

Pierre Marcotte

List of Publications by Year in descending order

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38
papers

672
citations

687363

13
h-index

580821

25
g-index

38
all docs

38
docs citations

38
times ranked

328
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodynamics of the human body under whole-body vibration: Synthesis of the reported data. <i>International Journal of Industrial Ergonomics</i> , 2010, 40, 710-732.	2.6	97
2	Effect of handle size and handâ€‘handle contact force on the biodynamic response of the handâ€‘arm system under zh-axis vibration. <i>Journal of Sound and Vibration</i> , 2005, 283, 1071-1091.	3.9	75
3	Vibration transmissibility characteristics of the human handâ€‘arm system under different postures, hand forces and excitation levels. <i>Journal of Sound and Vibration</i> , 2010, 329, 2953-2971.	3.9	67
4	Influence of handâ€‘arm posture on biodynamic response of the human handâ€‘arm exposed to zh-axis vibration. <i>International Journal of Industrial Ergonomics</i> , 2006, 36, 45-59.	2.6	55
5	Biomechanical models of the human hand-arm to simulate distributed biodynamic responses for different postures. <i>International Journal of Industrial Ergonomics</i> , 2012, 42, 249-260.	2.6	42
6	Analyses of biodynamic responses of seated occupants to uncorrelated fore-aft and vertical whole-body vibration. <i>Journal of Sound and Vibration</i> , 2011, 330, 4064-4079.	3.9	30
7	Mechanical Impedance and Absorbed Power of Hand-Arm under xh-Axis Vibration and Role of Hand Forces and Posture. <i>Industrial Health</i> , 2005, 43, 495-508.	1.0	28
8	Seated body apparent mass response to vertical whole body vibration: Gender and anthropometric effects. <i>International Journal of Industrial Ergonomics</i> , 2013, 43, 375-391.	2.6	27
9	Analysis of Ride Vibration Environment of Soil Compactors. <i>SAE International Journal of Commercial Vehicles</i> , 0, 3, 259-272.	0.4	24
10	Influence of hand forces and handle size on power absorption of the human handâ€‘arm exposed to zh-axis vibration. <i>Journal of Sound and Vibration</i> , 2006, 290, 1015-1039.	3.9	23
11	Comparisons of apparent mass responses of human subjects seated on rigid and elastic seats under vertical vibration. <i>Ergonomics</i> , 2013, 56, 1806-1822.	2.1	18
12	Measurement of coupling forces at the power tool handle-hand interface. <i>International Journal of Industrial Ergonomics</i> , 2015, 50, 105-120.	2.6	18
13	On the discrepancies in the reported human handâ€‘arm impedance at higher frequencies. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 703-714.	2.6	17
14	Vertical and Fore-Aft Seat-to-Head Transmissibility Response to Vertical Whole Body Vibration: Gender and Anthropometric Effects. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2013, 32, 11-40.	2.9	14
15	Fingers vibration transmission performance of vibration reducing gloves. <i>International Journal of Industrial Ergonomics</i> , 2017, 62, 55-69.	2.6	14
16	Comparing Three Methods for Evaluating Impact Wrench Vibration Emissions. <i>Annals of Occupational Hygiene</i> , 2009, 53, 617-26.	1.9	13
17	Vibration of portable orbital sanders and its impact on the development of work-related musculoskeletal disorders in the furniture industry. <i>Computers and Industrial Engineering</i> , 2012, 62, 762-769.	6.3	13
18	Effects of elastic seats on seated body apparent mass responses to vertical whole body vibration. <i>Ergonomics</i> , 2015, 58, 1175-1190.	2.1	13

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19	Development of a hand-arm mechanical analogue for evaluating chipping hammer vibration emission values. <i>Journal of Sound and Vibration</i> , 2010, 329, 1968-1980.	3.9	12
20	Evaluation of effects of anti-vibration gloves on manual dexterity. <i>Ergonomics</i> , 2018, 61, 1530-1544.	2.1	12
21	Distributed vibration power absorption of the human hand-arm system in different postures coupled with vibrating handle and power tools. <i>International Journal of Industrial Ergonomics</i> , 2013, 43, 363-374.	2.6	11
22	Whole-body vibration biodynamics - a critical review: I. Experimental biodynamics. <i>International Journal of Vehicle Performance</i> , 2020, 6, 1.	0.4	10
23	Interior noise reduction of composite cylinders using distributed vibration absorbers. , 2001, , .		8
24	Relationship among hand forces imparted on a viscoelastic hand-handle interface. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 145, 525-534.	5.0	6
25	Feasibility analysis of low-cost flexible resistive sensors for measurements of driving point mechanical impedance of the hand-arm system. <i>International Journal of Industrial Ergonomics</i> , 2015, 49, 44-52.	2.6	5
26	Whole-body vibration biodynamics - a critical review: II. Biodynamic modelling. <i>International Journal of Vehicle Performance</i> , 2020, 6, 52.	0.4	5
27	Distributed vibration isolation and manual dexterity of anti-vibration gloves: is there a correlation?. <i>Ergonomics</i> , 2020, 63, 735-755.	2.1	5
28	Design and Evaluation of a Suspension Seat to Reduce Vibration Exposure of Subway Operators: A Case Study. <i>Industrial Health</i> , 2010, 48, 715-724.	1.0	3
29	Identification of noise sources using a time domain beamforming on pneumatic, gas and electric nail guns. <i>Noise Control Engineering Journal</i> , 2019, 67, 11-22.	0.3	3
30	Assessing Increased Activities of the Forearm Muscles Due to Anti-Vibration Gloves: Construct Validity of a Refined Methodology. <i>Human Factors</i> , 2020, , 001872082094830.	3.5	2
31	Optimization of distributed vibration absorbers for sound transmission into a composite cylinder. , 2001, , .		1
32	A methodology for integrated performance analyses of vibration reducing gloves. <i>International Journal of Industrial Ergonomics</i> , 2021, 85, 103174.	2.6	1
33	Aircraft cabin noise control with smart foam treatment on fuselage sidewall - Laboratory tests. , 2001, , .		0
34	Comments on "A discussion on comparing alternative measures with frequency-weighted accelerations defined in ISO Standards" [R.G. Dong, J.Z. Wu, D.E. Welcome, T.W. McDowell, <i>Journal of Sound and Vibration</i>]. <i>Journal of Sound and Vibration</i> , 2008, 317, 1051-1056.	3.9	0
35	Vibration of portable orbital sanders and its impact on the development of work-related musculoskeletal disorders in the furniture industry. , 2010, , .		0
36	Noise: Assessment & control. <i>International Journal of Industrial Ergonomics</i> , 2013, 43, 473.	2.6	0

#	ARTICLE	IF	CITATIONS
37	Noise and vibration: Mine workers's exposure in Quebec underground mines. CIM Journal, 2015, 6, 111-117.	0.6	0
38	Whole-body vibration biodynamics - a critical review: I. Experimental biodynamics. International Journal of Vehicle Performance, 2020, 6, 1.	0.4	0