James Yang

List of Publications by Year in descending order

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		172386	233338
228	3,065	29	45
papers	citations	h-index	g-index
233	233	233	2073
all docs	docs citations	times ranked	citing authors

IAMES YANG

#	Article	IF	CITATIONS
1	Simulation of planar flexible multibody systems withÂclearance and lubricated revolute joints. Nonlinear Dynamics, 2010, 60, 489-511.	2.7	204
2	Compliant mechanism design using multi-objective topology optimization scheme of continuum structures. Structural and Multidisciplinary Optimization, 2005, 30, 142-154.	1.7	107
3	Lumbar spine finite element model for healthy subjects: development and validation. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1-15.	0.9	106
4	Predictive dynamics: an optimization-based novel approach for human motion simulation. Structural and Multidisciplinary Optimization, 2010, 41, 465-479.	1.7	101
5	Manufacturing- and machining-based topology optimization. International Journal of Advanced Manufacturing Technology, 2006, 27, 531-536.	1.5	82
6	A multi-fingered hand prosthesis. Mechanism and Machine Theory, 2004, 39, 555-581.	2.7	68
7	An Efficient Hybrid Method for Multibody Dynamics Simulation Based on Absolute Nodal Coordinate Formulation. Journal of Computational and Nonlinear Dynamics, 2009, 4, .	0.7	65
8	A new digital human environment and assessment of vehicle interior design. CAD Computer Aided Design, 2007, 39, 548-558.	1.4	63
9	Nonlinear dynamic model of air spring with a damper for vehicle ride comfort. Nonlinear Dynamics, 2017, 89, 1545-1568.	2.7	61
10	Towards understanding the workspace of human limbs. Ergonomics, 2004, 47, 1386-1405.	1.1	60
11	Headform and N95 Filtering Facepiece Respirator Interaction: Contact Pressure Simulation and Validation. Journal of Occupational and Environmental Hygiene, 2012, 9, 46-58.	0.4	59
12	A novel air spring dynamic model with pneumatic thermodynamics, effective friction and viscoelastic damping. Journal of Sound and Vibration, 2017, 408, 87-104.	2.1	57
13	Simulation and Evaluation of Respirator Faceseal Leaks Using Computational Fluid Dynamics and Infrared Imaging. Annals of Occupational Hygiene, 2013, 57, 493-506.	1.9	55
14	Modeling and optimization for pneumatically pitch-interconnected suspensions of a vehicle. Journal of Sound and Vibration, 2018, 432, 290-309.	2.1	45
15	Use of multi-objective optimization for digital human posture prediction. Engineering Optimization, 2009, 41, 925-943.	1.5	44
16	Study of key algorithms in topology optimization. International Journal of Advanced Manufacturing Technology, 2007, 32, 787-796.	1.5	43
17	Real-Time Optimal Reach-Posture Prediction in a New Interactive Virtual Environment. Journal of Computer Science and Technology, 2006, 21, 189-198.	0.9	42
18	Simulation of a viscoelastic flexible multibody system using absolute nodal coordinate and fractional derivativeÂmethods. Multibody System Dynamics, 2009, 21, 281-303.	1.7	42

