

Matthew B Parkinson

List of Publications by Year in descending order

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62
papers

829
citations

858243

12
h-index

721071

23
g-index

62
all docs

62
docs citations

62
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of approaches to reweighting anthropometric data. Ergonomics, 2022, 65, 1397-1409.	1.1	1
2	Broadening participation in learning factories through Industry 4.0. Procedia Manufacturing, 2020, 45, 534-539.	1.9	3
3	BUILDing a community of female makers through hands-on experiences in a university MakerSpace. , 2019, , .		3
4	The effects of seat width, load factor, and passenger demographics on airline passenger accommodation. Ergonomics, 2019, 62, 330-341.	1.1	9
5	Reweighting anthropometric data using a nearest neighbour approach. Ergonomics, 2018, 61, 923-932.	1.1	4
6	Glasses-type wearable computer displays: usability considerations examined with a 3D glasses case study. Ergonomics, 2018, 61, 670-681.	1.1	10
7	Modeling the Variability of Glenoid Geometry in Intact and Osteoarthritic Shoulders. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	0
8	Data-Driven Sizing Specification Utilizing Consumer Text Reviews. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	10
9	The Potential Effects on Design of Increased Prevalence of Obesity in US Children. , 2017, , .		0
10	A quantile-based anthropometry synthesis technique for global user populations. International Journal of Industrial Ergonomics, 2016, 53, 167-178.	1.5	12
11	A survey of anthropometry and physical accommodation in ergonomics curricula. Ergonomics, 2016, 59, 143-154.	1.1	15
12	Using Multivariate Analysis to Select Accommodation Boundary Manikins From a Population Database. , 2015, , .		0
13	An updated estimate of the body dimensions of US children. Ergonomics, 2015, 58, 1045-1057.	1.1	8
14	Estimated anthropometry for male commercial pilots in Europe and an approach to its use in seat design. International Journal of Industrial Ergonomics, 2014, 44, 769-776.	1.5	14
15	Limiting disproportionate disaccommodation in design for human variability. Ergonomics, 2014, 57, 52-65.	1.1	4
16	Considering Human Variability When Implementing Product Platforms. , 2014, , 559-585.		3
17	Application of the Generational Variety Index: A Retrospective Study of iPhone Evolution. , 2014, , 737-751.		0
18	The role of anthropometry in designing for sustainability. Ergonomics, 2013, 56, 422-439.	1.1	40

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19	Considering just noticeable difference in assessments of physical accommodation for product design. <i>Ergonomics</i> , 2013, 56, 1777-1788.	1.1	3
20	A Z-Score-Based Method to Synthesize Anthropometric Datasets for Global User Populations. , 2013, , .		3
21	Strategic Product Design for Multiple Global Markets. , 2012, , .		9
22	Designing for multiple global user populations: increasing resource allocation efficiency for greater sustainability. <i>Work</i> , 2012, 41, 2109-2116.	0.6	0
23	Application of the Generational Variety Index: A Retrospective Study of iPhone Evolution. , 2012, , .		2
24	A utility theory-based approach to reducing raw material usage in non-adjustable artifacts, tasks, and environments. <i>Work</i> , 2012, 41, 6031-6038.	0.6	0
25	Optimization of product dimensions for discrete sizing applied to a tool handle. <i>International Journal of Industrial Ergonomics</i> , 2012, 42, 56-64.	1.5	22
26	Simultaneous consideration of user acceptability and regulatory compliance in vehicle seat design. <i>International Journal of Vehicle Design</i> , 2011, 55, 162.	0.1	2
27	A Real Options-Based Approach to Designing for Changing User Populations of Long-Lifetime Products. , 2011, , .		4
28	Considering Secular and Demographic Trends in Designing Long Lifetime Products for Target User Populations. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	1.7	4
29	Considering race and gender distributions of the target user population in the multivariate design of vehicle seating. <i>International Journal of Vehicle Design</i> , 2011, 55, 174.	0.1	2
30	A comparison of methodologies for designing for human variability. <i>Journal of Engineering Design</i> , 2011, 22, 505-521.	1.1	27
31	Probability of User Fit for Spatially Optimized Products. , 2011, , .		0
32	Consideration of Demographics and Variance in Regression Approaches to Estimating Body Dimensions for Spatial Analysis of Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2010, 132, .	1.7	12
33	Creating virtual user populations by analysis of anthropometric data. <i>International Journal of Industrial Ergonomics</i> , 2010, 40, 106-111.	1.5	45
34	Reconfigurable Products and Their Means of Reconfiguration. , 2010, , .		15
35	Navigating the Barriers to Interdisciplinary Design Education: Lessons Learned From the NSF Design Workshop Series. , 2010, , .		4
36	Visual Analysis of User Accommodation. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
37	Considering Secular and Demographic Trends in Designing for Present and Future Populations. , 2010, , .		1
38	Including Preference in Anthropometry-Driven Models for Design. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	1.7	33
39	Interdisciplinary Graduate Design Programs: Results and Recommendations From a NSF Workshop. , 2009, , .		4
40	Optimization of Tool Handle Shape for a Target User Population. , 2009, , .		8
41	Modeling Variability in Torso Shape for Chair and Seat Design. , 2008, , .		27
42	Predicting 5th and 95th Percentile Anthropometric Segment Lengths From Population Stature. , 2008, , .		24
43	Optimal Product Sizing through Digital Human Models. , 2008, , .		8
44	Extrapolation of Anthropometric Measures to New Populations. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 2008, 1, 567-573.	0.3	14
45	Optimizing Truck Cab Layout for Driver Accommodation. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 1110-1117.	1.7	43
46	Including Preference in Anthropometry-Driven Models for Design. , 2007, , 397.		5
47	Standing Reach Envelopes Incorporating Anthropometric Variance and Postural Cost. , 2007, , .		3
48	Center of pressure excursion capability in performance of seated lateral-reaching tasks. Clinical Biomechanics, 2006, 21, 26-32.	0.5	25
49	Optimizing Vehicle Occupant Packaging. , 2006, , .		48
50	Considering Driver Balance Capability in Truck Shifter Design. , 2006, , .		4
51	Improved Head Restraint Design for Safety and Compliance. , 2006, , 133.		10
52	Improving an Ergonomics Testing Procedure via Approximation-based Adaptive Experimental Design. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 1006-1013.	1.7	27
53	Robust Truck Cabin Layout Optimization Using Advanced Driver Variance Models. , 2005, , 1103.		7
54	Balance Maintenance during Seated Reaches of People with Spinal Cord Injury. , 2004, , .		3

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55	Modeling of object movement capability in the spinal cord injured population. International Journal of Industrial Ergonomics, 2004, 33, 229-236.	1.5	10
56	Assessing the Validity of Kinematically Generated Reach Envelopes for Simulations of Vehicle Operators. , 2003, , .		15
57	Adaptive Experimental Design Applied to Ergonomics Testing Procedure. , 2002, , 529.		27
58	Multicriteria Optimization in Product Platform Design. Journal of Mechanical Design, Transactions of the ASME, 2001, 123, 199-204.	1.7	142
59	A New Approach to Modeling Driver Reach. , 0, , .		27
60	Torso Kinematics in Seated Reaches. , 0, , .		3
61	Anthropometry for a North American Manufacturing Population. , 0, , .		6
62	Using Designing for Human Variability to optimize Aircraft eat Layout. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 2, 1641-1648.	0.4	12