2017 Earthquake. International Journal of Disaster Risk Reduction, 2020, 51, 101787.	3.9	8
42	Mexico City during and after the September 19, 2017 earthquake: Assessment of seismic resilience and ongoing recovery process. Journal of Civil Structural Health Monitoring, 2021, 11, 1275-1299.	3.9	8
43	Seismic behavior of buildings in Mexico City during the 2017 Pueblaâ€“Morelos earthquake. Asian Journal of Civil Engineering, 2021, 22, 649-675.	1.6	7
44	Code-Oriented Global Design Parameters for Moment-Resisting Steel Frames with Metallic Structural Fuses. Frontiers in Built Environment, 2017, 3, .	2.3	6
45	EVALUACIÃ“N DE UN MÃ‰TODO DE DISEÃ‘O ESTÃTICO PARA EL AISLAMIENTO SÃSMICO DE ESTRUCTURAS DE LA COSTA MEXICANA DEL PACÃFICO. Revista De IngenierÃa SÃsmica, 1997, , 1.	0.1	6
46	Seismic Design of Base-Isolated Buildings in Mexico. Part 1: Guidelines of a Model Code. Open Civil Engineering Journal, 2013, 7, 17-31.	0.8	6
47	Assessment of Shear Deformations on the Seismic Response of Asymmetric Shear Wall Buildings. Journal of Structural Engineering, 2005, 131, 1774-1779.	3.4	5
48	Redundancy Factors for the Seismic Design of Ductile Reinforced Concrete Chevron Braced Frames. Latin American Journal of Solids and Structures, 2016, 13, 2088-2112.	1.0	5
49	Resilient seismic design of steel frames with hysteretic fuses in a code-oriented format. Journal of Building Engineering, 2020, 32, 101768.	3.4	5
50	Aspects to Consider in the Assessment of Effective Stiffness for Reinforced Concrete Beams. Journal of Architectural Engineering, 2021, 27, .	1.6	4
51	Proposal for improved mixes to produce concrete masonry units with commonly used aggregates available in the Valley of Mexico. Revista ALCONPAT, 2017, 7, 36-56.	0.3	4
52	REVISIÃ“N Y ACTUALIZACIÃ“N DEL MÃ‰TODO SIMPLIFICADO DE ANÃLISIS DE ESTRUCTURAS DE MAMPOSTERÃA DE LOS REGLAMENTOS DE DISEÃ‘O SÃSMICO DE MÃ‰XICO. Revista De IngenierÃa SÃsmica, 2010, , 1.	0.1	4
53	SEISMIC DESIGN OF BASE-ISOLATED STRUCTURES USING CONSTANT STRENGTH SPECTRA. Journal of Earthquake Engineering, 2002, 6, 553-585.	2.5	3
54	Approximations of Lateral Displacements of Reinforced Concrete Frames with Symmetric Haunched Beams in the Elastic Range of Response Using Commercial Software. Practice Periodical on Structural Design and Construction, 2013, 18, 92-100.	1.3	3

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55	Computational Modelling of RC Slabs Cracking with an Embedded Discontinuity Formulation. Latin American Journal of Solids and Structures, 2015, 12, 2539-2561.	1.0	3
56	Approximations of elastic lateral displacement profiles for walls with openings. Structures, 2018, 13, 153-165.	3.6	3
57	Approximation of lateral stiffness for walls with two bands of openings considering slab stiffness effects. Journal of Building Engineering, 2020, 30, 101310.	3.4	3
58	EVALUACIÃ“N DE LOS CRITERIOS DE DISEÃ‘O POR SISMO DEL RCDF PARA MARCOS DÃšCTILES DE CONCRETO REFORZADO. Revista De IngenierÃa SÃsmica, 2008, , 73.	0.1	3
59	COMPORTAMIENTO NO LINEAL DE MARCOS DÃšCTILES DE CONCRETO REFORZADO CON CONTRAVENTEO METÃLICO CHEVRÃ“N. PROPUESTA DE DISEÃ‘O. Revista De IngenierÃa SÃsmica, 2011, , 61-102.	0.1	3
60	Allowable Torsional Eccentricity for the Simplified Method for the Seismic Analysis of Low-Rise Confined Masonry Shear-Wall Buildings of Mexican Codes. Open Civil Engineering Journal, 2011, 5, 132-142.	0.8	3