#	Article	IF	CITATIONS
19	A new procedure for aerodynamic missile designs using topological optimization approach of continuum structures. Aerospace Science and Technology, 2006, 10, 364-373.	2.5	40
20	Optimization-based trajectory planning of the human upper body. Robotica, 2006, 24, 683-696.	1.3	39
21	Synthesis and analysis of a flexible elephant trunk robot. Advanced Robotics, 2006, 20, 631-659.	1.1	38
22	Multi-objective optimization-based method for kinematic posture prediction: development and validation. Robotica, 2011, 29, 245-253.	1.3	38
23	Dynamic motion planning of overarm throw forÂaÂbipedÂhuman multibody system. Multibody System Dynamics, 2010, 24, 1-24.	1.7	36
24	Fuzzy tolerance multilevel approach for structural topology optimization. Computers and Structures, 2006, 84, 127-140.	2.4	35
25	Stress distribution in vertebral bone and pedicle screw and screw–bone load transfers among various fixation methods for lumbar spine surgical alignment: A finite element study. Medical Engineering and Physics, 2019, 63, 26-32.	0.8	34
26	Reach Envelope of a 9-Degree-of Freedom Model of the Upper Extremity. International Journal of Robotics and Automation, 2005, 20, .	0.1	33
27	A dynamic sliding-mode controller with fuzzy adaptive tuning for an active suspension system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2007, 221, 417-428.	1.1	32
28	Design, Control, and Sensory Feedback of Externally Powered Hand Prostheses: A Literature Review. Critical Reviews in Biomedical Engineering, 2013, 41, 161-181.	0.5	32
29	A new hybrid fuzzy-goal programming scheme for multi-objective topological optimization of static and dynamic structures under multiple loading conditions. Structural and Multidisciplinary Optimization, 2006, 31, 26-39.	1.7	31
30	Optimization-based posture prediction for human upper body. Robotica, 2009, 27, 607-620.	1.3	31
31	Simulation-Based Assessment of Rear Effect to Ballistic Helmet Impact. Computer-Aided Design and Applications, 2010, 7, 59-73.	0.4	30
32	Virtual human hand: model and kinematics. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 568-579.	0.9	30
33	On the workspace boundary determination of serial manipulators with non-unilateral constraints. Robotics and Computer-Integrated Manufacturing, 2008, 24, 60-76.	6.1	29
34	Approximate swept volumes of NURBS surfaces or solids. Computer Aided Geometric Design, 2005, 22, 1-26.	0.5	28
35	On the placement of open-loop robotic manipulators for reachability. Mechanism and Machine Theory, 2009, 44, 671-684.	2.7	28
36	Sensitivity analysis of important parameters affecting contact pressure between a respirator and a headform. International Journal of Industrial Ergonomics, 2011, 41, 268-279.	1.5	28

#	Article	lF	CITATIONS
37	Tire Model Application and Parameter Identification-A Literature Review. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 7, 231-243.	0.4	26
38	Finite element method-based study for effect of adult degenerative scoliosis on the spinal vibration characteristics. Computers in Biology and Medicine, 2017, 84, 53-58.	3.9	26
39	Finite element method-based study of pedicle screw–bone connection in pullout test and physiological spinal loads. Medical Engineering and Physics, 2019, 67, 11-21.	0.8	26
40	Dual-chamber pneumatically interconnected suspension: Modeling and theoretical analysis. Mechanical Systems and Signal Processing, 2021, 147, 107125.	4.4	26
41	A novel formulation for determining joint constraint loads during optimal dynamic motion of redundant manipulators in DH representation. Multibody System Dynamics, 2008, 19, 427-451.	1.7	24
42	Human reach envelope and zone differentiation for ergonomic design. Human Factors and Ergonomics in Manufacturing, 2009, 19, 15-34.	1.4	22
43	Simulation-based assessment for construction helmets. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 24-37.	0.9	22
44	Placement of Robot Manipulators to Maximize Dexterity. International Journal of Robotics and Automation, 2004, 19, .	0.1	22
45	State estimation in roll dynamics for commercial vehicles. Vehicle System Dynamics, 2017, 55, 313-337.	2.2	21
46	On swept volume formulations: implicit surfaces. CAD Computer Aided Design, 2001, 33, 113-121.	1.4	20
47	Simulating the Interaction between a Respirator and a Headform Using LS-DYNA. Computer-Aided Design and Applications, 2009, 6, 539-551.	0.4	20
48	Contact Pressure Study of N95 Filtering Face-piece Respirators Using Finite Element Method. Computer-Aided Design and Applications, 2010, 7, 847-861.	0.4	19
49	Workspace boundaries of serial manipulators using manifold stratification. International Journal of Advanced Manufacturing Technology, 2006, 28, 1211-1229.	1.5	18
50	Planning load-effective dynamic motions of highly articulated human model for generic tasks. Robotica, 2009, 27, 739.	1.3	18
51	Estimating the Dead Space Volume Between a Headform and N95 Filtering Facepiece Respirator Using Microsoft Kinect. Journal of Occupational and Environmental Hygiene, 2015, 12, 538-546.	0.4	18
52	Velocity and normal tyre force estimation for heavy trucks based on vehicle dynamic simulation considering the road slope angle. Vehicle System Dynamics, 2016, 54, 137-167.	2.2	18
53	Hybrid method for driver accommodation using optimization-based digital human models. CAD Computer Aided Design, 2012, 44, 29-39.	1.4	16
54	Mirror neuron activation of musicians and non-musicians in response to motion captured piano performances. Brain and Cognition, 2017, 115, 47-55.	0.8	16

