Richard J Holden

List of Publications by Year
in descending order

135 papers	7,494 citations	94269 37 h-index	60497 81 g-index
143 all docs	143 docs citations	143 times ranked	7096 citing authors

#	Article	IF	Citations
1	The Technology Acceptance Model: Its past and its future in health care. Journal of Biomedical Informatics, 2010, 43, 159-172.	2.5	1,612
2	SEIPS 2.0: a human factors framework for studying and improving the work of healthcare professionals and patients. Ergonomics, 2013, 56, 1669-1686.	1.1	788
3	Human factors systems approach to healthcare quality and patient safety. Applied Ergonomics, 2014, 45, 14-25.	1.7	478
4	Lean Thinking in Emergency Departments: A Critical Review. Annals of Emergency Medicine, 2011, 57, 265-278.	0.3	390
5	Systematic review of smartphone-based passive sensing for health and wellbeing. Journal of Biomedical Informatics, 2018, 77, 120-132.	2.5	247
6	Transforming consumer health informatics through a patient work framework: connecting patients to context. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 2-10.	2.2	201
7	A human factors framework and study of the effect of nursing workload on patient safety and employee quality of working life. BMJ Quality and Safety, 2011, 20, 15-24.	1.8	180
8	The patient work system: An analysis of self-care performance barriers among elderly heart failure patients and their informal caregivers. Applied Ergonomics, 2015, 47, 133-150.	1.7	155
9	Physiciansâ€™ beliefs about using EMR and CPOE: In pursuit of a contextualized understanding of health IT use behavior. International Journal of Medical Informatics, 2010, 79, 71-80.	1.6	141
10	Crossing levels in systems ergonomics: A framework to support â€˜mesoergonomicâ€™ inquiry. Applied Ergonomics, 2014, 45, 45-54.	1.7	116
11	How does lean work in emergency care? A case study of a lean-inspired intervention at the Astrid Lindgren Children's hospital, Stockholm, Sweden. BMC Health Services Research, 2012, 12, 28.	0.9	115
12	Cognitive performance-altering effects of electronic medical records: an application of the human factors paradigm for patient safety. Cognition, Technology and Work, 2011, 13, 11-29.	1.7	111
13	A theoretical model of health information technology usage behaviour with implications for patient safety. Behaviour and Information Technology, 2009, 28, 21-38.	2.5	102
14	Know thy eHealth user: Development of biopsychosocial personas from a study of older adults with heart failure. International Journal of Medical Informatics, 2017, 108, 158-167.	1.6	98
15	Toward a theoretical approach to medical error reporting system research and design. Applied Ergonomics, 2006, 37, 283-295.	1.7	82
16	What Stands in the Way of Technology-Mediated Patient Safety Improvements? A Study of Facilitators and Barriers to Physiciansâ€™ Use of Electronic Health Records. Journal of Patient Safety, 2011, 7, 193-203.	0.7	82
17	The Technology Acceptance Model for Resource-Limited Settings (TAM-RLS): A Novel Framework for Mobile Health Interventions Targeted to Low-Literacy End-Users in Resource-Limited Settings. AIDS and Behavior, 2017, 21, 3129-3140.	1.4	82
18	Categorizing Health Outcomes and Efficacy of mHealth Apps for Persons With Cognitive Impairment: A Systematic Review. Journal of Medical Internet Research, 2017, 19, e301.	2.1	82

