Nicos Makris

List of Publications by Year
in descending order

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135	6,433	57631	69108
papers	citations	44 h-index	77 g-index

136	136	136	2457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pulseâ€period â€“ momentâ€magnitude relations derived with wavelet analysis and their relevance to estimate structural deformations. Earthquake Engineering and Structural Dynamics, 2022, 51, 1636-1656.	2.5	7
2	Seismic Response of Yielding Multistory Steel Buildings Equipped with Pressurized Sand Dampers. Journal of Structural Engineering, 2022, 148, .	1.7	6
3	Seismic response of yielding structures equipped with inerters. Soil Dynamics and Earthquake Engineering, 2021, 141, 106474.	1.9	14
4	Impulse response function for Brownian motion. Soft Matter, 2021, 17, 5410-5426.	1.2	6
5	The Fractional Derivative of the Dirac Delta Function and Additional Results on the Inverse Laplace Transform of Irrational Functions. Fractal and Fractional, 2021, 5, 18.	1.6	9
6	Pressurized Sand Damper for Earthquake and Wind Engineering: Design, Testing, and Characterization. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	8
7	Response analysis of yielding structures coupled to rocking walls with supplemental damping. Earthquake Engineering and Structural Dynamics, 2021, 50, 2672-2689.	2.5	6
8	The eigenvalues of a partially embedded flexural, prismatic column. Earthquake Engineering and Structural Dynamics, 2021, 50, 3403-3420.	2.5	1
9	A rheological analog for Brownian motion with hydrodynamic memory. Physics of Fluids, 2021, 33, .	1.6	7
10	Dynamic response analysis of nonlinear secondary oscillators to idealised seismic pulses. Earthquake Engineering and Structural Dynamics, 2020, 49, 1473-1495.	2.5	10
11	Time-response functions of fractional derivative rheological models. Rheologica Acta, 2020, 59, 849-873.	1.1	7
12	Viscous-viscoelastic correspondence principle for Brownian motion. Physical Review E, 2020, 101, 052139.	0.8	7
13	On the physical meaning of time-domain constitutive models with complex parameters. Meccanica, 2020, 55, 453-467.	1.2	12
14	Effect of Supplemental Hysteretic and Viscous Damping on Rocking Response of Free-Standing Columns. Journal of Engineering Mechanics - ASCE, 2019, 145, 04019028.	1.6	26
15	The frequency response function of the creep compliance. Meccanica, 2019, 54, 19-31.	1.2	10
16	Displacements and Forces in Structures with Inerters when Subjected to Earthquakes. Journal of Structural Engineering, 2019, 145, .	1.7	25
17	Seismic isolation: Early history. Earthquake Engineering and Structural Dynamics, 2019, 48, 269-283.	2.5	98
18	Time-response functions of mechanical networks with inerters and causality. Meccanica, 2018, 53, 2237-2255.	1.2	16

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19	The Dynamics of Rocking Isolation. Geotechnical, Geological and Earthquake Engineering, 2018, , 289-307.	0.1	1
20	Seismic Response of a Yielding Structure Coupled with a Rocking Wall. Journal of Structural Engineering, 2018, 144, .	1.7	29
21	Earthquake response analysis of yielding structures coupled with vertically restrained rocking walls. Earthquake Engineering and Structural Dynamics, 2018, 47, 2965-2984.	2.5	27
22	Hinging Mechanisms of Masonry Single-Nave Barrel Vaults Subjected to Lateral and Gravity Loads. Journal of Structural Engineering, 2017, 143, .	1.7	23
23	Basic Response Functions of Simple Inertoelastic and Inertoviscous Models. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	18
24	The dynamics of an elastic structure coupled with a rocking wall. Earthquake Engineering and Structural Dynamics, 2017, 46, 945-962.	2.5	46
25	Size Versus Slenderness: Two Competing Parameters in the Seismic Stability of Freeâ€Standing Rocking Columns. Bulletin of the Seismological Society of America, 2016, 106, 104-122.	1.1	54
26	Seismic Protection of Structures with Supplemental Rotational Inertia. Journal of Engineering Mechanics - ASCE, 2016, 142, .	1.6	96
27	Validation of the Discrete Element Method for the Limit Stability Analysis of Masonry Arches. Advances in Civil and Industrial Engineering Book Series, 2016, , 292-325.	0.2	4
28	Modal identification of seismically isolated bridges with piers having different heights. International Journal of Sustainable Materials and Structural Systems, 2015, 2, 113.	0.2	0
29	Limit equilibrium analysis of masonry arches. Archive of Applied Mechanics, 2015, 85, 1363-1381.	1.2	40
30	The Dynamics of the Rocking Frame. Computational Methods in Applied Sciences (Springer), 2015, , 37-59.	0.1	12
31	Dynamics of the Rocking Frame with Vertical Restrainers. Journal of Structural Engineering, 2015, 141, .	1.7	59
32	Dynamics of the Vertically Restrained Rocking Column. Journal of Engineering Mechanics - ASCE, 2015, 141, .	1.6	52
33	Limit equilibrium analysis of masonry buttresses and towers under lateral and gravity loads. Archive of Applied Mechanics, 2015, 85, 1915-1940.	1.2	11
34	Elastic and inelastic systems under near-fault seismic shaking: acceleration records versus optimally-fitted wavelets. Bulletin of Earthquake Engineering, 2015, 13, 459-482.	2.3	17
35	In-situ condition assessment of seismic fluid dampers: experimental studies and challenges. Meccanica, 2015, 50, 323-340.	1.2	13
36	Seismic Response and Stability of the Rocking Frame. Geotechnical, Geological and Earthquake Engineering, 2015, , 249-273.	0.1	4

