Vincent Denoel

List of Publications by Year in descending order

84	1,019	516710	526287
84	**1,019**	**16**	**27**
papers	citations	h-index	g-index

88	**88**	**88**	**827**
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parameter identification of wake-oscillator from wind tunnel data. Journal of Fluids and Structures, 2022, 109, 103474.	3.4	5
2	Decision-based interactive model to determine re-opening conditions of a large university campus in Belgium during the first COVID-19 wave. Archives of Public Health, 2022, 80, 71.	2.4	3
3	A hybrid stochastic model and its Bayesian identification for infectious disease screening in a university campus with application to massive COVID-19 screening at the University of LiÃ¨ge. Mathematical Biosciences, 2022, 347, 108805.	1.9	2
4	Influence of a Small Flexibility of Connections on the Elastic Structural Response of Frames. Journal of Structural Engineering, 2022, 148, .	3.4	2
5	Asymptotic analysis of multiple mode structures equipped with multiple tuned mass dampers. Journal of Sound and Vibration, 2022, 535, 117104.	3.9	3
6	Tight shoulders: A clinical, kinematic and strength comparison of symptomatic and asymptomatic male overhead athletes before and after stretching. European Journal of Sport Science, 2021, 21, 781-791.	2.7	2
7	Evolution of the trophy position along the tennis serve playerâ€™s development. Sports Biomechanics, 2021, 20, 431-443.	1.6	5
8	Background/Resonant decomposition of the stochastic torsional flutter response of an aeroelastic oscillator under buffeting loads. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 208, 104423.	3.9	2
9	On the identification of the axial force and bending stiffness of stay cables anchored to flexible supports. Applied Mathematical Modelling, 2021, 92, 798-828.	4.2	17
10	Minimal requirements for the vibration-based identification of the axial force, the bending stiffness and the flexural boundary conditions in cables. Journal of Sound and Vibration, 2021, 511, 116326.	3.9	10
11	An integrated solution for tension monitoring in bridge hangers and stay cable by means of vibration measurement. , 2021, , .		0
12	A foot/ground contact model for biomechanical inverse dynamics analysis. Journal of Biomechanics, 2020, 100, 109412.	2.1	7
13	Derivation of a slow phase model of vortex-induced vibrations for smooth and turbulent oncoming flows. Journal of Fluids and Structures, 2020, 99, 103145.	3.4	3
14	Normalizing gastrocnemius muscle EMG signal: An optimal set of maximum voluntary isometric contraction tests for young adults considering reproducibility. Gait and Posture, 2020, 82, 196-202.	1.4	4
15	Activation Profile of Scapular Stabilizing Muscles in Asymptomatic People. American Journal of Physical Medicine and Rehabilitation, 2020, 99, 925-931.	1.4	3
16	A de-mixing approach for the management of large negative peaks in wind tunnel data. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 206, 104279.	3.9	3
17	Kinesiotaping for scapular dyskinesis: The influence on scapular kinematics and on the activity of scapular stabilizing muscles. Journal of Electromyography and Kinesiology, 2020, 51, 102400.	1.7	10
18	Platelet-rich plasma (PRP) and tendon healing: comparison between fresh and frozen-thawed PRP. Platelets, 2020, 31, 221-225.	2.3	9

