

Adam Dubrowski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3388722/publications.pdf>

Version: 2024-02-01

134
papers

3,966
citations

126907

33
h-index

138484

58
g-index

137
all docs

137
docs citations

137
times ranked

3494
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracting material parameters of silicone elastomers under biaxial tensile tests using virtual fields method and investigating the effect of missing deformation data close to specimen edges on parameter identification. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6421-6435.	2.6	4
2	Digital Interventions to Reduce Distress Among Health Care Providers at the Frontline: Protocol for a Feasibility Trial. <i>JMIR Research Protocols</i> , 2022, 11, e32240.	1.0	8
3	Topology Optimization of Lightweight Structures With Application to Bone Scaffolds and 3D Printed Shoes for Diabetics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	2.2	5
4	<scp>PIMesh</scp> : An automatic point cloud and unstructured mesh generation algorithm for meshless methods and finite element analysis with applications in surgical simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, , e3615.	2.1	0
5	Adapting the Gamified Educational Networking (GEN) Learning Management System to Deliver a Virtual Simulation Training Module to Determine the Enhancement of Learning and Performance Outcomes. <i>Cureus</i> , 2022, , .	0.5	2
6	Development of a novel 3D-printed multifunctional thorax model simulator for the simulation-based training of tube thoracostomy. <i>Canadian Journal of Emergency Medicine</i> , 2021, 23, 547-550.	1.1	1
7	A Model for an Online Learning Management System for Simulation-Based Acquisition of Psychomotor Skills in Health Professions Education. <i>Cureus</i> , 2021, 13, e14055.	0.5	11
8	A Semi-Automatic Method to Create an Affordable Three-Dimensional Printed Splint Using Open-Source and Free Software. <i>Cureus</i> , 2021, 13, e13934.	0.5	3
9	Work-in-Progress: A Novel Data Glove for Psychomotor-Based Virtual Medical Training. , 2021, , .		3
10	Rural family physician perspectives on communication with urban specialists: a qualitative study. <i>BMJ Open</i> , 2021, 11, e043470.	1.9	17
11	Designing and Conducting Healthcare Simulations: Contributions From Social Work. <i>Cureus</i> , 2021, 13, e16193.	0.5	1
12	A Scenario Editor to Create and Modify Virtual Simulations and Serious Games for Mental Health Education. , 2021, , .		4
13	Development, manufacture and initial assessment of validity of a 3-dimensional-printed bowel anastomosis simulation training model. <i>Canadian Journal of Surgery</i> , 2021, 64, E484-E490.	1.2	9
14	A Gamified Educational Network for Collaborative Learning. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 266-275.	0.6	4
15	Preliminary Design and Development of a Mechanical Ventilator Using Industrial Automation Components for Rapid Deployment During the COVID-19 Pandemic. <i>Cureus</i> , 2021, 13, e20386.	0.5	2
16	Development and Learner-Based Assessment of a Novel, Customized, 3D Printed Small Bowel Simulator for Hand-Sewn Anastomosis Training. <i>Cureus</i> , 2021, 13, e20536.	0.5	3
17	The Anesthesia Crisis Scenario Builder for Authoring Anesthesia Crisis-Based Simulations. <i>IEEE Transactions on Games</i> , 2020, 12, 361-366.	1.4	8
18	Repercussions of the COVID-19 pandemic on the well-being and training of medical clerks: a pan-Canadian survey. <i>BMC Medical Education</i> , 2020, 20, 385.	2.4	22

