

Stanley J Hamstra

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

10,219
citations

61687

45
h-index

39744

98
g-index

138
all docs

138
docs citations

138
times ranked

7926
citing authors

#	ARTICLE	IF	CITATIONS
1	Technology-Enhanced Simulation for Health Professions Education. JAMA - Journal of the American Medical Association, 2011, 306, 978-88.	3.8	1,379
2	Comparative effectiveness of instructional design features in simulation-based education: Systematic review and meta-analysis. Medical Teacher, 2013, 35, e867-e898.	1.0	491
3	Reconsidering Fidelity in Simulation-Based Training. Academic Medicine, 2014, 89, 387-392.	0.8	420
4	The Educational Impact of Bench Model Fidelity on the Acquisition of Technical Skill. Annals of Surgery, 2004, 240, 374-381.	2.1	369
5	Value of Debriefing during Simulated Crisis Management. Anesthesiology, 2006, 105, 279-285.	1.3	359
6	THE EFFECT OF BENCH MODEL FIDELITY ON ENDOUROLOGICAL SKILLS: A RANDOMIZED CONTROLLED STUDY. Journal of Urology, 2002, 167, 1243-1247.	0.2	323
7	Cost: The missing outcome in simulation-based medical education research: A systematic review. Surgery, 2013, 153, 160-176.	1.0	295
8	Nontechnical Skills in Anesthesia Crisis Management with Repeated Exposure to Simulation-based Education. Anesthesiology, 2005, 103, 241-248.	1.3	277
9	State of the Evidence on Simulation-Based Training for Laparoscopic Surgery. Annals of Surgery, 2013, 257, 586-593.	2.1	269
10	Mastery Learning for Health Professionals Using Technology-Enhanced Simulation. Academic Medicine, 2013, 88, 1178-1186.	0.8	267
11	Comparative Effectiveness of Technology-Enhanced Simulation Versus Other Instructional Methods. Simulation in Healthcare, 2012, 7, 308-320.	0.7	258
12	The Ottawa Surgical Competency Operating Room Evaluation (O-SCORE). Academic Medicine, 2012, 87, 1401-1407.	0.8	251
13	What counts as validity evidence? Examples and prevalence in a systematic review of simulation-based assessment. Advances in Health Sciences Education, 2014, 19, 233-250.	1.7	235
14	Effect of visual-spatial ability on learning of spatially-complex surgical skills. Lancet, The, 2002, 359, 230-231.	6.3	220
15	Technology-Enhanced Simulation to Assess Health Professionals. Academic Medicine, 2013, 88, 872-883.	0.8	215
16	Randomized controlled trial of virtual reality simulator training: transfer to live patients. American Journal of Surgery, 2007, 194, 205-211.	0.9	194
17	Entrustability Scales. Academic Medicine, 2016, 91, 186-190.	0.8	189
18	Gap detection thresholds as a function of tonal duration for younger and older listeners. Journal of the Acoustical Society of America, 1999, 106, 371-380.	0.5	173