#	Article	IF	CITATIONS
55	Subject-specific strength percentile determination for two-dimensional symmetric lifting considering dynamic joint strength. Multibody System Dynamics, 2019, 46, 63-76.	1.7	16
56	On the determination of driver reach and barriers. International Journal of Vehicle Design, 2005, 37, 253.	0.1	15
57	Multiple stiffness topology optimizations of continuum structures. International Journal of Advanced Manufacturing Technology, 2006, 30, 203-214.	1.5	15
58	Workspace zone differentiation tool for visualization of seated postural comfort. International Journal of Industrial Ergonomics, 2009, 39, 267-276.	1.5	15
59	Physics-Based Seated Posture Prediction for Pregnant Women and Validation Considering Ground and Seat Pan Contacts. Journal of Biomechanical Engineering, 2012, 134, .	0.6	15
60	A Novel Algorithm for Determining Contact Area Between a Respirator and a Headform. Journal of Occupational and Environmental Hygiene, 2014, 11, 227-237.	0.4	15
61	Study of the micro-climate and bacterial distribution in the deadspace of N95 filtering face respirators. Scientific Reports, 2018, 8, 17382.	1.6	15
62	A physics-based digital human model. International Journal of Vehicle Design, 2009, 51, 324.	0.1	14
63	Concurrent motion planning and reaction load distribution for redundant dynamic systems under external holonomic constraints. International Journal for Numerical Methods in Engineering, 2011, 88, 47-65.	1.5	14
64	Multi-objective optimization for two-dimensional maximum weight lifting prediction considering dynamic strength. Engineering Optimization, 2021, 53, 206-220.	1.5	14
65	Design and prototyping of an active hand prosthetic device. Industrial Robot, 2005, 32, 71-78.	1.2	13
66	Posture Prediction with External Loads – A Pilot Study. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 2, 1014-1023.	0.4	13
67	Determining the three-dimensional relation between the skeletal elements of the human shoulder complex. Journal of Biomechanics, 2009, 42, 1762-1767.	0.9	13
68	Simulated effect of driver and vehicle interaction on vehicle interiorÂlayout. International Journal of Industrial Ergonomics, 2015, 49, 11-20.	1.5	13
69	Effects of volitional spine stabilization on lifting task in recurrent low back pain population. European Spine Journal, 2016, 25, 2833-2841.	1.0	13
70	Grasping Force Optimization Approaches for Anthropomorphic Hands. Journal of Mechanisms and Robotics, 2018, 10, .	1.5	13
71	Finite Element Based-Analysis for Pre and Post Lumbar Fusion of Adult Degenerative Scoliosis Patients. Spine Deformity, 2019, 7, 543-552.	0.7	13
72	Multi-objective optimisation approach for predicting seated posture considering balance. International Journal of Vehicle Design, 2009, 51, 278.	0.1	12