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37	Are Some Top-Heavy Structures More Stable?. Journal of Structural Engineering, 2014, 140, .	1.7	58
38	A half-century of rocking isolation. Earthquake and Structures, 2014, 7, 1187-1221.	1.0	65
39	The Role of the Rotational Inertia on the Seismic Resistance of Free-Standing Rocking Columns and Articulated Frames. Bulletin of the Seismological Society of America, 2014, 104, 2226-2239.	1.1	53
40	Limit equilibrium analysis and the minimum thickness of circular masonry arches to withstand lateral inertial loading. Archive of Applied Mechanics, 2014, 84, 757-772.	1.2	46
41	Health monitoring of fluid dampers for vibration control of structures: experimental investigation. Proceedings of SPIE, 2014, , .	0.8	0
42	Planar rocking response and stability analysis of an array of freeâ€standing columns capped with a freely supported rigid beam. Earthquake Engineering and Structural Dynamics, 2013, 42, 431-449.	2.5	155
43	Modal identification of freeway overcrossings with soil-structure interaction: a case study. Structural Control and Health Monitoring, 2013, 20, 304-319.	1.9	6
44	The effect of stereotomy on the shape of the thrust-line and the minimum thickness of semicircular masonry arches. Archive of Applied Mechanics, 2013, 83, 1511-1533.	1.2	47
45	Minimum thickness of elliptical masonry arches. Acta Mechanica, 2013, 224, 2977-2991.	1.1	40
46	Structural Stability and Bearing Capacity Analysis of the Tunnel-Entrance to the Stadium of Ancient Nemea. International Journal of Architectural Heritage, 2013, 7, 673-692.	1.7	13
47	Estimating the â€œeffective periodâ€•of bilinear systems with linearization methods, wavelet and time-domain analyses: From inelastic displacements to modal identification. Soil Dynamics and Earthquake Engineering, 2013, 45, 80-88.	1.9	10
48	Eminent Structural Engineer: Professor James Marshall Kelly. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2013, 23, 229-231.	0.5	1
49	The engineering merit of the "Effective Period" of bilinear isolation systems. Earthquake and Structures, 2013, 4, 397-428.	1.0	22
50	Transverse versus Longitudinal Eigenperiods of Multispan Seismically Isolated Bridges. Journal of Structural Engineering, 2012, 138, 193-204.	1.7	5
51	Health monitoring of fluid dampers for vibration control of structures: experimental investigation. Earthquake Engineering and Structural Dynamics, 2012, 41, 1813-1829.	2.5	9
52	Sizing the slenderness of free-standing rocking columns to withstand earthquake shaking. Archive of Applied Mechanics, 2012, 82, 1497-1511.	1.2	46
53	Analysis of the rocking response of rigid blocks standing free on a seismically isolated base. Earthquake Engineering and Structural Dynamics, 2012, 41, 177-196.	2.5	116
54	Estimating Time Scales and Length Scales in Pulselike Earthquake Acceleration Records with Wavelet Analysis. Bulletin of the Seismological Society of America, 2011, 101, 596-618.	1.1	101