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19	Parting the Clouds: Three Professionalism Frameworks in Medical Education. <i>Academic Medicine</i> , 2016, 91, 1606-1611.	0.8	169
20	Dissociation of discrimination thresholds for time to contact and for rate of angular expansion. <i>Vision Research</i> , 1993, 33, 447-462.	0.7	156
21	Visual-spatial ability correlates with efficiency of hand motion and successful surgical performance. <i>Surgery</i> , 2003, 134, 750-757.	1.0	156
22	LABORATORY BASED TRAINING IN UROLOGICAL MICROSURGERY WITH BENCH MODEL SIMULATORS: A RANDOMIZED CONTROLLED TRIAL EVALUATING THE DURABILITY OF TECHNICAL SKILL. <i>Journal of Urology</i> , 2004, 172, 378-381.	0.2	142
23	Feedback for simulation-based procedural skills training: a meta-analysis and critical narrative synthesis. <i>Advances in Health Sciences Education</i> , 2014, 19, 251-272.	1.7	140
24	Shape discrimination and the judgement of perfect symmetry: Dissociation of shape from size. <i>Vision Research</i> , 1992, 32, 1845-1864.	0.7	129
25	A NOVEL APPROACH TO ENDUROLOGICAL TRAINING: TRAINING AT THE SURGICAL SKILLS CENTER. <i>Journal of Urology</i> , 2001, 166, 1261-1266.	0.2	122
26	Barriers to use of simulation-based education. <i>Canadian Journal of Anaesthesia</i> , 2005, 52, 944-950.	0.7	121
27	Evaluating the effectiveness of a 2-year curriculum in a surgical skills center. <i>American Journal of Surgery</i> , 2003, 185, 378-385.	0.9	116
28	Teaching Technical Skills. <i>Plastic and Reconstructive Surgery</i> , 2002, 109, 258-264.	0.7	107
29	Self-regulated learning in simulation-based training: a systematic review and meta-analysis. <i>Medical Education</i> , 2015, 49, 368-378.	1.1	104
30	Validation of novel and objective measures of microsurgical skill: Hand-motion analysis and stereoscopic visual acuity. <i>Microsurgery</i> , 2003, 23, 317-322.	0.6	102
31	Effect of age on detection of gaps in speech and nonspeech markers varying in duration and spectral symmetry. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 1143.	0.5	100
32	Laparoscopic simulation training with proficiency targets improves practice and performance of novice surgeons. <i>American Journal of Surgery</i> , 2010, 199, 72-80.	0.9	85
33	Reflections on the First 2 Years of Milestone Implementation. <i>Journal of Graduate Medical Education</i> , 2015, 7, 506-511.	0.6	83
34	Duty Hours Reforms in the United States, France, and Canada: Is It Time to Refocus Our Attention on Education?. <i>Academic Medicine</i> , 2006, 81, 1045-1051.	0.8	72
35	Competency Crosswalk: A Multispecialty Review of the Accreditation Council for Graduate Medical Education Milestones Across Four Competency Domains. <i>Academic Medicine</i> , 2018, 93, 1035-1041.	0.8	71
36	A New Instrument for Assessing Resident Competence in Surgical Clinic: The Ottawa Clinic Assessment Tool. <i>Journal of Surgical Education</i> , 2016, 73, 575-582.	1.2	70

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37	Entrustment Decision Making: Extending Miller's Pyramid. <i>Academic Medicine</i> , 2021, 96, 199-204.	0.8	68
38	Evaluation of Patient Simulator Performance as an Adjunct to the Oral Examination for Senior Anesthesia Residents. <i>Anesthesiology</i> , 2006, 104, 475-481.	1.3	67
39	The effect of bench model fidelity on endourological skills: a randomized controlled study. <i>Journal of Urology</i> , 2002, 167, 1243-7.	0.2	67
40	Teaching Medical Education Principles and Methods to Faculty Using an Active Learning Approach: The University of Michigan Medical Education Scholars Program. <i>Academic Medicine</i> , 2006, 81, 975-978.	0.8	64
41	Visual-spatial abilities in surgical training. <i>American Journal of Surgery</i> , 2000, 179, 469-471.	0.9	61
42	Teaching Technical Skills to Surgical Residents. <i>Clinical Orthopaedics and Related Research</i> , 2006, 449, 108-115.	0.7	57
43	The Effect and Use of Milestones in the Assessment of Neurological Surgery Residents and Residency Programs. <i>Journal of Surgical Education</i> , 2018, 75, 147-155.	1.2	56
44	Correlations Between Ratings on the Resident Annual Evaluation Summary and the Internal Medicine Milestones and Association With ABIM Certification Examination Scores Among US Internal Medicine Residents, 2013-2014. <i>JAMA - Journal of the American Medical Association</i> , 2016, 316, 2253.	3.8	54
45	Using Longitudinal Milestones Data and Learning Analytics to Facilitate the Professional Development of Residents: Early Lessons From Three Specialties. <i>Academic Medicine</i> , 2020, 95, 97-103.	0.8	50
46	Evidence for a neural mechanism that encodes angles. <i>Vision Research</i> , 1996, 36, 323-IN3.	0.7	47
47	Beyond Fidelity. <i>Simulation in Healthcare</i> , 2017, 12, 117-123.	0.7	45
48	The Benefit of the Operating Microscope for Access Cavity Preparation by Undergraduate Students. <i>Journal of Endodontics</i> , 2004, 30, 863-867.	1.4	41
49	Review article: New directions in medical education related to anesthesiology and perioperative medicine. <i>Canadian Journal of Anaesthesia</i> , 2012, 59, 136-150.	0.7	41
50	Comparison of Male and Female Resident Milestone Assessments During Emergency Medicine Residency Training: A National Study. <i>Academic Medicine</i> , 2020, 95, 263-268.	0.8	40
51	Effective Training and Assessment of Surgical Skills, and the Correlates of Performance. <i>Surgical Innovation</i> , 2005, 12, 71-77.	0.4	39
52	Shape Discrimination for Motion-Defined and Contrast-Defined form: Squareness is Special. <i>Perception</i> , 1991, 20, 315-336.	0.5	38
53	Visual spatial ability and fMRI cortical activation in surgery residents. <i>American Journal of Surgery</i> , 2007, 193, 507-510.	0.9	38
54	The Internal Medicine Reporting Milestones: Cross-sectional Description of Initial Implementation in U.S. Residency Programs. <i>Annals of Internal Medicine</i> , 2016, 165, 356.	2.0	38