61	EVALUACIÃ“N SÃSMICA SIMPLIFICADA DE ESTRUCTURAS EXISTENTES. Revista De IngenierÃa SÃsmica, 1998, , 1.	0.1	3
62	Required building separations and observed seismic pounding on the soft soils of Mexico City. Soil Dynamics and Earthquake Engineering, 2022, 161, 107413.	3.8	3
63	Discussion of â€œBehavior and Modeling of Nonprismatic Members Having T-Sectionsâ€•by Can Balkaya. Journal of Structural Engineering, 2003, 129, 414-419.	3.4	2
64	Discussion of â€œLateral Stiffness of Shear Walls with Openingsâ€•by A. Neuenhofer. Journal of Structural Engineering, 2007, 133, 1853-1854.	3.4	2
65	Lateral Displacement in Walls with Openings: Importance of Floor System Stiffness. Practice Periodical on Structural Design and Construction, 2020, 25, 04019036.	1.3	2
66	Equations for Shear Design of Continuous Reinforced-Concrete Haunched Beams Based on Stress Fields and Truss Models. Practice Periodical on Structural Design and Construction, 2020, 25, .	1.3	2
67	RESISTENCIA Y DEFORMACIÃ“N DE MUROS DE MAMPOSTERÃA COMBINADA Y CONFINADA SUJETOS A CARGAS LATERALES. Revista De IngenierÃa SÃsmica, 2007, , 29.	0.1	2
68	REQUISITOS MÃNIMOS DE DETALLADO DÃšCTIL EN MARCOS DE CONCRETO REFORZADO PROTEGIDOS CON DISIPADORES HISTERÃ‰TICOS DE ENERGÃA. Revista De IngenierÃa SÃsmica, 2017, , 1-32.	0.1	2
69	RIGIDECES EFECTIVAS DE VIGAS DE CONCRETO REFORZADO PARA DISEÃ‘O SÃSMICO: MITOS Y REALIDADES. Revista Internacional De IngenierÃa De Estructuras, 2019, 24, 1.	0.0	2
70	Proper configuration of stiffness and strength centers in asymmetric single-story structures with semi-flexible diaphragms. Structures, 2022, 40, 149-162.	3.6	2
71	Discussion: Seismic Response of Asymmetric Systems: Energy-Based Approach. Journal of Structural Engineering, 1998, 124, 1369-1371.	3.4	1
72	Comparison of Building Analyses Assuming Rigid or Flexible Floors. Journal of Structural Engineering, 2000, 126, 272-274.	3.4	1

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73	Title is missing!. Journal of Earthquake Engineering, 2002, 6, 553.	2.5	1
74	Out-of-Plane Dynamic Stability of Unreinforced Masonry Walls in One-Way Bending: Parametric Study and Assessment Guidelines. Earthquake Spectra, 2018, 34, 1543-1545.	3.1	1
75	Resilient Design of Buildings with Hysteretic Energy Dissipation Devices as Seismic Fuses. , 2019, , 77-103.		1
76	Parametric study of the bending stiffness of RC cracked building beams. Engineering Structures, 2021, 243, 112695.	5.3	1
77	FACTORES DE DUCTILIDAD Y SOBRERRESISTENCIA EN MARCOS DE ACERO CON CONTRAVENTEO CHEVRÃ“N. Revista De IngenierÃa SÃsmica, 2011, , 47-68.	0.1	1
78	INFLUENCE OF SOIL-STRUCTURE INTERACTION ON ISOLATED BUILDINGS FOR SF6 GAS-INSULATED SUBSTATIONS. , 2014, , .		1
79	MODELADO ANALÃ•TICO DE EDIFICIOS CON DISIPADORES DE ENERGÃA. Revista De IngenierÃa SÃsmica, 2000, , 29.	0.1	1
80	OBSERVACIONES SOBRE ALGUNOS CRITERIOS DE DISEÃ‘O SÃSMICO DE EDIFICIOS CON MARCOS DE CONCRETO REFORZADO. Revista De IngenierÃa SÃsmica, 2002, , 1.	0.1	1
81	COMPORTAMIENTO SÃSMICO DE EDIFICIOS CON BASE EN MARCOS DÃšCTILES DE CONCRETO REFORZADO CON CONTRAVENTEO CHEVRÃ“N. Revista De IngenierÃa SÃsmica, 2012, , 55-87.	0.1	1