#	ARTICLE	IF	CITATIONS
19	MP28: Development and validation of a novel three-dimensional printed thorax model simulator for the simulation-based training of tube thoracostomy. Canadian Journal of Emergency Medicine, 2020, 22, S52-S52.	1.1	0
20	Comparing the effectiveness of simulation as adjuncts to standardized lectures, on the identification and reporting of intimidation during surgical clerkship: A mixed method randomized controlled trial. American Journal of Surgery, 2020, 220, 597-603.	1.8	1
21	An Educational Network for Surgical Education Supported by Gamification Elements: Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 2020, 9, e21273.	1.0	5
22	Evaluation of a Mobile Telesimulation Unit to Train Rural and Remote Practitioners on High-Acuity Low-Occurrence Procedures: Pilot Randomized Controlled Trial. Journal of Medical Internet Research, 2019, 21, e14587.	4.3	29
23	Remote Mentoring of Point-of-Care Ultrasound Skills to Inexperienced Operators Using Multiple Telemedicine Platforms: Is a Cell Phone Good Enough?. Journal of Ultrasound in Medicine, 2018, 37, 2517-2525.	1.7	24
24	Using a Social Educational Network to Facilitate Peer-Feedback for a Virtual Simulation. Computers in Entertainment, 2018, 16, 1-15.	1.1	3
25	Development of a Mobile Tele-Simulation Unit Prototype for Training of Rural and Remote Emergency Health Care Providers. , 2018, , .		1
26	The effects of stereoscopic 3D on knowledge retention within a serious gaming environment. Multimedia Tools and Applications, 2017, 76, 7301-7319.	3.9	7
27	P100: Iterative prototype development of a mobile tele-simulation unit for remote training: an update. Canadian Journal of Emergency Medicine, 2017, 19, S112.	1.1	3
28	P098: Development and evaluation of a mobile simulation lab with acute care telemedicine support. Canadian Journal of Emergency Medicine, 2016, 18, S111-S111.	1.1	2
29	Thrive or overload? The effect of task complexity on novices'™ simulation-based learning. Medical Education, 2016, 50, 955-968.	2.1	70
30	City mouse, country mouse: a mixed-methods evaluation of perceived communication barriers between rural family physicians and urban consultants in Newfoundland and Labrador, Canada. BMJ Open, 2016, 6, e010153.	1.9	14
31	Preparation With Web-Based Observational Practice Improves Efficiency of Simulation-Based Mastery Learning. Simulation in Healthcare, 2016, 11, 316-322.	1.2	20
32	Measuring cognitive load: performance, mental effort and simulation task complexity. Medical Education, 2015, 49, 815-827.	2.1	81
33	Measuring cognitive load during simulation-based psychomotor skills training: sensitivity of secondary-task performance and subjective ratings. Advances in Health Sciences Education, 2015, 20, 1237-1253.	3.3	34
34	Effects of sound on visual realism perception and task performance. Visual Computer, 2015, 31, 1207-1216.	3.5	11
35	Sensibility of a new instrument to assess clinical reasoning in post-graduate orthopaedic manual physical therapy education. Manual Therapy, 2015, 20, 303-312.	1.6	9
36	Compliance Does Not Mean Quality. American Journal of Medical Quality, 2015, 30, 191-191.	0.5	3