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19	A Review of Medical Error Reporting System Design Considerations and a Proposed Cross-Level Systems Research Framework. Human Factors, 2007, 49, 257-276.	2.1	81
20	Macroergonomic factors in the patient work system: examining the context of patients with chronic illness. Ergonomics, 2017, 60, 26-43.	1.1	78
21	The Challenges of Measuring, Improving, and Reporting Quality in Primary Care. Annals of Family Medicine, 2017, 15, 175-182.	0.9	68
22	A change management framework for macroergonomic field research. Applied Ergonomics, 2008, 39, 459-474.	1.7	66
23	Using a sociotechnical framework to understand adaptations in health IT implementation. International Journal of Medical Informatics, 2013, 82, e331-e344.	1.6	63
24	SEIPS 101 and seven simple SEIPS tools. BMJ Quality and Safety, 2021, 30, 901-910.	1.8	63
25	Macroergonomics in Health Care Quality and Patient Safety. Reviews of Human Factors and Ergonomics, 2013, 8, 4-54.	0.5	61
26	Automation and adaptation: nursesâ€™ problem-solving behavior following the implementation of bar-coded medication administration technology. Cognition, Technology and Work, 2013, 15, 283-296.	1.7	60
27	Effects of mental demands during dispensing on perceived medication safety and employee well-being: A study of workload in pediatric hospital pharmacies. Research in Social and Administrative Pharmacy, 2010, 6, 293-306.	1.5	59
28	Interruptions in the wild: Development of a sociotechnical systems model of interruptions in the emergency department through a systematic review. Applied Ergonomics, 2015, 51, 244-254.	1.7	59
29	Modeling nurses' acceptance of bar coded medication administration technology at a pediatric hospital. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 1050-1058.	2.2	58
30	Untold Stories in User-Centered Design of Mobile Health: Practical Challenges and Strategies Learned From the Design and Evaluation of an App for Older Adults With Heart Failure. JMIR MHealth and UHealth, 2020, 8, e17703.	1.8	54
31	Data collection challenges in community settings: insights from two field studies of patients with chronic disease. Quality of Life Research, 2015, 24, 1043-1055.	1.5	53
32	Nursesâ€™ perceptions, acceptance, and use of a novel in-room pediatric ICU technology: testing an expanded technology acceptance model. BMC Medical Informatics and Decision Making, 2016, 16, 145.	1.5	49
33	Performance-Shaping Factors Affecting Older Adultsâ€™ Hospital-to-Home Transition Success: A Systems Approach. Gerontologist, The, 2019, 59, 303-314.	2.3	48
34	Thatâ€™s nice, but what does IT do? Evaluating the impact of bar coded medication administration by measuring changes in the process of care. International Journal of Industrial Ergonomics, 2011, 41, 370-379.	1.5	47
35	Healthcare workers' perceptions of lean: A context-sensitive, mixed methods study in three Swedish hospitals. Applied Ergonomics, 2015, 47, 181-192.	1.7	45
36	Social and personal normative influences on healthcare professionals to use information technology: towards a more robust social ergonomics. Theoretical Issues in Ergonomics Science, 2012, 13, 546-569.	1.0	44

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37	Patient ergonomics: 10-year mapping review of patient-centered human factors. Applied Ergonomics, 2020, 82, 102972.	1.7	44
38	Usability and feasibility of consumer-facing technology to reduce unsafe medication use by older adults. Research in Social and Administrative Pharmacy, 2020, 16, 54-61.	1.5	42
39	Technical infrastructure implications of the patient work framework. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, e213-e215.	2.2	41
40	Medication-related cognitive artifacts used by older adults with heart failure. Health Policy and Technology, 2015, 4, 387-398.	1.3	40
41	Human Factors Analysis, Design, and Evaluation of Engage, a Consumer Health IT Application for Geriatric Heart Failure Self-Care. International Journal of Human-Computer Interaction, 2017, 33, 298-312.	3.3	39
42	Applying participatory design to a pharmacy system intervention. Research in Social and Administrative Pharmacy, 2019, 15, 1358-1367.	1.5	37
43	Systematic review of the effectiveness of health-related behavioral interventions using portable activity sensing devices (PASDs). Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 1002-1013.	2.2	35
44	Self-reported violations during medication administration in two paediatric hospitals. BMJ Quality and Safety, 2012, 21, 408-415.	1.8	34
45	Medication Management: The Macrocognitive Workflow of Older Adults With Heart Failure. JMIR Human Factors, 2016, 3, e27.	1.0	34
46	Self-care Barriers Reported by Emergency Department Patients With Acute Heart Failure: A Sociotechnical Systems-Based Approach. Annals of Emergency Medicine, 2015, 66, 1-12.e2.	0.3	33
47	A Simplified System Usability Scale (SUS) for Cognitively Impaired and Older Adults. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2020, 9, 180-182.	0.2	31
48	Improving over-the-counter medication safety for older adults: A study protocol for a demonstration and dissemination study. Research in Social and Administrative Pharmacy, 2017, 13, 930-937.	1.5	30
49	Medication adherence: staying within the boundaries of safety. Ergonomics, 2018, 61, 82-103.	1.1	30
50	Consumer Health Informatics: Empowering Healthy-Living-Seekers Through mHealth. Progress in Cardiovascular Diseases, 2017, 59, 479-486.	1.6	29
51	A Case Study of Three Swedish Hospitalsâ€™ Strategies for Implementing Lean Production. Nordic Journal of Working Life Studies, 2016, 6, 105.	0.5	29
52	Visualization of Cardiac Implantable Electronic Device Data for Older Adults Using Participatory Design. Applied Clinical Informatics, 2019, 10, 707-718.	0.8	28
53	Understanding older adults' medication decision making and behavior: A study on over-the-counter (OTC) anticholinergic medications. Research in Social and Administrative Pharmacy, 2019, 15, 53-60.	1.5	28
54	Human factors/ergonomics work system analysis of patient work: state of the science and future directions. International Journal for Quality in Health Care, 2021, 33, 60-71.	0.9	28