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19	Algorithm for Extracting Initial and Terminal Contact Timings during Treadmill Running using Inertial Sensors. , 2020, , .		0
20	Optimization of Footbridges Composed of Prismatic Tensegrity Modules. Journal of Bridge Engineering, 2019, 24, .	2.9	18
21	Reliability function determination of nonlinear oscillators under evolutionary stochastic excitation via a Galerkin projection technique. Nonlinear Dynamics, 2019, 95, 293-308.	5.2	9
22	Inter-Session Reliability of the Tennis Serve and Influence of the Laboratory Context. Journal of Human Kinetics, 2019, 66, 57-67.	1.5	6
23	Vascular Endothelial Growth Factor-111 (VEGF-111) and tendon healing: preliminary results in a rat model of tendon injury. Muscles, Ligaments and Tendons Journal, 2019, 04, 24.	0.3	35
24	Adaptive Method for Detecting Zero-Velocity Regions to Quantify Stride-to-Stride Spatial Gait Parameters using Inertial Sensors. , 2019, , .		1
25	Mixture Model in High-Order Statistics for Peak Factor Estimation on Low-Rise Building. Lecture Notes in Civil Engineering, 2019, , 613-629.	0.4	2
26	Vortex Induced Vibrations of Rectangular Cylinders Arranged on a Grid. Lecture Notes in Civil Engineering, 2019, , 630-651.	0.4	0
27	On the Use of the Cubic Translation to Model Bimodal Wind Pressures. Mathematical Modelling in Civil Engineering, 2019, 15, 20-32.	0.1	1
28	Effects of Allogeneic Platelet-Rich Plasma (PRP) on the Healing Process of Sectioned Achilles Tendons of Rats: A Methodological Description. Journal of Visualized Experiments, 2018, , .	0.3	5
29	Experimental and numerical investigation of the nonlinear dynamics of compliant mechanisms for deployable structures. Mechanical Systems and Signal Processing, 2018, 101, 1-25.	8.0	27
30	First passage time as an analysis tool in experimental wind engineering. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 177, 366-375.	3.9	6
31	Multiple timescale spectral analysis of a linear fractional viscoelastic system under colored excitation. Probabilistic Engineering Mechanics, 2018, 53, 66-74.	2.7	8
32	Second-order moment of the first passage time of a quasi-Hamiltonian oscillator with stochastic parametric and forcing excitations. Journal of Sound and Vibration, 2018, 427, 178-187.	3.9	8
33	P 054 - Evaluation of ground reaction forces by inverse dynamics analysis. Gait and Posture, 2018, 65, 72-73.	1.4	0
34	Vortex induced vibrations of rectangular cylinders arranged on a grid. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 177, 327-339.	3.9	7
35	Assessment of extreme value overestimations with equivalent static wind loads. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 123-133.	3.9	6
36	Response to the discussion on â€œReconstruction of the envelope of non-Gaussian structural responses with principal static wind loads by N. Blaise, T. Canor and V. DenoÃ«lâ€. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 163, 65-66.	3.9	0

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37	Eccentric Training for Tendon Healing After Acute Lesion: A Rat Model. American Journal of Sports Medicine, 2017, 45, 1440-1446.	4.2	15
38	Normalizing shoulder EMG: An optimal set of maximum isometric voluntary contraction tests considering reproducibility. Journal of Electromyography and Kinesiology, 2017, 37, 1-8.	1.7	34
39	14.06: Beam-to-column joints, column bases and joint components under impact loading. Ce/Papers, 2017, 1, 3890-3899.	0.3	5
40	Reliability of unipodal and bipodal counter movement jump landings in a recreational male population. European Journal of Sport Science, 2017, 17, 1143-1152.	2.7	4
41	Real-scale observations of vortex induced vibrations of stay-cables in the boundary layer. Procedia Engineering, 2017, 199, 3109-3114.	1.2	7
42	Average first-passage time of a quasi-Hamiltonian Mathieu oscillator with parametric and forcing excitations. Journal of Sound and Vibration, 2017, 406, 328-345.	3.9	15
43	Fast In-Plane Dynamics of a Beam with Unilateral Constraints. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	5
44	Which tool for a tennis serve evaluation? A review. International Journal of Performance Analysis in Sport, 2017, 17, 1007-1033.	1.1	14
45	A design methodology for lattice and tensegrity structures based on a stiffness and volume optimization algorithm using morphological indicators. International Journal of Space Structures, 2017, 32, 226-243.	1.0	6
46	Perturbation methods in evolutionary spectral analysis for linear dynamics and equivalent statistical linearization. Probabilistic Engineering Mechanics, 2016, 46, 1-17.	2.7	5
47	Gender effect on the scapular 3D posture and kinematic in healthy subjects. Clinical Physiology and Functional Imaging, 2016, 36, 188-196.	1.2	8
48	Eulerian formulation of elastic rods. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150547.	2.1	16
49	Reconstruction of the envelope of non-Gaussian structural responses with principal static wind loads. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 149, 59-76.	3.9	12
50	Surface Constrained Elastic Rods with Application to the Sphere. Journal of Elasticity, 2016, 123, 203-223.	1.9	8
51	Analytical procedure to derive P-I diagram of a beam under explosion. , 2015, , .		0
52	Segmentation of gait cycles using foot-mounted 3D accelerometers. , 2015, , .		5
53	Response of an oscillator to a random quadratic velocity-feedback loading. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 147, 330-344.	3.9	11
54	Development and validation of an accelerometer-based method for quantifying gait events. Medical Engineering and Physics, 2015, 37, 226-232.	1.7	71