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55	Dimensional Response Analysis of Bilinear Systems Subjected to Non-pulselike Earthquake Ground Motions. Journal of Structural Engineering, 2011, 137, 600-606.	1.7	22
56	Dimensional analysis of the earthquake-induced pounding between inelastic structures. Bulletin of Earthquake Engineering, 2011, 9, 561-579.	2.3	15
57	The existence of â€˜complete similaritiesâ€™ in the response of seismic isolated structures subjected to pulseâ€like ground motions and their implications in analysis. Earthquake Engineering and Structural Dynamics, 2011, 40, 1103-1121.	2.5	34
58	The eigenvalues of isolated bridges with transverse restraints at the end abutments. Earthquake Engineering and Structural Dynamics, 2010, 39, 869-886.	2.5	11
59	Experimental and analytical studies on the response of 1/4-scale models of freestanding laboratory equipment subjected to strong earthquake shaking. Bulletin of Earthquake Engineering, 2010, 8, 1457-1477.	2.3	61
60	A study on the effects of the foundation compliance on the response of yielding structures using dimensional analysis. Bulletin of Earthquake Engineering, 2010, 8, 1497-1514.	2.3	5
61	Modal Analysis of Isolated Bridges with Transverse Restrains at the End Abutments. , 2010, , .		0
62	Dynamic Testing of Frictional Bearings. , 2010, , .		0
63	Dimensional Analysis of the Earthquake Response of a Pounding Oscillator. Journal of Engineering Mechanics - ASCE, 2010, 136, 299-310.	1.6	21
64	Dimensional Response Analysis of Multistory Regular Steel MRF Subjected to Pulselike Earthquake Ground Motions. Journal of Structural Engineering, 2010, 136, 921-932.	1.7	52
65	Modal Analysis of Isolated Bridges with Transverse Restraints at the End Abutments. Geotechnical, Geological and Earthquake Engineering, 2010, , 331-339.	0.1	1
66	Experimental and analytical studies on the response of freestanding laboratory equipment to earthquake shaking. Earthquake Engineering and Structural Dynamics, 2009, 38, 827-848.	2.5	113
67	Dimensional analysis of the earthquakeâ€induced pounding between adjacent structures. Earthquake Engineering and Structural Dynamics, 2009, 38, 867-886.	2.5	45
68	Analyticity and causality of the three-parameter rheological models. Rheologica Acta, 2009, 48, 815-825.	1.1	19
69	Dimensional analysis of yielding and pounding structures for records without distinct pulses. Soil Dynamics and Earthquake Engineering, 2009, 29, 1170-1180.	1.9	53
70	Linearization and first-order expansion of the rocking motion of rigid blocks stepping on viscoelastic foundation. Earthquake Engineering and Structural Dynamics, 2008, 37, 1065-1080.	2.5	10
71	Response analysis of rigid structures rocking on viscoelastic foundation. Earthquake Engineering and Structural Dynamics, 2008, 37, 1039-1063.	2.5	53
72	Comparison of Modeling Approaches for Full-scale Nonlinear Viscous Dampers. JVC/Journal of Vibration and Control, 2008, 14, 51-76.	1.5	23