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55	Pharmacy workersâ€™ perceptions and acceptance of bar-coded medication technology in a pediatric hospital. Research in Social and Administrative Pharmacy, 2012, 8, 509-522.	1.5	27
56	User-Centered Evaluations with Older Adults: Testing the Usability of a Mobile Health System for Heart Failure Self-Management. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 6-10.	0.2	27
57	Patient decision-making personas: An application of a patient-centered cognitive task analysis (P-CTA). Applied Ergonomics, 2020, 87, 103107.	1.7	26
58	Performance barriers among elderly chronic heart failure patients. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 758-762.	0.2	25
59	Agile Innovation to transform healthcare: innovating in complex adaptive systems is an everyday process, not a light bulb event. BMJ Innovations, 2021, 7, 499-505.	1.0	24
60	Infinicare framework for integrated understanding of health-related activities in clinical and daily-living contexts. Health Systems, 2018, 7, 66-78.	0.9	22
61	Health Care Human Factors/Ergonomics Fieldwork in Home and Community Settings. Ergonomics in Design, 2016, 24, 4-9.	0.4	20
62	Going Remoteâ€”Demonstration and Evaluation of Remote Technology Delivery and Usability Assessment With Older Adults: Survey Study. JMIR MHealth and UHealth, 2021, 9, e26702.	1.8	19
63	Medication management strategies used by older adults with heart failure: A systems-based analysis. European Journal of Cardiovascular Nursing, 2018, 17, 418-428.	0.4	18
64	Health information management practices in informal caregiving: An artifacts analysis and implications for IT design. International Journal of Medical Informatics, 2018, 120, 31-41.	1.6	18
65	Developing the Agile Implementation Playbook for Integrating Evidence-Based Health Care Services Into Clinical Practice. Academic Medicine, 2019, 94, 556-561.	0.8	18
66	Packages of Participation: Swedish Employeesâ€™ Experience of Lean Depends on How They Are Involved. IIE Transactions on Occupational Ergonomics and Human Factors, 2013, 1, 93-108.	0.5	17
67	Medication transitions: Vulnerable periods of change in need of human factors and ergonomics. Applied Ergonomics, 2021, 90, 103279.	1.7	17
68	From group work to teamwork: A case study of â€œLeanâ€•rapid process improvement in the ThedaCare Information Technology Department. IIE Transactions on Healthcare Systems Engineering, 2012, 2, 190-201.	0.8	16
69	Patient-centered Design Grounded in User and Clinical Realities: Towards Valid Digital Health. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2019, 8, 100-104.	0.2	16
70	Assessing the distributed nature of home-based heart failure medication management in older adults. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 753-757.	0.2	14
71	Rapid Translational Field Research Approach for eHealth R&D. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2016, 5, 25-27.	0.2	14
72	Human factors in mental healthcare: A work system analysis of a community-based program for older adults with depression and dementia. Applied Ergonomics, 2017, 64, 27-40.	1.7	14

