

Shihab Asfour

List of Publications by Year in descending order

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51
papers

1,275
citations

471061

17
h-index

360668

35
g-index

51
all docs

51
docs citations

51
times ranked

1670
citing authors

#	ARTICLE	IF	CITATIONS
1	Model predictive HVAC load control in buildings using real-time electricity pricing. <i>Energy and Buildings</i> , 2013, 60, 199-209.	3.1	177
2	Tool breakage detection using support vector machine learning in a milling process. <i>International Journal of Machine Tools and Manufacture</i> , 2005, 45, 241-249.	6.2	144
3	Pilot Study Comparing Changes in Postural Control After Training Using a Video Game Balance Board Program and 2 Standard Activity-Based Balance Intervention Programs. <i>Archives of Physical Medicine and Rehabilitation</i> , 2012, 93, 1138-1146.	0.5	106
4	Design of multisensor fusion-based tool condition monitoring system in end milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 46, 681-694.	1.5	94
5	Machine ensemble approach for simultaneous detection of transient and gradual abnormalities in end milling using multisensor fusion. <i>Journal of Materials Processing Technology</i> , 2009, 209, 4728-4738.	3.1	77
6	Short-Term Forecasting of Electric Loads Using Nonlinear Autoregressive Artificial Neural Networks with Exogenous Vector Inputs. <i>Energies</i> , 2017, 10, 40.	1.6	77
7	Solving the Multivariant EV Routing Problem Incorporating V2G and G2V Options. <i>IEEE Transactions on Transportation Electrification</i> , 2017, 3, 238-248.	5.3	72
8	Effects of Tobacco Smoking on the Degeneration of the Intervertebral Disc: A Finite Element Study. <i>PLoS ONE</i> , 2015, 10, e0136137.	1.1	64
9	Modeling tool wear progression by using mixed effects modeling technique when end-milling AISI 4340 steel. <i>Journal of Materials Processing Technology</i> , 2008, 205, 190-202.	3.1	30
10	The effect of pitch type on ground reaction forces in the baseball swing. <i>Sports Biomechanics</i> , 2011, 10, 270-279.	0.8	30
11	Smart Control of Fleets of Electric Vehicles in Smart and Connected Communities. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 6883-6897.	6.2	30
12	Development and validation of a three dimensional dynamic biomechanical lifting model for lower back evaluation for careful box placement. <i>International Journal of Industrial Ergonomics</i> , 2016, 54, 10-18.	1.5	29
13	Modeling the role of IGF-1 on extracellular matrix biosynthesis and cellularity in intervertebral disc. <i>Journal of Biomechanics</i> , 2014, 47, 2269-2276.	0.9	27
14	Short-Term Electrical Peak Demand Forecasting in a Large Government Building Using Artificial Neural Networks. <i>Energies</i> , 2014, 7, 1935-1953.	1.6	25
15	Two-stage discrete-continuous multi-objective load optimization: An industrial consumer utility approach to demand response. <i>Applied Energy</i> , 2017, 206, 206-221.	5.1	25
16	Effectiveness of pedicle screw inclusion at the fracture level in short-segment fixation constructs for the treatment of thoracolumbar burst fractures: a computational biomechanics analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1412-1420.	0.9	25
17	The effects of different carrying methods on locomotion stability, gait spatio-temporal parameters and spinal stresses. <i>International Journal of Industrial Ergonomics</i> , 2018, 67, 81-88.	1.5	23
18	A linear optimization based controller method for real-time load shifting in industrial and commercial buildings. <i>Energy and Buildings</i> , 2016, 110, 269-283.	3.1	19