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55	The Rapid Assessment of Competency in Echocardiography Scale. <i>Journal of Ultrasound in Medicine</i> , 2016, 35, 1457-1463.	0.8	38
56	A procedural skills OSCE: assessing technical and non-technical skills of internal medicine residents. <i>Advances in Health Sciences Education</i> , 2015, 20, 85-100.	1.7	34
57	Dissociation of orientation discrimination from form detection for motion-defined bars and luminance-defined bars: Effects of dot lifetime and presentation duration. <i>Vision Research</i> , 1992, 32, 1655-1666.	0.7	31
58	A National Study of Longitudinal Consistency in ACGME Milestone Ratings by Clinical Competency Committees: Exploring an Aspect of Validity in the Assessment of Residents'™ Competence. <i>Academic Medicine</i> , 2019, 94, 1522-1531.	0.8	31
59	Key considerations for the success of Medical Education Research and Innovation units in Canada: unit director perceptions. <i>Advances in Health Sciences Education</i> , 2014, 19, 361-377.	1.7	30
60	Exploring the institutional logics of health professions education scholarship units. <i>Medical Education</i> , 2017, 51, 755-767.	1.1	30
61	Working Definitions of the Roles and an Organizational Structure in Health Professions Education Scholarship. <i>Academic Medicine</i> , 2017, 92, 205-208.	0.8	29
62	Depth perception deficits in glaucoma suspects. <i>British Journal of Ophthalmology</i> , 2006, 90, 979-981.	2.1	28
63	Differences in the perceived impact of sleep deprivation among surgical and non-surgical residents. <i>Medical Education</i> , 2008, 42, 459-467.	1.1	28
64	Keynote Address: The Focus on Competencies and Individual Learner Assessment as Emerging Themes in Medical Education Research. <i>Academic Emergency Medicine</i> , 2012, 19, 1336-1343.	0.8	27
65	Prospective Comparison of Live Evaluation and Video Review in the Evaluation of Operator Performance in a Pediatric Emergency Airway Simulation. <i>Journal of Graduate Medical Education</i> , 2012, 4, 312-316.	0.6	27
66	Review article: Leading the future: guiding two predominant paradigm shifts in medical education through scholarship. <i>Canadian Journal of Anaesthesia</i> , 2012, 59, 213-223.	0.7	27
67	A Suggested Core Content for Education Scholarship Fellowships in Emergency Medicine. <i>Academic Emergency Medicine</i> , 2012, 19, 1425-1433.	0.8	26
68	Straight Line Scoring by Clinical Competency Committees Using Emergency Medicine Milestones. <i>Journal of Graduate Medical Education</i> , 2017, 9, 716-720.	0.6	24
69	Interpretation of three-dimensional structure from two-dimensional endovascular images: implications for educators in vascular surgery. <i>Journal of Vascular Surgery</i> , 2004, 39, 1305-1311.	0.6	23
70	Orthopaedic Surgery Residency Milestones: Initial Formulation and Future Directions. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2020, 28, e1-e8.	1.1	22
71	Becoming a deliberately developmental organization: Using competency based assessment data for organizational development. <i>Medical Teacher</i> , 2021, 43, 801-809.	1.0	22
72	Reporting quality and risk of bias in randomised trials in health professions education. <i>Medical Education</i> , 2017, 51, 61-71.	1.1	21