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73	Modeling Personas for Older Adults with Heart Failure. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1072-1076.	0.2	14
74	Multicomponent behavioral intervention to reduce exposure to anticholinergics in primary care older adults. Journal of the American Geriatrics Society, 2021, 69, 1490-1499.	1.3	14
75	Parental Perceptions of Displayed Patient Data in a PICU: An Example of Unintentional Empowerment*. Pediatric Critical Care Medicine, 2019, 20, 435-441.	0.2	13
76	Unmet information needs of clinical teams delivering care to complex patients and design strategies to address those needs. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 690-699.	2.2	13
77	Occupational Macroergonomics: Principles, Scope, Value, and Methods. IIE Transactions on Occupational Ergonomics and Human Factors, 2015, 3, 1-8.	0.5	12
78	Mobile enhancement of motivation in schizophrenia: A pilot randomized controlled trial of a personalized text message intervention for motivation deficits.. Journal of Consulting and Clinical Psychology, 2020, 88, 923-936.	1.6	12
79	The Work and Work Systems of Patients: A New Frontier for Macroergonomics in Health Care. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 708-712.	0.2	11
80	Using cardiac implantable electronic device data to facilitate health decision making: A design study. International Journal of Industrial Ergonomics, 2018, 64, 143-154.	1.5	11
81	A pilot study of decision factors influencing over-the-counter medication selection and use by older adults. Research in Social and Administrative Pharmacy, 2020, 16, 1117-1120.	1.5	11
82	Relationship between number of health problems addressed during a primary care patient visit and clinician workload. Applied Ergonomics, 2020, 84, 103035.	1.7	11
83	Patient responses to daily cardiac resynchronization therapy device data: A pilot trial assessing a novel patient-centered digital dashboard in everyday life. Cardiovascular Digital Health Journal, 2020, 1, 97-106.	0.5	11
84	Realizing the Potential of Patient Engagement: Designing IT to Support Health in Everyday Life. Studies in Health Technology and Informatics, 2016, 222, 237-47.	0.2	11
85	Quality of Mobile Apps for Care Partners of People With Alzheimer Disease and Related Dementias: Mobile App Rating Scale Evaluation. JMIR MHealth and UHealth, 2022, 10, e33863.	1.8	11
86	Patient Work as a Maturing Approach Within HF/E. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 657-661.	0.2	10
87	Activity Theory Analysis of Heart Failure Self-Care. Mind, Culture, and Activity, 2018, 25, 22-39.	1.1	10
88	Naturalistic Decision Making by Older Adults with Chronic Heart Failure: An Exploratory Study Using the Critical Incident Technique. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 568-572.	0.2	10
89	Human factors and ergonomics methods for pharmacy research and clinical practice. Research in Social and Administrative Pharmacy, 2021, 17, 2019-2027.	1.5	10
90	Usability-In-Placeâ€"Remote Usability Testing Methods for Homebound Older Adults: Rapid Literature Review. JMIR Formative Research, 2021, 5, e26181.	0.7	10

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91	Best Practices for Health Informatician Involvement in Interprofessional Health Care Teams. Applied Clinical Informatics, 2018, 09, 141-148.	0.8	9
92	Town Hall on Patient-Centered Human Factors and Ergonomics. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 465-468.	0.2	9
93	Field-Based Human Factors in Home and Community Settings. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 562-566.	0.2	8
94	Preventing Alzheimer Disease by Deprescribing Anticholinergic Medications. JAMA Internal Medicine, 2019, 179, 1093.	2.6	8
95	Knowledge among patients with heart failure: A narrative synthesis of qualitative research. Heart and Lung: Journal of Acute and Critical Care, 2019, 48, 477-485.	0.8	8
96	2019 Town Hall on Human Factors and Ergonomics for Patient Work. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 725-728.	0.2	8
97	Technology intervention to support caregiving for Alzheimerâ€™s disease (I-CARE): study protocol for a randomized controlled pilot trial. Pilot and Feasibility Studies, 2021, 7, 23.	0.5	8
98	Managerial Practices that Support Lean and Socially Sustainable Working Conditions. Nordic Journal of Working Life Studies, 2017, 7, .	0.5	8
99	Helping the Helpers â€“ A research protocol for user-centered technology to aid caregiver management of medications for people with Alzheimer's disease and related dementias. Research in Social and Administrative Pharmacy, 2022, 18, 3680-3686.	1.5	8
100	The Patient in Patient Safety: Starting the Conversation. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2018, 7, 173-177.	0.2	7
101	Reducing anticholinergic medication exposure among older adults using consumer technology: Protocol for a randomized clinical trial. Research in Social and Administrative Pharmacy, 2021, 17, 986-992.	1.5	7
102	Impact of a pilot community pharmacy system redesign on reducing over-the-counter medication misuse in older adults. Journal of the American Pharmacists Association: JAPhA, 2021, 61, 555-564.	0.7	7
103	Naturalistic Decision Making in Everyday Self-care Among Older Adults With Heart Failure. Journal of Cardiovascular Nursing, 2022, 37, 167-176.	0.6	7
104	Mind the gulfs. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 481-485.	0.2	6
105	Patient Work Methods: Current Methods of Engaging Patients in Systems Design in Clinical, Community and Extraterrestrial Settings. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 625-629.	0.2	6
106	Uncertainty Management Among Older Adults with Heart Failure: Responses to Receiving Implanted Device Data using a Fictitious Scenario Interview Method. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2019, 8, 127-130.	0.2	6
107	Human Factors Engineering and Human-Computer Interaction: Supporting User Performance and Experience. , 2022, , 119-132.		6
108	Human Factors in Pharmacy. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 666-670.	0.2	5