82	DISEÃ‘O SÃSMICO DE MARCOS DE ACERO CONTRAVENTEADOS. PARTE 1: RECOMENDACIONES DE DISEÃ‘O. Revista De IngenierÃa SÃsmica, 2013, , 43-68.	0.1	1
83	Simplified Method for the Seismic Design of Low-Rise, Shear Wall Base- Isolated Buildings. Open Construction and Building Technology Journal, 2014, 8, 22-33.	0.7	1
84	Impacto de la redundancia estructural en el comportamiento sÃsmico de estructuras de concreto reforzado. Alternativas, 2017, 17, 180-197.	0.0	1
85	DETERMINACIÃ“N DE PARÃMETROS DE DISEÃ‘O SÃSMICO PARA MARCOS DÃšCTILES DE CONCRETO REFORZADO CON DISIPADORES DE ENERGÃA HISTERÃ‰TICOS. Revista Sul-americana De Engenharia Estrutural, 2017, 14, .	0.1	1
86	Seismic retrofit and strengthening of buildings. Observations from the 2017 Puebla-Morelos earthquake in Mexico City. Journal of Building Engineering, 2022, 47, 103916.	3.4	1
87	The collapse of Ã•lvaro ObregÃ³n 286 building in Mexico City during the September 19, 2017 earthquake. A case study. Journal of Building Engineering, 2022, 49, 104060.	3.4	1
88	Closure to â€œStiffness Formulation for Nonprismatic Beam Elementsâ€•by Arturo Tenaâ€Colunga. Journal of Structural Engineering, 1997, 123, 1694-1694.	3.4	0
89	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 511.	2.5	0
90	DISEÃ‘O DE ESTRUCTURAS CON AISLAMIENTO SÃSMICO MEDIANTE EL USO DE ESPECTROS DE DISEÃ‘O POR CAPACIDAD. Revista De IngenierÃa SÃsmica, 2001, , 49.	0.1	0

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91	VULNERABILIDAD DE ESTRUCTURAS CON BASE EN MARCOS DE CONCRETO REFORZADO EN EL VALLE DE MÃ‰XICO ANTE UN ESCENARIO SIMILAR AL SISMO DE SEPTIEMBRE DE 1985. Revista De IngenierÃa SÃsmica, 2005, , 71.	0.1	0
92	COMPORTAMIENTO CÃCLICO DE TRABES ACARTELADAS DE CONCRETO REFORZADO SIN REFUERZO TRANSVERSAL QUE FALLAN POR CORTANTE. Revista De IngenierÃa SÃsmica, 2007, , .	0.1	0
93	DISEÃ‘O SÃSMICO DE MARCOS DE ACERO CONTRAVENTEADOS. PARTE 2: EVALUACIÃ“N DE LA METODOLOGÃA. Revista De IngenierÃa SÃsmica, 2013, , 69-90.	0.1	0
94	EVALUACIÃ“N DE LA FLEXIBILIDAD ELÃSTICA DE SISTEMAS DE PISO UTILIZADOS EN EDIFICIOS URBANOS. Revista De IngenierÃa SÃsmica, 2013, , .	0.1	0
95	MODELLING OF DIAGONAL COMPRESSION MASONRY WALLETS BY FINITE ELEMENTS WITH EMBEDDED DISCONTINUITIES. , 2015, , .		0
96	SHEAR STRENGTH AND DEFORMATION MECHANISMS OF COMBINED AND CONFINED MASONRY WALLS SUBJECTED TO CYCLIC LOADING. , 2015, , .		0
97	ASSESSMENT OF THE LATERAL STIFFNESS OF WALLS WITH OPENINGS. , 2015, , .		0
98	ESTUDIO PARAMÃ‰TRICO DE MODELOS REPRESENTATIVOS DE ESTRUCTURAS PROPENSAS A DESARROLLAR PISOS SUAVES ANTE EXCITACIONES SÃSMICAS DE SUELO BLANDOS. Revista De IngenierÃa SÃsmica, 2017, , 53-80.	0.1	0
99	TRABES ACARTELADAS DE CONCRETO REFORZADO CONTINUAS DISEÃ‘ADAS PARA FALLAR POR CORTANTE. PARTE 1: DESCRIPCIÃ“N DE LOS EXPERIMENTOS Y DEL COMPORTAMIENTO CÃCLICO. Revista De IngenierÃa SÃsmica, 2018, , 1-34.	0.1	0
100	TRABES ACARTELADAS DE CONCRETO REFORZADO CONTINUAS DISEÃ‘ADAS PARA FALLAR POR CORTANTE. PARTE 2: MECANISMO DE RESISTENCIA A CORTANTE. Revista De IngenierÃa SÃsmica, 2018, , 35-63.	0.1	0
101	EVALUACIÃ“N DEL DISEÃ‘O SÃSMICO RESILIENTE CONFORME AL MÃ‰TODO DE LAS FUERZAS DE MARCOS DÃšCTILES DE ACERO CON DISIPADORES DE ENERGÃA HISTERÃ‰TICOS. Revista De IngenierÃa SÃsmica, 2018, , 45.	0.1	0
102	Non-Linear Finite Element Simulation of Combined and Confined Masonry Walls. , 0, , .		0