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73	Shape discrimination for rectangles defined by disparity alone, by disparity plus luminance and by disparity plus motion. <i>Vision Research</i> , 1994, 34, 2277-2291.	0.7	20
74	On the validity of summative entrustment decisions. <i>Medical Teacher</i> , 2021, 43, 780-787.	1.0	20
75	Needs assessment of neurosurgery trainees: a survey study of two large training programs in the developing and developed worlds. <i>World Neurosurgery</i> , 2006, 66, 117-124.	1.3	19
76	Psychometrics and its discontents: an historical perspective on the discourse of the measurement tradition. <i>Advances in Health Sciences Education</i> , 2016, 21, 719-729.	1.7	18
77	Healthcare providers' perceptions of a situational awareness display for emergency department resuscitation: a simulation qualitative study. <i>International Journal for Quality in Health Care</i> , 2018, 30, 16-22.	0.9	18
78	Expertise in Medicine and Surgery. , 0, , 331-355.		18
79	Feeling pressure to stay late: socialisation and professional identity formation in graduate medical education. <i>Medical Education</i> , 2008, 42, 7-9.	1.1	17
80	Visual Processing of the Motion of an Object in Three Dimensions for a Stationary or a Moving Observer. <i>Perception</i> , 1995, 24, 87-103.	0.5	16
81	The Objective Assessment of Experts' and Novices' Suturing Skills Using An Image Analysis Program. <i>Academic Medicine</i> , 2013, 88, 260-264.	0.8	16
82	Growing the 'SEAD': Expansion of the Surgical Exploration and Discovery Program. <i>Journal of Surgical Education</i> , 2016, 73, 101-110.	1.2	16
83	Health Professions Education Scholarship Unit Leaders as Institutional Entrepreneurs. <i>Academic Medicine</i> , 2017, 92, 1189-1195.	0.8	16
84	The Evolution of Assessment: Thinking Longitudinally and Developmentally. <i>Academic Medicine</i> , 2020, 95, S7-S9.	0.8	16
85	Next Steps in the Implementation of Learning Analytics in Medical Education: Consensus From an International Cohort of Medical Educators. <i>Journal of Graduate Medical Education</i> , 2020, 12, 303-311.	0.6	16
86	Comparison of Traditional Didactic Seminar to High-Fidelity Simulation for Teaching Electroconvulsive Therapy Technique to Psychiatry Trainees. <i>Journal of ECT</i> , 2013, 29, 291-296.	0.3	15
87	Unemployment in an Underserved Specialty?: The Need for Co-ordinated Workforce Planning in Canadian Neurosurgery. <i>Canadian Journal of Neurological Sciences</i> , 2006, 33, 170-174.	0.3	14
88	'GIOSAT': a tool to assess CanMEDS competencies during simulated crises. <i>Canadian Journal of Anaesthesia</i> , 2013, 60, 280-289.	0.7	14
89	A qualitative exploration of which resident skills parents in pediatric emergency departments can assess. <i>Medical Teacher</i> , 2016, 38, 1118-1124.	1.0	14
90	A Validity Framework for Effective Analysis and Interpretation of Milestones Data. <i>Journal of Graduate Medical Education</i> , 2021, 13, 75-80.	0.6	14