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109	Capturing the Medication Management Work System of Older Adults Using a Digital Diary Method. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 555-559.	0.2	5
110	Providersâ€™ assessment of a novel interactive health information technology in a pediatric intensive care unit. JAMIA Open, 2018, 1, 32-41.	1.0	5
111	Beyond Disease: Technologies for Health Promotion. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2019, 8, 62-66.	0.2	5
112	Design for self-care. , 2020, , 277-302.		5
113	Task, usability, and error analyses of ambulance-based telemedicine for stroke care. IISE Transactions on Healthcare Systems Engineering, 0, , 1-17.	1.2	5
114	An exploratory study investigating the barriers, facilitators, and demands affecting caregivers in a telemedicine integrated ambulance-based setting for stroke care. Applied Ergonomics, 2021, 97, 103537.	1.7	5
115	What is IT? New Conceptualizations and Measures of Pediatric Nurses' Acceptance of Bar-Coded Medication Administration Information Technology. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 768-772.	0.2	4
116	Exploring the Context of Chronic Illness Self-Care Using Geospatial Analyses. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2015, 4, 37-41.	0.2	4
117	An Eastâ€“West comparison of self-care barriers in heart failure. European Heart Journal: Acute Cardiovascular Care, 2019, 8, 615-622.	0.4	4
118	It's time to bring human factors to primary care policy and practice. Applied Ergonomics, 2020, 85, 103077.	1.7	4
119	Researcher Reflections on Human Factors and Health Equity. , 2019, , 51-62.		4
120	Nursing Workload and its Effect on Patient and Employee Safety. Proceedings of the Human Factors and Ergonomics Society, 2007, 51, 760-764.	0.2	3
121	Improving Care Transitions in Healthcare: A Human Factors/Ergonomics (HFE) Approach. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 551-555.	0.2	3
122	Exploring Interruptions in the Wild. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 733-737.	0.2	2
123	The Patient in Patient Safety: Unique Perspectives of Researchers Who are also Patients. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2020, 9, 292-296.	0.2	1
124	The Patient Factor: Involving Patient and Family Stakeholders as Advisors, Co-Designers, Citizen Scientists, and Peers. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 622-626.	0.2	1
125	Human-Centered Design and Research in Deprescribing. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 398-402.	0.2	1
126	Community-Based Service Providersâ€™ Experiences With Activities for Persons With Dementia. International Journal of Aging and Human Development, 2020, 93, 009141502097462.	1.0	0

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127	Remembering Ben-Tzion Karsh's scholarship, impact, and legacy. Applied Ergonomics, 2021, 92, 103308.	1.7	0
128	Patient Ergonomics in Hospital and Community Settings. Lecture Notes in Networks and Systems, 2021, , 336-343.	0.5	0
129	11384 Medication Use Safety During Care Transitions for Children with Medical Complexity. Journal of Clinical and Translational Science, 2021, 5, 133-133.	0.3	0
130	The Patient in Patient Safety: Contemporary Issues, From COVID-19 to Citizen Science. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2021, 10, 301-303.	0.2	0
131	The Case for Human-Centered Research on the Complex Patient Journey of Deprescribing. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2021, 10, 276-280.	0.2	0
132	Patient Safety Learning Labs: What are we actually learning. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 593-597.	0.2	0
133	Improving Health Through the Application of Ergonomics to Food Practices. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 1162-1166.	0.2	0
134	Applying human factors and ergonomics methods to pharmaceutical health services research. , 2022, , 3-19.		0
135	A human factors and ergonomics approach to conceptualizing care work among caregivers of people with dementia. Applied Ergonomics, 2022, 104, 103820.	1.7	0