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55	Multiple timescale spectral analysis. Probabilistic Engineering Mechanics, 2015, 39, 69-86.	2.7	14
56	Numerical simulation of percussive drilling. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 889-912.	3.3	17
57	Merging multi-camera data to reduce motion analysis instrumental errors using Kalman filters. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 952-960.	1.6	13
58	Pressure–impulse diagram of a beam developing non-linear membrane action under blast loading. International Journal of Impact Engineering, 2015, 86, 188-205.	5.0	19
59	Application of random eigenvalue analysis to assess bridge flutter probability. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 140, 79-86.	3.9	29
60	Biomechanical analysis of abdominal injury in tennis serves. A case report. Journal of Sports Science and Medicine, 2015, 14, 402-12.	1.6	5
61	Development and validation of a 3D kinematic-based method for determining gait events during overground walking. , 2014, , .		1
62	Dominance effect on scapula 3-dimensional posture and kinematics in healthy male and female populations. Journal of Shoulder and Elbow Surgery, 2014, 23, 873-881.	2.6	25
63	Accuracy of one–step integration schemes for damped/forced linear structural dynamics. International Journal for Numerical Methods in Engineering, 2014, 99, 333-353.	2.8	14
64	An asymptotic expansion-based method for a spectral approach in equivalent statistical linearization. Probabilistic Engineering Mechanics, 2014, 38, 1-12.	2.7	8
65	Event-driven integration of linear structural dynamics models under unilateral elastic constraints. Computer Methods in Applied Mechanics and Engineering, 2014, 276, 312-340.	6.6	2
66	Vascular Endothelial Growth Factor-111 (VEGF-111) and tendon healing: preliminary results in a rat model of tendon injury. Muscles, Ligaments and Tendons Journal, 2014, 4, 24-8.	0.3	34
67	A drifting impact oscillator with periodic impulsive loading: Application to percussive drilling. Physica D: Nonlinear Phenomena, 2013, 258, 1-10.	2.8	11
68	Principal static wind loads. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 113, 29-39.	3.9	27
69	Transient Fokker–Planck–Kolmogorov equation solved with smoothed particle hydrodynamics method. International Journal for Numerical Methods in Engineering, 2013, 94, 535-553.	2.8	20
70	Patching Asymptotics Solution of a Cable with a Small Bending Stiffness. Journal of Structural Engineering, 2013, 139, 180-187.	3.4	8
71	Validated extraction of gait events from 3D accelerometer recordings. , 2012, , .		8
72	The concept of numerical admittance. Archive of Applied Mechanics, 2012, 82, 1337-1354.	2.2	5

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73	Efficient uncoupled stochastic analysis with non-proportional damping. Journal of Sound and Vibration, 2012, 331, 5283-5291.	3.9	11
74	Eulerian formulation of a drillstring constrained inside a curved borehole. , 2011, , .		0
75	On the background and biresonant components of the random response of single degree-of-freedom systems under non-Gaussian random loading. Engineering Structures, 2011, 33, 2271-2283.	5.3	10
76	Eulerian formulation of constrained elastica. International Journal of Solids and Structures, 2011, 48, 625-636.	2.7	40
77	Multiple Scales Solution for a Beam with a Small Bending Stiffness. Journal of Engineering Mechanics - ASCE, 2010, 136, 69-77.	2.9	23
78	Polynomial approximation of aerodynamic coefficients based on the statistical description of the wind incidence. Probabilistic Engineering Mechanics, 2009, 24, 179-189.	2.7	4
79	Limit analysis of the statistics of quasi-steady non-linear aerodynamic forces for small turbulence intensities. Probabilistic Engineering Mechanics, 2009, 24, 552-564.	2.7	3
80	Multiple mode analysis of the self-excited vibrations of rotary drilling systems. Journal of Sound and Vibration, 2009, 325, 362-381.	3.9	136
81	Asymptotic expansion of slightly coupled modal dynamic transfer functions. Journal of Sound and Vibration, 2009, 328, 1-8.	3.9	22
82	Estimation of modal correlation coefficients from background and resonant responses. Structural Engineering and Mechanics, 2009, 32, 725-740.	1.0	15
83	Advantages of a semi‐analytical approach for the analysis of an evolving structure with contacts. Communications in Numerical Methods in Engineering, 2008, 24, 1667-1683.	1.3	10
84	Influence of the non-linearity of the aerodynamic coefficients on the skewness of the buffeting drag force. Wind and Structures, an International Journal, 2006, 9, 457-471.	0.8	7