#	ARTICLE	IF	CITATIONS
37	Establishing assessment criteria for clinical reasoning in orthopedic manual physical therapy: a consensus-building study. <i>Journal of Manual and Manipulative Therapy</i> , 2015, 23, 27-36.	1.2	13
38	Part versus whole: a randomized trial of central venous catheterization education. <i>Advances in Health Sciences Education</i> , 2015, 20, 1061-1071.	3.3	10
39	A model of cardiopulmonary bypass staged training integrating technical and non-technical skills dedicated to cardiac trainees. <i>Perfusion (United Kingdom)</i> , 2015, 30, 132-139.	1.0	10
40	Operationalising elaboration theory for simulation instruction design: a Delphi study. <i>Medical Education</i> , 2015, 49, 576-588.	2.1	19
41	Simulation as a suitable education approach for medical training in marine and off-shore industries: theoretical underpinning. <i>International Maritime Health</i> , 2015, 66, 164-167.	0.7	4
42	Procedural skills in paediatric residency: Re-evaluating the competencies. <i>Paediatrics and Child Health</i> , 2014, 19, 180-184.	0.6	8
43	From Bricks to Buildings. <i>Simulation in Healthcare</i> , 2014, 9, 249-259.	1.2	30
44	Comparing the cost-effectiveness of simulation modalities: a case study of peripheral intravenous catheterization training. <i>Advances in Health Sciences Education</i> , 2014, 19, 219-232.	3.3	58
45	Board #129 - Research Abstract Identifying Conditions Affecting Complexity of Lumbar Puncture to Guide Simulation Instructional Design for Novice Learners (Submission #8730). <i>Simulation in Healthcare</i> , 2014, 9, 414.	1.2	0
46	What skills should simulation training in arthroscopy teach residents? A focus on resident input. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013, 8, 945-953.	2.8	29
47	Gaze-down endoscopic practise leads to better novice performance on gaze-up displays. <i>Medical Education</i> , 2013, 47, 166-172.	2.1	7
48	Spatial sound and its effect on visual quality perception and task performance within a virtual environment. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	3
49	Board 166 - Program Innovations Abstract A Utilization Focused Evaluation of Simulation within the Emergency Triage Assessment and Treatment (ETAT) Program in Malawi (Submission #969). <i>Simulation in Healthcare</i> , 2013, 8, 441.	1.2	0
50	Needs assessment for simulation training in neuroendoscopy: a Canadian national survey. <i>Journal of Neurosurgery</i> , 2013, 118, 250-257.	1.6	38
51	The Effect of Sound on Visual Fidelity Perception in Stereoscopic 3-D. <i>IEEE Transactions on Cybernetics</i> , 2013, 43, 1572-1583.	9.5	11
52	Simulation-augmented education in the rehabilitation professions: A scoping review. <i>International Journal of Therapy and Rehabilitation</i> , 2013, 20, 228-236.	0.3	15
53	Board 343 - Research Abstract Development and Evaluation of a Contextually Relevant Measure of Cognitive Load for Simulation-Based Psychomotor Skills Training (Submission #951). <i>Simulation in Healthcare</i> , 2013, 8, 540-541.	1.2	0
54	Self-directed practice schedule enhances learning of suturing skills. <i>Canadian Journal of Surgery</i> , 2013, 56, E142-E147.	1.2	17

#	ARTICLE	IF	CITATIONS
55	High, low and mixed fidelity simulation for continuous curvilinear capsulorhexis in cataract surgery. <i>Journal of Contemporary Medical Education</i> , 2013, 1, 9.	0.2	2
56	Evaluating the Influence of Goal Setting on Intravenous Catheterization Skill Acquisition and Transfer in a Hybrid Simulation Training Context. <i>Simulation in Healthcare</i> , 2012, 7, 236-242.	1.2	8
57	Trainees'™ Perceptions of Practitioner Competence During Patient Transfer. <i>Teaching and Learning in Medicine</i> , 2012, 24, 111-116.	2.1	2
58	Do not teach me while I am working!. <i>American Journal of Surgery</i> , 2012, 203, 253-257.	1.8	23
59	The role of collaborative interactivity in the observational practice of clinical skills. <i>Medical Education</i> , 2012, 46, 409-416.	2.1	36
60	The application of the challenge point framework in medical education. <i>Medical Education</i> , 2012, 46, 447-453.	2.1	75
61	Psychometric Properties of a New Tool to Assess Task-Specific and Global Competency in Cataract Surgery. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2012, 43, 229-234.	0.7	3
62	Serious Games and Virtual Simulations Debriefing Using a Social Networking Tool. , 2012, , .		2
63	A framework-based approach to designing simulation-augmented surgical education and training programs. <i>American Journal of Surgery</i> , 2011, 202, 344-351.	1.8	34
64	Procedural Training in Pediatric Residency" Reevaluating the Competencies. <i>Paediatrics and Child Health</i> , 2011, , .	0.6	0
65	The Postoperative Pain Assessment Skills Pilot Trial. <i>Pain Research and Management</i> , 2011, 16, 433-439.	1.8	16
66	Evaluating Pain Education Programs: An Integrated Approach. <i>Pain Research and Management</i> , 2011, 16, 407-410.	1.8	18
67	Innovation and Design of a Web-Based Pain Education Interprofessional Resource. <i>Pain Research and Management</i> , 2011, 16, 427-432.	1.8	22
68	Learning in the Simulated Setting: A Comparison of Expert-, Peer-, and Computer-Assisted Learning. <i>Academic Medicine</i> , 2011, 86, S12-S16.	1.6	43
69	A New Concept of Unsupervised Learning: Directed Self-Guided Learning in the Health Professions. <i>Academic Medicine</i> , 2010, 85, S49-S55.	1.6	112
70	Coordinating Progressive Levels of Simulation Fidelity to Maximize Educational Benefit. <i>Academic Medicine</i> , 2010, 85, 806-812.	1.6	148
71	Mental rotation: Cross-task training and generalization.. <i>Journal of Experimental Psychology: Applied</i> , 2010, 16, 349-360.	1.2	40
72	The Use of Auditory Cues in Anticipatory Control of Grasping Forces. <i>Motor Control</i> , 2010, 14, 255-264.	0.6	3