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91	Clarifying essential terminology in entrustment. <i>Medical Teacher</i> , 2021, 43, 737-744.	1.0	14
92	A validated search assessment tool: assessing practice-based learning and improvement in a residency program. <i>Journal of the Medical Library Association: JMLA</i> , 2011, 99, 77-81.	0.6	13
93	Faculty Development in Medical Education Research. <i>Academic Emergency Medicine</i> , 2012, 19, 1462-1467.	0.8	13
94	Cognitive challenges of junior residents attempting to learn surgical skills by observing procedures. <i>American Journal of Surgery</i> , 2019, 218, 430-435.	0.9	13
95	The development of the PARENTS: a tool for parents to assess residents'™ non-technical skills in pediatric emergency departments. <i>BMC Medical Education</i> , 2017, 17, 210.	1.0	12
96	Outcomes in the age of competency-based medical education: Recommendations for emergency medicine training in Canada from the 2019 symposium of academic emergency physicians. <i>Canadian Journal of Emergency Medicine</i> , 2020, 22, 204-214.	0.5	12
97	Overcoming Barriers to Addressing Education Problems With Research Design: A Panel Discussion. <i>Academic Emergency Medicine</i> , 2012, 19, 1344-1349.	0.8	11
98	The Effect of Bench Model Fidelity on Fluoroscopy-Guided Transforaminal Epidural Injection Training. <i>Regional Anesthesia and Pain Medicine</i> , 2013, 38, 155-160.	1.1	11
99	Development of RAD-Score: A Tool to Assess the Procedural Competence of Diagnostic Radiology Residents. <i>American Journal of Roentgenology</i> , 2017, 208, 820-826.	1.0	11
100	Is the Accreditation Council for Graduate Medical Education a Suitable Proxy for Resident Unions?. <i>Academic Medicine</i> , 2009, 84, 296-300.	0.8	9
101	The feasibility of e-learning as a quality improvement tool. <i>Journal of Evaluation in Clinical Practice</i> , 2014, 20, 606-610.	0.9	9
102	Correlations between Accreditation Council for Graduate Medical Education Obstetrics and Gynecology Milestones and American Board of Obstetrics and Gynecology qualifying examination scores: an initial validity study. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 224, 308.e1-308.e25.	0.7	9
103	Predicting the Technical Competence of Surgical Residents. <i>Clinical Orthopaedics and Related Research</i> , 2006, 449, 62-66.	0.7	8
104	A centralized practice-based learning and improvement curriculum for residents and fellows: a collaboration of health sciences librarians and graduate medical education administration. <i>Journal of the Medical Library Association: JMLA</i> , 2010, 98, 175-178.	0.6	8
105	Examining the educational value of a CanMEDS roles framework in pediatric morbidity and mortality rounds. <i>BMC Medical Education</i> , 2014, 14, 262.	1.0	8
106	Boyer and Beyond. <i>Academic Medicine</i> , 2019, 94, 893-901.	0.8	8
107	14 Years Later. <i>Academic Medicine</i> , 2020, 95, 629-636.	0.8	8
108	What can regulatory bodies do to help implement competency-based medical education?. <i>Medical Teacher</i> , 2020, 42, 1369-1373.	1.0	8