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73	Dimensional Response Analysis of Inelastic Structures. , 2008, , .		0
74	Viscous Heating of Fluid Dampers under Small and Large Amplitude Motions: Experimental Studies and Parametric Modeling. Journal of Engineering Mechanics - ASCE, 2007, 133, 566-577.	1.6	34
75	Dimensional response analysis of yielding structures with first-mode dominated response. Earthquake Engineering and Structural Dynamics, 2006, 35, 1203-1224.	2.5	49
76	Damping in Shear Beam Structures and Estimation of Drift Response. Journal of Engineering Mechanics - ASCE, 2006, 132, 851-858.	1.6	6
77	Seismic response analysis of multidrum classical columns. Earthquake Engineering and Structural Dynamics, 2005, 34, 1243-1270.	2.5	131
78	Seismic Response Analysis of a Highway Overcrossing Equipped with Elastomeric Bearings and Fluid Dampers. Journal of Structural Engineering, 2004, 130, 830-845.	1.7	56
79	Structural Characterization of Modern Highway Overcrossingsâ€"Case Study. Journal of Structural Engineering, 2004, 130, 846-860.	1.7	18
80	Dimensional Analysis of Bilinear Oscillators under Pulse-Type Excitations. Journal of Engineering Mechanics - ASCE, 2004, 130, 1019-1031.	1.6	118
81	Dimensional Analysis of Rigid-Plastic and Elastoplastic Structures under Pulse-Type Excitations. Journal of Engineering Mechanics - ASCE, 2004, 130, 1006-1018.	1.6	150
82	Component Testing, Seismic Evaluation and Characterization of Buckling-Restrained Braces. Journal of Structural Engineering, 2004, 130, 880-894.	1.7	357
83	Evaluation of Peak Ground Velocity as a â€œGoodâ€•Intensity Measure for Near-Source Ground Motions. Journal of Engineering Mechanics - ASCE, 2004, 130, 1032-1044.	1.6	115
84	The rocking spectrum and the limitations of practical design methodologies. Earthquake Engineering and Structural Dynamics, 2003, 32, 265-289.	2.5	204
85	Plastic Torsional Buckling of Cruciform Compression Members. Journal of Engineering Mechanics - ASCE, 2003, 129, 689-696.	1.6	12
86	Uplifting and Overturning of Equipment Anchored to a Base Foundation. Earthquake Spectra, 2002, 18, 631-661.	1.6	25
87	Experimental and analytical studies on the performance of hybrid isolation systems. Earthquake Engineering and Structural Dynamics, 2002, 31, 421-443.	2.5	38
88	Kinematic response functions and dynamic stiffnesses of bridge embankments. Earthquake Engineering and Structural Dynamics, 2002, 31, 1933-1966.	2.5	73
89	Seismic response analysis of highway overcrossings including soil-structure interaction. Earthquake Engineering and Structural Dynamics, 2002, 31, 1967-1991.	2.5	80
90	Rocking Response of Free-Standing Blocks under Cycloidal Pulses. Journal of Engineering Mechanics - ASCE, 2001, 127, 473-483.	1.6	314

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91	Rocking Response of Anchored Blocks under Pulse-Type Motions. Journal of Engineering Mechanics - ASCE, 2001, 127, 484-493.	1.6	95
92	<title>Viscous heating of fluid dampers: experimental studies</title>. , 2000, , .		0
93	Effect of Viscous, Viscoplastic and Friction Damping in Suppressing Structural Response. , 2000, , 1.		2
94	Effect of viscous, viscoplastic and friction damping on the response of seismic isolated structures. Earthquake Engineering and Structural Dynamics, 2000, 29, 85-107.	2.5	219
95	Time-domain viscoelastic analysis of earth structures. Earthquake Engineering and Structural Dynamics, 2000, 29, 745-768.	2.5	42
96	Response of Damped Oscillators to Cycloidal Pulses. Journal of Engineering Mechanics - ASCE, 2000, 126, 123-131.	1.6	45
97	Timeâ€domain viscoelastic analysis of earth structures. Earthquake Engineering and Structural Dynamics, 2000, 29, 745-768.	2.5	3
98	Viscous Heating of Fluid Dampers. II: Large-Amplitude Motions. Journal of Engineering Mechanics - ASCE, 1998, 124, 1217-1223.	1.6	31
99	Viscous Heating of Fluid Dampers. I: Small-Amplitude Motions. Journal of Engineering Mechanics - ASCE, 1998, 124, 1210-1216.	1.6	36
100	<title>Response of isolated structures equipped with controllable fluid dampers</title>. , 1998, , .		0
101	<title>Large-scale ER-damper for seismic protection</title>. , 1997, 3045, 140.		4
102	Stiffness, Flexibility, Impedance, Mobility, and Hidden Delta Function. Journal of Engineering Mechanics - ASCE, 1997, 123, 1202-1208.	1.6	26
103	Causal Hysteretic Element. Journal of Engineering Mechanics - ASCE, 1997, 123, 1209-1214.	1.6	68
104	Zeolite-based electrorheological fluids: Testing, modeling and instrumental artifacts. Journal of Rheology, 1997, 41, 75-92.	1.3	14
105	Three-dimensional constitutive viscoelastic laws with fractional order time derivatives. Journal of Rheology, 1997, 41, 1007-1020.	1.3	49
106	RIGIDITY-PLASTICITY-VISCOSITY: CAN ELECTRORHEOLOGICAL DAMPERS PROTECT BASE-ISOLATED STRUCTURES FROM NEAR-SOURCE GROUND MOTIONS?. Earthquake Engineering and Structural Dynamics, 1997, 26, 571-591.	2.5	244
107	Nonlinear response of single piles under lateral inertial and seismic loads. Soil Dynamics and Earthquake Engineering, 1996, 15, 29-43.	1.9	76
108	Prediction of Observed Response of Base-Isolated Structure. Journal of Structural Engineering, 1996, 122, 485-493.	1.7	29