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19	A multi-objective approach for determining optimal air compressor location in a manufacturing facility. <i>Journal of Manufacturing Systems</i> , 2015, 35, 176-190.	7.6	17
20	Web-based algorithm for cylindricity evaluation using support vector machine learning. <i>Computers and Industrial Engineering</i> , 2011, 60, 228-235.	3.4	16
21	A New Methodology to Measure the Running Biomechanics of Amputees. <i>Prosthetics and Orthotics International</i> , 2009, 33, 218-229.	0.5	15
22	Examination of a lumbar spine biomechanical model for assessing axial compression, shear, and bending moment using selected Olympic lifts. <i>Journal of Orthopaedics</i> , 2016, 13, 210-219.	0.6	14
23	Analysis of the consolidation problem of compressible porous media by a macroscopic variational continuum approach. <i>Mathematics and Mechanics of Solids</i> , 2017, 22, 952-968.	1.5	13
24	Development of an aggregate indicator to assess the machinability of steels. <i>Journal of Materials Processing Technology</i> , 2003, 134, 159-165.	3.1	12
25	Electric utility resource planning using Continuous-Discrete Modular Simulation and Optimization (CoDiMoSO). <i>Computers and Industrial Engineering</i> , 2012, 63, 671-694.	3.4	12
26	Altered mechano-chemical environment in hip articular cartilage: effect of obesity. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 945-959.	1.4	11
27	A computational analysis on the implications of age-related changes in the expression of cellular signals on the role of IGF-1 in intervertebral disc homeostasis. <i>Journal of Biomechanics</i> , 2015, 48, 332-339.	0.9	11
28	Two-stage economic and environmental load dispatching framework using particle filtering. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 48, 93-110.	3.3	10
29	Causal inverse dynamics of a flexible hub-arm system through Liapunov's second method. <i>Robotica</i> , 1996, 14, 381-389.	1.3	7
30	Design of Thoracolumbosacral Orthosis (TLSO) Braces Using CT/MR. <i>Journal of Computer Assisted Tomography</i> , 2001, 25, 963-970.	0.5	7
31	A computational model for investigating the effects of changes in bioavailability of insulin-like growth factor-1 on the homeostasis of the intervertebral disc. <i>Computers in Biology and Medicine</i> , 2016, 78, 126-137.	3.9	7
32	Surgical Intervention for Spastic Upper Extremity Improves Lower Extremity Kinematics in Spastic Adults: A Collection of Case Studies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 116.	2.0	7
33	Comparison of gait parameters in distal femoral replacement using a metallic endoprosthesis versus allograft reconstruction. <i>Journal of Orthopaedics</i> , 2015, 12, S25-S30.	0.6	6
34	EFFECTS OF SOME MACHINING VARIABLES IN LATHE FACING USING A PROFILOMETER TO MEASURE SURFACE ROUGHNESS. <i>Quality Engineering</i> , 1992, 5, 243-253.	0.7	4
35	The effect of motorcycle helmet fit on estimating head impact kinematics from residual liner crush. <i>Accident Analysis and Prevention</i> , 2017, 106, 315-326.	3.0	4
36	CT/MR imaging: a design tool for custom orthosis. <i>Disability and Rehabilitation</i> , 2000, 22, 583-590.	0.9	3

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37	Selection-based virtual keyboard prototypes and data collection application. Behavior Research Methods, 2009, 41, 951-956.	2.3	3
38	Development and Validation of a Three-Dimensional Biomechanical Model of the Lower Extremity. , 2011, , .		3
39	Examining attitudes toward and ability to interact with an online personal health record: A case study in Saudi Arabia. International Journal of Healthcare, 2019, 6, 1.	0.2	3
40	Biomechanical analysis of accurately and carefully placing an aerospace avionics box in restricted space. International Journal of Industrial Ergonomics, 2019, 72, 93-111.	1.5	3
41	Reliability and validity of a pain matching method of a pain induction apparatus. The Pain Clinic, 2006, 18, 11-17.	0.1	3
42	A SYNTHESIS OF QUALITY FUNCTION DEPLOYMENT AND ROBUST DESIGN AND ITS APPLICATION IN THE MEDICAL DEVICE INDUSTRY. Quality Engineering, 1999, 12, 37-45.	0.7	2
43	Cervical Strength Training Does Not Enhance Dynamic Stabilization of Head and Neck During Football Tackling. Medicine and Science in Sports and Exercise, 2010, 42, 679.	0.2	2
44	The effect of high-heeled shoe design on lower extremity kinetics, kinematics, and electromyography. International Journal of Human Factors and Ergonomics, 2012, 1, 181.	0.2	2
45	Attainment and retention of force moderation following laparoscopic resection training with visual force feedback. Surgical Endoscopy and Other Interventional Techniques, 2017, 31, 4805-4815.	1.3	2
46	Assessment of dynamic balance via measurement of lower extremities tortuosity. Sports Biomechanics, 2015, 14, 18-27.	0.8	1
47	Correcting Higher Order Aberrations Using Image Processing. IEEE Transactions on Image Processing, 2021, 30, 2276-2287.	6.0	1
48	Integrating Human Factors/Ergonomics in Facilitating the Design/Analysis of Consumer Products: A Computerized Knowledge-Base System. Proceedings of the Human Factors Society Annual Meeting, 1990, 34, 444-447.	0.1	0
49	Comparisons of Laboratory Tests and Simple Clinical Tests for Identifying Fallers among Healthy Older Persons. Medicine and Science in Sports and Exercise, 2011, 43, 711.	0.2	0
50	Fluoroscopic Video Imaging as a Clinical Tool for Assessing Patellar Maltracking. Medicine and Science in Sports and Exercise, 2015, 47, 89.	0.2	0
51	A Fuzzy Genetic Algorithm Classifier: The Impact of Time-Series Load Data Temporal Dimension on Classification Performance. , 2016, , .		0