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109	Exploring the Association Between USMLE Scores and ACGME Milestone Ratings: A Validity Study Using National Data From Emergency Medicine. <i>Academic Medicine</i> , 2021, 96, 1324-1331.	0.8	8
110	Orientation discrimination in cyclopean vision. <i>Vision Research</i> , 1995, 35, 365-374.	0.7	7
111	Surgical exploration and discovery program: Inaugural involvement of otolaryngology " head and neck surgery. <i>Journal of Otolaryngology - Head and Neck Surgery</i> , 2015, 44, 3.	0.9	7
112	Longitudinal Reliability of Milestones-Based Learning Trajectories in Family Medicine Residents. <i>JAMA Network Open</i> , 2021, 4, e2137179.	2.8	7
113	Frameworks for Integrating Learning Analytics With the Electronic Health Record. <i>Journal of Continuing Education in the Health Professions</i> , 2023, 43, 52-59.	0.4	7
114	THE EFFECT OF BENCH MODEL FIDELITY ON ENDOUROLOGICAL SKILLS:. <i>Journal of Urology</i> , 2002, , 1243-1247.	0.2	6
115	The joint contributions of saccades and ocular drift to repeated ocular fixations. <i>Vision Research</i> , 2001, 41, 1709-1721.	0.7	5
116	Too much small talk? Medical students's™ pelvic examination skills falter with pleasant patients. <i>Medical Education</i> , 2013, 47, 1209-1214.	1.1	5
117	Comprehensive Assessment of Critical Care Needs in a Community Hospital*. <i>Critical Care Medicine</i> , 2014, 42, 831-840.	0.4	5
118	Stages of Milestones Implementation: A Template Analysis of 16 Programs Across 4 Specialties. <i>Journal of Graduate Medical Education</i> , 2021, 13, 14-44.	0.6	5
119	Visual Factors in the Avoidance of Front-To-Rear-End Highway Collisions. <i>Proceedings of the Human Factors Society Annual Meeting</i> , 1992, 36, 1006-1010.	0.1	4
120	Using OSCEs to teach WHO patient safety solutions. <i>Medical Education</i> , 2008, 42, 523-524.	1.1	4
121	An Assessment Tool for Aseptic Technique in Resident Physicians: A Journey Towards Validation in the Real World of Limited Supervision. <i>Journal of Graduate Medical Education</i> , 2010, 2, 85-89.	0.6	4
122	Harvesting the "SEAD": Long-Term Follow-Up of the Surgical Exploration and Discovery Program. <i>Journal of Surgical Education</i> , 2020, 77, 96-103.	1.2	4
123	The sensemaking narratives of scientists working in health professions education scholarship units: The Canadian experience. <i>Perspectives on Medical Education</i> , 2020, 9, 157-165.	1.8	4
124	Assessing the Transition of Training in Health Systems Science From Undergraduate to Graduate Medical Education. <i>Journal of Graduate Medical Education</i> , 2021, 13, 404-410.	0.6	4
125	Using Learning Analytics to Examine Achievement of Graduation Targets for Systems-Based Practice and Practice-Based Learning and Improvement: A National Cohort of Vascular Surgery Fellows. <i>Annals of Vascular Surgery</i> , 2021, 76, 463-471.	0.4	3
126	An Empirical Investigation Into Milestones Factor Structure Using National Data Derived From Clinical Competency Committees. <i>Academic Medicine</i> , 2022, 97, 569-576.	0.8	3

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127	Clinicians's perspectives on quality: do they match accreditation standards?. Human Resources for Health, 2021, 19, 75.	1.1	3
128	Residents's Voices Must Be Heard. Academic Medicine, 2009, 84, 1469-1470.	0.8	1
129	Efficacious Versus Effective. Simulation in Healthcare, 2013, 8, 191-192.	0.7	1
130	Using Gamification to Understand Accreditation in Postgraduate Medical Education. Journal of Graduate Medical Education, 2019, 11, 207-210.	0.6	1
131	Ready, set, go! Evaluating readiness to implement competency-based medical education. Medical Teacher, 2022, 44, 886-892.	1.0	1
132	Enhancement of surgical tissue in visual noise. , 2004, 5370, 1890.		0
133	Skill transfer from colonoscopy simulator to real patients: results of a randomized controlled trial. Journal of the American College of Surgeons, 2005, 201, S78.	0.2	0
134	Non-technical skills: Repeated exposure to simulation. Canadian Journal of Anaesthesia, 2005, 52, A133-A133.	0.7	0
135	Patient simulation: An adjunct to the oral examination. Canadian Journal of Anaesthesia, 2005, 52, A136-A136.	0.7	0
136	In Reply to Rubio et al. Academic Medicine, 2014, 89, 1317.	0.8	0
137	Novel Video-Based Assessment Tool for Laparoscopic Intraoperative Decision-Making. Journal of the American College of Surgeons, 2014, 219, S119-S120.	0.2	0
138	Fellowship Directors's Program: Higher Ground's Helping Our HPM Fellowships Continue to Grow and Thrive in an Era of Rapid Change (P04). Journal of Pain and Symptom Management, 2016, 51, 308.	0.6	0