

Mohamed B Trabia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

401
citations

10
h-index

17
g-index

55
ext. papers

497
ext. citations

2.6
avg, IF

3.32
L-index

#	Paper	IF	Citations
48	An Approach for Material Model Identification of a Composite Coating Using Micro-Indentation and Multi-Scale Simulations. <i>Coatings</i> , 2022 , 12, 92	2.9	1
47	Enhancing the Accuracy of Vertical Ground Reaction Force Measurement During Walking Using Pressure-Measuring Insoles. <i>Journal of Biomechanical Engineering</i> , 2021 , 143,	2.1	2
46	Foot Contact Dynamics and Fall Risk among Children Diagnosed with Idiopathic Toe Walking. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2862	2.6	2
45	Material Model Characterization of a Ti/SiC Metal Matrix Nanocomposite Coating Subjected to Hypervelocity Impact. <i>Procedia Structural Integrity</i> , 2020 , 28, 525-537	1	1
44	A comparison of two techniques for center of pressure measurements. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2020 , 7, 2055668320921063	1.7	0
43	The influence of an engineering design experience on elementary teachers' nature of engineering views. <i>International Journal of Technology and Design Education</i> , 2020 , 30, 635-656	1.1	4
42	Enhancing hypervelocity impact resistance of titanium substrate using Ti/SiC Metal Matrix Nanocomposite coating. <i>Composites Part B: Engineering</i> , 2020 , 194, 108068	10	10
41	Concurrent Validity of an Automated Footprint Detection Algorithm to Measure Plantar Contact Area During Walking. <i>Journal of the American Podiatric Medical Association</i> , 2019 , 109, 416-425	1	2
40	Electronic measurement of plantar contact area during walking using an adaptive thresholding method for Medilogic pressure-measuring insoles. <i>Foot</i> , 2019 , 39, 1-10	1.3	3
39	A viscoelastic ellipsoidal model of the mechanics of plantar tissues. <i>Journal of Biomechanics</i> , 2019 , 92, 137-145	2.9	2
38	Design and preliminary testing of demand-responsive transverse rumble strips. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401987830	1.2	2
37	Assessing the validity of pressure-measuring insoles in quantifying gait variables. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2018 , 5, 2055668317752088	1.7	7
36	Study of Hypervelocity Projectile Impact on Thick Metal Plates. <i>Shock and Vibration</i> , 2016 , 2016, 1-11	1.1	9
35	Modeling Plastic Deformation of Steel Plates in Hypervelocity Impact Experiments. <i>Procedia Engineering</i> , 2015 , 103, 458-465		11
34	Parameters Identification for a Composite Piezoelectric Actuator Dynamics. <i>Actuators</i> , 2015 , 4, 39-59	2.4	2
33	A methodology for predicting high impact shock propagation within bolted-joint structures. <i>International Journal of Impact Engineering</i> , 2014 , 73, 30-42	4	10
32	Effect of lateral fin profiles on stress performance of internally finned tubes in a high temperature heat exchanger. <i>Applied Thermal Engineering</i> , 2013 , 50, 886-895	5.8	16

31	Identification of a force-sensing resistor for tactile applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2013 , 24, 813-827	2.3	8
30	Design of a Compact Ceramic High-Temperature Heat Exchanger and Chemical Decomposer for Hydrogen Production. <i>Heat Transfer Engineering</i> , 2012 , 33, 853-870	1.7	11
29	A fuzzy-controlled Hooke-Jeeves optimization algorithm. <i>Engineering Optimization</i> , 2011 , 43, 1043-1062	2	4
28	Optimization of shock response within a military vehicle space frame. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 44, 847-861	3.6	3
27	Modeling of Hysteresis and Backlash for a Smart Fin with a Piezoelectric Actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2011 , 22, 1161-1176	2.3	6
26	A Hybrid Biomimetic Genetic Algorithm Using a Local Fuzzy Simplex Search 2010 ,		1
25	Design of a Wearable Fingertip Haptic Braille Device. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2010 , 4,	1.3	1
24	Development of a Measuring System of Contact Force for Braille Reading Using a Six-Axis Force Sensor 2010 ,		1
23	Structural Response Optimization of a Light-Weight Composite Blast Containment Vessel. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2009 , 131,	1.2	1
22	Modeling of ionic polymer metal composite actuator dynamics using a large deflection beam model. <i>Smart Materials and Structures</i> , 2009 , 18, 115023	3.4	14
21	Modelling and control of an overhead crane with a variable length flexible cable. <i>International Journal of Computer Applications in Technology</i> , 2009 , 34, 216	0.7	9
20	Generalized Design of an Anti-swing Fuzzy Logic Controller for an Overhead Crane with Hoist. <i>JVC/Journal of Vibration and Control</i> , 2008 , 14, 319-346	2	29
19	Optimization of a Military Vehicle Space Frame Subject to High Impact Loading 2008 ,		1
18	Finite Element Modeling of a Lightweight Composite Blast Containment Vessel. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2008 , 130,	1.2	3
17	Parametric study of sulfuric acid decomposer for hydrogen production. <i>Progress in Nuclear Energy</i> , 2008 , 50, 427-433	2.3	12
16	Modeling and reduction of shocks on electronic components within a projectile. <i>International Journal of Impact Engineering</i> , 2008 , 35, 1326-1338	4	15
15	Optimization of a Vehicle Space Frame Under Ballistic Impact Loading 2007 , 317		
14	Dynamic Modeling of Segmented Ionic Polymer Metal Composite (IPMC) Actuator 2006 ,		8

13	Modeling and Parametric Study of a Ceramic High Temperature Heat Exchanger and Chemical Decomposer 2006 ,		4
12	Adaptive Control of a Projectile Fin Using Piezoelectric Elastic Beam 2005 ,		1
11	Direct adaptive control of a smart projectile fin by piezoelectric flexible beam actuator 2005 ,		1
10	Adaptive Rotation of a Smart Projectile Fin Using a Piezoelectric Flexible Beam Actuator. <i>JVC/Journal of Vibration and Control</i> , 2005 , 11, 1085-1102	2	7
9	Comparison of Distributed PD-like and Importancebased Fuzzy Logic Controllers for a Two-link Rigid-flexible Manipulator. <i>JVC/Journal of Vibration and Control</i> , 2005 , 11, 723-747	2	5
8	A distributed fuzzy logic controller for an autonomous vehicle. <i>Journal of Field Robotics</i> , 2004 , 21, 499-516		5
7	Adaptive control of projectile fin angle using piezoelectric beam actuator 2004 ,		2
6	A Hybrid Fuzzy Simplex Genetic Algorithm. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2004 , 126, 969-974	3	13
5	Optimization of the Closure-Weld Region of Cylindrical Containers for Long-Term Corrosion Resistance Using the Successive Heuristic Quadratic Approximation Technique*. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2003 , 125, 533-539	3	4
4	A Fuzzy Adaptive Simplex Search Optimization Algorithm. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2001 , 123, 216-225	3	15
3	A two-stage fuzzy logic controller for traffic signals. <i>Transportation Research Part C: Emerging Technologies</i> , 1999 , 7, 353-367	8.4	115
2	Placement of a manipulator for minimum cycle time. <i>Journal of Field Robotics</i> , 1999 , 16, 419-431		8
1	Adaptive path planning and obstacle avoidance for a robot with a large degree of redundancy. <i>Journal of Field Robotics</i> , 1996 , 13, 163-176		10