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73	Three-dimensional asymmetric maximum weight lifting prediction considering dynamic joint strength. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 437-446.	1.0	12
74	A mathematical method for ergonomic-based design: placement. International Journal of Industrial Ergonomics, 2004, 34, 375-394.	1.5	11
75	A Light Weight Compliant Hand Mechanism With High Degrees of Freedom. Journal of Biomechanical Engineering, 2005, 127, 934-945.	0.6	11
76	Verification of NC machining processes using swept volumes. International Journal of Advanced Manufacturing Technology, 2006, 28, 82-91.	1.5	11
77	A crossing sensitivity filter for structural topology optimization with chamfering, rounding, and checkerboard-free patterns. Structural and Multidisciplinary Optimization, 2009, 37, 529-540.	1.7	11
78	Optimisation-based approach for determining driver seat adjustment range for vehicles. International Journal of Vehicle Design, 2011, 57, 148.	0.1	11
79	Effect of sensory-motor latencies and active muscular stiffness on stability for an ankle-hip model of balance on a balance board. Journal of Biomechanics, 2018, 75, 77-88.	0.9	11
80	Three dimensional unassisted sit-to-stand prediction for virtual healthy young and elderly individuals. Multibody System Dynamics, 2020, 49, 33-52.	1.7	11
81	Physical Design Factors Contributing to Patient Falls. Journal of Patient Safety, 2021, 17, e135-e142.	0.7	11
82	GENERATING EFFECTIVE WHOLE-BODY MOTIONS OF A HUMAN-LIKE MECHANISM WITH EFFICIENT ZMP FORMULATION. International Journal of Robotics and Automation, 2009, 24, .	0.1	11
83	A general analytic approach for Santosâ,,¢ upper extremity workspace. Computers and Industrial Engineering, 2008, 54, 242-258.	3.4	10
84	Evaluation of Human Body Response for Different Vehicle Seats Using a Multibody Biodynamic Model. , 0, , .		10
85	Simulated Effects of Head Movement on Contact Pressures between Headforms and N95 Filtering Facepiece Respirators Part 2: Simulation. Annals of Occupational Hygiene, 2014, 58, 1186-99.	1.9	10
86	The Effect of Surgical Alignment in Adult Scoliotic Spines on Axial Cyclic Vibration: A Finite Element Study. Journal of Computing and Information Science in Engineering, 2019, 19, .	1.7	10
87	An inverse optimization approach for determining weights of joint displacement objective function for upper body kinematic posture prediction. Robotica, 2012, 30, 389-404.	1.3	9
88	Hybrid Predictive Model for Lifting by Integrating Skeletal Motion Prediction With an OpenSim Musculoskeletal Model. IEEE Transactions on Biomedical Engineering, 2022, 69, 1111-1122.	2.5	9
89	Singularities of manipulators with non-unilateral constraints. Robotica, 2005, 23, 543-553.	1.3	8
90	Workspace zone differentiation and visualization for virtual humans. Ergonomics, 2008, 51, 395-413.	1.1	8

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91	Effect of Obesity on Seated Posture Inside a Vehicle Based on Digital Human Models. SAE International Journal of Materials and Manufacturing, 0, 4, 516-526.	0.3	8
92	American Football Helmet for Preventing Concussion, a Literature Review. Procedia Manufacturing, 2015, 3, 3796-3803.	1.9	8
93	Finite Element Method-Based Analysis for Effect of Vibration on Healthy and Scoliotic Spines. , 2016, , .		8
94	Spherical mesophase soft carbon materials with micro-nano composite structure and their applications in lithium-ion batteries. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 1675-1680.	1.2	8
95	Sweeping of an object held by a robotic end-effector. Robotics and Computer-Integrated Manufacturing, 2005, 21, 159-173.	6.1	7
96	Control of Hand Prostheses: A Literature Review. , 2013, , .		7
97	A Review of Magnetically Actuated Milli/Micro-Scale Robots Locomotion and Features. Critical Reviews in Biomedical Engineering, 2019, 47, 379-394.	O.5	7
98	Dynamic-joint-strength-based two-dimensional symmetric maximum weight-lifting simulation: Model development and validation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 660-673.	1.0	7
99	Two-Dimensional Versus Three-Dimensional Symmetric Lifting Motion Prediction Models: A Case Study. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	7
100	Motion Capture Experiments for Validating Optimization-Based Human Models. Lecture Notes in Computer Science, 2011, , 59-68.	1.0	7
101	TWO-LINK FLEXIBLE MANIPULATOR MODELLING AND TIP TRAJECTORY TRACKING BASED ON THE ABSOLUTE NODAL COORDINATE METHOD. International Journal of Robotics and Automation, 2009, 24, .	0.1	7
102	A hybrid topology optimization algorithm for structural design. Engineering Optimization, 2005, 37, 849-866.	1.5	6
103	Cloth Modeling and Simulation: A Literature Survey. Lecture Notes in Computer Science, 2011, , 312-320.	1.0	6
104	A NEW STABILITY CRITERION FOR HUMAN SEATED TASKS WITH GIVEN POSTURES. International Journal of Humanoid Robotics, 2012, 09, 1250015.	0.6	6
105	Effect of human link length determination on posture reconstruction. Applied Ergonomics, 2013, 44, 93-100.	1.7	6
106	Vertical Ground Reaction Forces for Given Human Standing Posture With Uneven Terrains: Prediction and Validation. IEEE Transactions on Human-Machine Systems, 2013, 43, 225-234.	2.5	6
107	Optimization-based posture reconstruction for digital human models. Computers and Industrial Engineering, 2013, 66, 125-132.	3.4	6
108	Computing Carbon Dioxide and Humidity in Filtering Facepiece Respirator Cavity During Breathing Cycles. , 2014, , .		6