#	ARTICLE	IF	CITATIONS
73	Temperature influences both haptic perception and force production when grasping. <i>International Journal of Industrial Ergonomics</i> , 2010, 40, 55-58.	2.6	12
74	Medical education research: the importance of research design and a programmatic approach. <i>Medical Education</i> , 2010, 44, 1161-1163.	2.1	2
75	Comparing self-guided learning and educator-guided learning formats for simulation-based clinical training. <i>Journal of Advanced Nursing</i> , 2010, 66, 1832-1844.	3.3	59
76	Pediatric Urology Training: Performance-Based Assessment Using the Fundamentals of Laparoscopic Surgery. <i>Journal of Surgical Research</i> , 2010, 161, 240-245.	1.6	13
77	Motor adaptation and manual transfer: Insight into the persistent nature of sensorimotor representations. <i>Brain and Cognition</i> , 2010, 72, 385-393.	1.8	20
78	Simulation in laparoscopic surgery: a concurrent validity study for FLS. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2009, 23, 161-165.	2.4	32
79	Assessing suturing skills in a self-guided learning setting: absolute symmetry error. <i>Advances in Health Sciences Education</i> , 2009, 14, 685-695.	3.3	10
80	Collision error avoidance: influence of proportion congruency and sensorimotor memory on open-loop grasp control. <i>Experimental Brain Research</i> , 2009, 198, 445-453.	1.5	1
81	How effective is self-guided learning of clinical technical skills? It's all about process. <i>Medical Education</i> , 2009, 43, 507-515.	2.1	103
82	Addressing the severe shortage of health care providers in Ethiopia: bench model teaching of technical skills. <i>Medical Education</i> , 2009, 43, 621-627.	2.1	21
83	Technique Acquisition in the Use of Two Thermoplasticized Root Filling Methods by Inexperienced Dental Students: A Microcomputed Tomography Analysis. <i>Journal of Endodontics</i> , 2009, 35, 1512-1517.	3.1	32
84	Outcome errors are not necessary for learning orthopedic bone drilling. <i>Canadian Journal of Surgery</i> , 2009, 52, 98-102.	1.2	6
85	Increased brain cortical activity during parabolic flights has no influence on a motor tracking task. <i>Experimental Brain Research</i> , 2008, 185, 571-579.	1.5	26
86	What skills should simulation training in arthroscopy teach residents?. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2008, 3, 433-437.	2.8	23
87	Developing Criteria for Proficiency-Based Training of Surgical Technical Skills Using Simulation: Changes in Performances as a Function of Training Year. <i>Journal of the American College of Surgeons</i> , 2008, 206, 205-211.	0.5	40
88	Comparison of expert instruction and computer-based video training in teaching fundamental surgical skills to medical students. <i>Surgery</i> , 2008, 143, 539-544.	1.9	104
89	Examination stress leads to improvements on fundamental technical skills for surgery. <i>American Journal of Surgery</i> , 2008, 196, 114-119.	1.8	52
90	What happens to the brain in weightlessness? A first approach by EEG tomography. <i>NeuroImage</i> , 2008, 42, 1316-1323.	4.2	78