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109	Modeling the Response of ER Damper: Phenomenology and Emulation. Journal of Engineering Mechanics - ASCE, 1996, 122, 897-906.	1.6	37
110	Analysis and Design of ER Damper for Seismic Protection of Structures. Journal of Engineering Mechanics - ASCE, 1996, 122, 1003-1011.	1.6	91
111	Macroscopic Models with Complex Coefficients and Causality. Journal of Engineering Mechanics - ASCE, 1996, 122, 566-573.	1.6	11
112	Modeling the Response of An Electrorheological Fluid Damper: Constitutive Models and Neural Networks. Intelligent Automation and Soft Computing, 1996, 2, 339-354.	1.6	2
113	Electrorheological damper with annular ducts for seismic protection applications. Smart Materials and Structures, 1996, 5, 551-564.	1.8	34
114	<title>Electrorheological fluid damper for seismic protection of structures</title>. , 1995, 2443, 184.		10
115	Seismic response of pile groups under oblique-shear and Rayleigh waves. Earthquake Engineering and Structural Dynamics, 1995, 24, 517-532.	2.5	26
116	Time domain analysis of generalized viscoelastic models. Soil Dynamics and Earthquake Engineering, 1995, 14, 375-386.	1.9	5
117	Dynamic Analysis of Viscoelastic-Fluid Dampers. Journal of Engineering Mechanics - ASCE, 1995, 121, 1114-1121.	1.6	44
118	Impedance Function of Piles in Inhomogeneous Media. Journal of Geotechcnical Engineering, 1995, 121, 234-236.	0.4	1
119	GENERALIZED DIFFERENTIATION AND THE COMPLEX MEMORY OF STRUCTURES. Fractals, 1994, 02, 315-320.	1.8	1
120	Soilâ€“pile interaction during the passage of rayleigh waves: An analytical solution. Earthquake Engineering and Structural Dynamics, 1994, 23, 153-167.	2.5	35
121	Complex-parameter kelvin model for elastic foundations. Earthquake Engineering and Structural Dynamics, 1994, 23, 251-264.	2.5	29
122	The imaginary counterpart of recorded motions. Earthquake Engineering and Structural Dynamics, 1994, 23, 265-273.	2.5	10
123	Prediction of Observed Bridge Response with Soilâ€Pileâ€Structure Interaction. Journal of Structural Engineering, 1994, 120, 2992-3011.	1.7	58
124	Dynamic Analysis of Generalized Viscoelastic Fluids. Journal of Engineering Mechanics - ASCE, 1993, 119, 1663-1679.	1.6	120
125	Analytical Model of Viscoelastic Fluid Dampers. Journal of Structural Engineering, 1993, 119, 3310-3325.	1.7	58
126	Models of Viscoelasticity with Complexâ€Order Derivatives. Journal of Engineering Mechanics - ASCE, 1993, 119, 1453-1464.	1.6	43

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127	Displacement phase differences in a harmonically oscillating pile. Geotechnique, 1993, 43, 135-150.	2.2	62
128	Green's functions for Helmholtz and Laplace equations in heterogeneous media. Engineering Analysis With Boundary Elements, 1992, 10, 179-183.	2.0	29
129	Dynamic pile-soil-pile interaction. Part II: Lateral and seismic response. Earthquake Engineering and Structural Dynamics, 1992, 21, 145-162.	2.5	314
130	Spring-viscous damper systems for combined seismic and vibration isolation. Earthquake Engineering and Structural Dynamics, 1992, 21, 649-664.	2.5	79
131	Fractionalâ€Derivative Maxwell Model for Viscous Dampers. Journal of Structural Engineering, 1991, 117, 2708-2724.	1.7	259
132	Dynamic pile-soil-pile interaction. Part I: Analysis of axial vibration. Earthquake Engineering and Structural Dynamics, 1991, 20, 115-132.	2.5	128
133	Analysis of Motion Resisted by Friction. I. Constant Coulomb and Linear/Coulomb Frictionâ^—. Mechanics Based Design of Structures and Machines, 1991, 19, 477-500.	0.6	44
134	Analysis of Motion Resisted by Friction. II. Velocity-Dependent Frictionâ^—. Mechanics Based Design of Structures and Machines, 1991, 19, 501-526.	0.6	24
135	Response of seismic isolated structures with supplemental rotational inertia. Earthquake Engineering and Structural Dynamics, 0, , .	2.5	2