ARTICLE IF CITATIONS Simulated Effects of Head Movement on Contact Pressures Between Headforms and N95 Filtering Facepiece Respirators-Part 1: Headform Model and Validation. Annals of Occupational Hygiene, 2014, 58, 1175-85. Human Facial Soft Tissue Thickness and Mechanical Properties: A Literature Review., 2015, , . 110 6 In-Plane Flexible Ring Tire Model Development for Ride Comfort & amp; Braking/Driving 6 Performance Analysis under Straight-line Driving Condition., 0,,. An Improved Human Biodynamic Model Considering the Interaction between Feet and Ground. SAE 112 0.4 6 International Journal of Commercial Vehicles, 2015, 8, 13-19. Experimental identification of potential falls in older adult hospital patients. Journal of 6 Biomechanics, 2016, 49, 1016-1020. Joint fatigue-based optimal posture prediction for maximizing endurance time in box carrying task. 114 1.7 6 Multibody System Dynamics, 2022, 55, 323-339. Study of control for the automated clutch of an automated manual transmission vehicle based on rapid control prototyping. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2010, 224, 475-487. 1.1 Basin of Attraction and Limit Cycle Oscillation Amplitude of an Ankle-Hip Model of Balance on a 116 0.6 5 Balance Board. Journal of Biomechanical Engineering, 2019, 141, . Optimization-Based Seated Posture Prediction Considering Contact With Environment., 2011, , . Effects of Gender and Recurrent Low Back Pain on Lifting Style. Central European Journal of Sport 118 0.1 5 Sciences and Medicine, 2015, 11, 15-28. CALCULATING SUPPORT REACTION FORCES IN PHYSICS-BASED SEATED POSTURE PREDICTION FOR PREGNANT 119 0.1 WOMEN. International Journal of Robotics and Automation, 2012, 27, . Prediction of Initial and Final Postures for Motion Planning in Human Manual Manipulation Tasks 120 Based on Cognitive Decision Making. Journal of Computing and Information Science in Engineering, 1.7 5 2020, 20, . Design propagation in kinematics of mechanical systems. Mechanism and Machine Theory, 2007, 42, 2.7 807-824. Dynamics analysis of linear elastic planar mechanisms. Multibody System Dynamics, 2007, 17, 1-25. 122 1.7 4 123 Digital Human Model for Driver Seat Adjustment Range Determination., 2010, , . Joint discomfort human performance measure for driver posture prediction: some insights. 124 0.1 4 International Journal of Human Factors Modelling and Simulation, 2012, 3, 253. Optimal Seat Dynamic Parameters Determination for Minimizing Virtual Driver's Fatigue., 0, , . 4

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¹²⁶ Development of an Out-of-Plane Flexible Ring Tire Model Compared with Commercial FTire® Via Virtual Cleat Tests. , 0, , .

#	Article	IF	CITATIONS
127	In-Plane Flexible Ring Tire Model Parameter Identification: Optimization Algorithms. SAE International Journal of Vehicle Dynamics, Stability, and NVH, 0, 2, 71-87.	0.5	4
128	Two-Dimensional Symmetric Box Delivery Motion Prediction and Validation: Subtask-Based Optimization Method. Applied Sciences (Switzerland), 2020, 10, 8798.	1.3	4
129	Numerical Nonlinear Analysis for Dynamic Stability of an Ankle-Hip Model of Balance on a Balance Board. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	4
130	Jump and Landing Biomechanical Variables and Methods: A Literature Review. Critical Reviews in Biomedical Engineering, 2020, 48, 211-222.	0.5	4
131	A Collision Avoidance Algorithm for Human Motion Prediction Based on Perceived Risk of Collision: Part 2-Application. IISE Transactions on Occupational Ergonomics and Human Factors, 2021, 9, 211-222.	0.5	4
132	Finite Element Analysis for the Interface of a Respirator and the Human Face -A Pilot Study. , O, , .		3
133	Formulation of Human Performance Measures for Full Body Pregnant Women Standing Posture Prediction. , 2011, , .		3
134	Determining the initial configuration of uninterrupted redundant manipulator trajectories in a manufacturing environment. Robotics and Computer-Integrated Manufacturing, 2011, 27, 22-32.	6.1	3
135	Force Optimization Approaches for Common Anthropomorphic Grasps. , 2016, , .		3
136	Predicting the probability of slip in gait: methodology and distribution study. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 93-100.	0.9	3
137	In-Plane Parameter Relationship between the 2D and 3D Flexible Ring Tire Models. , 0, , .		3
138	Modelling muscle recovery from a fatigued state in isometric contractions for the ankle joint. Journal of Biomechanics, 2020, 100, 109601.	0.9	3
139	An Alternative Formulation for Determining Weights of Joint Displacement Objective Function in Seated Posture Prediction. Lecture Notes in Computer Science, 2011, , 231-242.	1.0	3
140	In-Plane Flexible Ring Tire Model—Part 1: Modeling and Parameter Identification. Tire Science and Technology, 2018, 46, 174-219.	0.3	3
141	Muscle Force Prediction in OpenSim Using Skeleton Motion Optimization Results As Input Data. , 2019, ,		3
142	Three-Dimensional Symmetric Maximum Weight Lifting Prediction. , 2020, , .		3
143	A Collision Avoidance Algorithm for Human Motion Prediction Based on Perceived Risk of Collision: Part 1-Model Development. IISE Transactions on Occupational Ergonomics and Human Factors, 2021, 9, 199-210.	0.5	3
144	Ground Reaction Forces for Various Standing Tasks Considering Generic Terrain. , 2011, , .		2

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145	Nonlinear inverse optimization approach for determining the weights of objective function in standing reach tasks. Computers and Industrial Engineering, 2012, 63, 791-801.	3.4	2
146	Methodology for Simulating Air Leakages of an N95 Filtering Facepiece Respirator-A Pilot Study. Computer-Aided Design and Applications, 2012, 9, 43-53.	0.4	2
147	Digital Human Forward Kinematic and Dynamic Reliabilities. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	1.7	2
148	Computer-Aided Customized Shape Design of an N95 Filtering Facepiece Respirator. , 2013, , .		2
149	Simulation-Based Unassisted Sit-to-Stand Motion Prediction for Healthy Young Individuals. , 2014, , .		2
150	Optimal Posture and Supporting Hand Force Prediction for Common Automotive Assembly One-Handed Tasks. Journal of Mechanisms and Robotics, 2014, 6, .	1.5	2
151	A Review on Human Motion Prediction in Sit to Stand and Lifting Tasks. , 2016, , .		2
152	An intelligent FFR with a self-adjustable ventilation fan. Journal of Occupational and Environmental Hygiene, 2017, 14, D173-D178.	0.4	2
153	Fall Prevention Therapies for Individuals With Stroke: A Survey. , 2017, , .		2
154	Parameter identification of in-plane flexible ring tyre model based on static load-deflection data: some insights. International Journal of Vehicle Performance, 2017, 3, 180.	0.2	2
155	Effect of disturbances and sensorimotor deficits on the postural robustness of an ankle–hip model of balance on a balance board. Nonlinear Dynamics, 2020, 99, 1959-1973.	2.7	2
156	Effects of Volitional Spine Stabilization on Trunk Control During Asymmetric Lifting Task in Patients With Recurrent Low Back Pain. Global Spine Journal, 2020, 10, 1006-1014.	1.2	2
157	Validation of an ankle-hip model of balance on a balance board via kinematic frequency-content. Gait and Posture, 2020, 82, 313-321.	0.6	2
158	Improved K-medoids algorithm-based clustering analysis for handle driving force in automotive manual sliding door closing process. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 871-880.	1.1	2
159	Single Task Optimization-Based Planar Box Delivery Motion Simulation and Experimental Validation. Journal of Mechanisms and Robotics, 2021, 13, .	1.5	2
160	Assisted Spatial Sit-to-Stand Prediction-Part 1: Virtual Healthy Elderly Individuals. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	2
161	Functional muscle group- and sex-specific parameters for a three-compartment controller muscle fatigue model applied to isometric contractions. Journal of Biomechanics, 2021, 127, 110695.	0.9	2
162	Human Head Modeling and Personal Head Protective Equipment: A Literature Review. Lecture Notes in Computer Science, 2009, , 661-670.	1.0	2

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163	Modeling Planar Joints With Clearance Between the Guide and Roller in Mechanisms. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	2
164	ENHANCED FUZZY SLIDING MODE CONTROLLER FOR ROBOTIC MANIPULATORS. International Journal of Robotics and Automation, 2007, 22, .	0.1	2
165	Musical Embodiment and Perception: Performances, Avatars and Audiences. Signata, 2015, , 353-381.	0.1	2
166	<title>Task-based vehicle interior layout design using optimization method to enhance safety</title> . , 2005, 5805, 54.		1
167	The method of cut-joint kinematic constraint: velocity propagations. International Journal of Advanced Manufacturing Technology, 2006, 31, 815-824.	1.5	1
168	Throwing motion generation of a biped human model. , 2008, , .		1
169	WORKSPACE OF DIGITAL HUMAN LOWER EXTREMITIES. International Journal of Humanoid Robotics, 2009, 06, 291-306.	0.6	1
170	Prediction of On-Stride Walking for Pregnant Women. , 2010, , .		1
171	Contact Area Determination between a N95 Filtering Facepiece Respirator and a Headform. Lecture Notes in Computer Science, 2011, , 119-128.	1.0	1
172	Prosthetics for Transtibial Amputees: A Literature Survey. , 2011, , .		1
173	Probabilistic Approach for Digital Human Kinematic and Dynamic Reliabilities. , 2012, , .		1
174	A Survey for Methods of Detecting Aircraft Vortices. , 2012, , .		1
175	Finite Element Analysis of Piezoelectric Strips for Modifying Ankle Torques in Active Prosthetic Feet: A Pilot Study. , 2012, , .		1
176	Design and analysis of a novel earpieceâ€less eyeglass frame. Journal of Engineering, Design and Technology, 2013, 11, 158-177.	1.1	1
177	In-Plane Flexible Ring Tire Model Validation Through ADAMS FTire Model Virtual Tests. , 2015, , .		1
178	Contact Pressure Sensitivity Analysis in N95 Filtering Facepiece Respirator With Strap Location, Friction, and Headform Material Property. , 2015, , .		1
179	Probabilistic sensitivity analysis of in-vehicle reach tasks for digital human models considering anthropometric measurement uncertainty. Robotica, 2015, 33, 498-512.	1.3	1
180	Quantitative Motor Assessment, Detection, and Suppression of Parkinson's Disease Hand Tremor: A		1

Literature Review., 2016,,.

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181	Anterior Cruciate Ligament (ACL) Injury: A Literature Review. , 2017, , .		1
182	Modelling the stochastic nature of the available coefficient of friction at footwear-floor interfaces. Ergonomics, 2017, 60, 977-984.	1.1	1
183	Examining the Robustness of Grasping Force Optimization Methods Using Uncertainty Analysis. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2018, 4, .	0.7	1
184	Approaches to Study Spine Biomechanics: A Literature Review. Advances in Intelligent Systems and Computing, 2019, , 453-462.	0.5	1
185	Human-Inspired Balance Control of a Humanoid on a Rotating Board. Advances in Intelligent Systems and Computing, 2019, , 115-126.	0.5	1
186	Human head modeling and applications. , 2019, , 217-242.		1
187	Object shape affects hand grip function for heavy objects in younger and older adults. Ergonomics, 2021, 64, 722-732.	1.1	1
188	Optimization-based subject-specific planar human vertical jumping prediction: Model development and validation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 805-818.	1.0	1
189	Assisted Spatial Sit-to-Stand Prediction—Part 2: Virtual Injured Elderly Individuals. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	1
190	Finite element-based safety prediction for hydraulic excavator rollover protective structure and experimental validation. International Journal of Crashworthiness, 2022, 27, 955-967.	1.1	1
191	Mechanics of Magnetic Robots Akin to Soft Beams Supported at Unanchored Contacts. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	1.1	1
192	Effect of Ankle-Pivot Misalignment and Upward Ankle Vertical Displacement on Stability and Equilibrium Location for an Ankle-Hip Model of Balance on a Balance Board. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	1
193	MOTION SYNTHESIS FOR A DIGITAL PREGNANT WOMAN MULTIBODY SYSTEM. International Journal of Robotics and Automation, 2013, 28, .	0.1	1
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