#	ARTICLE	IF	CITATIONS
91	Construct Validation of a Low-fidelity Endoscopic Sinus Surgery Simulator. American Journal of Rhinology & Allergy, 2008, 22, 642-648.	2.2	33
92	Drilling sounds are used by surgeons and intermediate residents, but not novice orthopedic trainees, to guide drilling motions. Canadian Journal of Surgery, 2008, 51, 442-6.	1.2	16
93	Trocar insertion: the neglected task of VR simulation. Studies in Health Technology and Informatics, 2008, 132, 50-2.	0.3	1
94	Effects of expertise, practice and contextual interference on adaptations to visuo-motor misalignment. Studies in Health Technology and Informatics, 2008, 132, 225-9.	0.3	5
95	Application of Motor Learning Principles to Complex Surgical Tasks: Searching for the Optimal Practice Schedule. Journal of Motor Behavior, 2007, 39, 40-48.	0.9	65
96	Objective Assessment of Temporal Bone Drilling Skills. Annals of Otology, Rhinology and Laryngology, 2007, 116, 793-798.	1.1	56
97	Drilling Simulated Temporal Bones with Left-Handed Tools: A Left-Hander's Right?. Annals of Otology, Rhinology and Laryngology, 2007, 116, 819-826.	1.1	11
98	Training and Evaluating Spinal Surgeons. Spine, 2007, 32, 2921-2925.	2.0	13
99	Visual Field Magnification and Touch Perception When Exploring Surfaces With the Index Finger and a Rigid Instrument. Human Factors, 2007, 49, 679-687.	3.5	1
100	Verbal feedback from an expert is more effective than self-accessed feedback about motion efficiency in learning new surgical skills. American Journal of Surgery, 2007, 193, 105-110.	1.8	206
101	A comparison of single- and multiple-stage approaches to teaching laparoscopic suturing. American Journal of Surgery, 2007, 193, 269-273.	1.8	33
102	Construct validity of computer-assisted assessment: quantification of movement processes during a vascular anastomosis on a live porcine model. American Journal of Surgery, 2007, 193, 523-529.	1.8	24
103	Surgical skill acquisition with self-directed practice using computer-based video training. American Journal of Surgery, 2007, 193, 237-242.	1.8	117
104	Laboratory-based vascular anastomosis training: A randomized controlled trial evaluating the effects of bench model fidelity and level of training on skill acquisition. Journal of Vascular Surgery, 2007, 45, 343-349.	1.1	161
105	Control of laparoscopic instrument motion in an inanimate bench model: Implications for the training and the evaluation of technical skills. Applied Ergonomics, 2007, 38, 123-132.	3.1	5
106	Using a Virtual Reality Temporal Bone Simulator to Assess Otolaryngology Trainees. Laryngoscope, 2007, 117, 258-263.	2.0	109
107	A MODULAR APPROACH FOR TRAINING UROLOGISTS IN LAPAROSCOPY. BJU International, 2007, 100, 1216-1218.	2.5	12
108	Tensiometry as a Measure of Improvement in Knot Quality in Undergraduate Medical Students. Advances in Health Sciences Education, 2007, 12, 331-344.	3.3	10

#	ARTICLE	IF	CITATIONS
109	Parabolic flight experience is related to increased release of stress hormones. <i>European Journal of Applied Physiology</i> , 2007, 100, 301-308.	2.5	44
110	Stress hormone stability: Processing of blood samples collected during parabolic flight. <i>Clinical Biochemistry</i> , 2007, 40, 1332-1335.	1.9	11
111	Computer-assisted assessment of one-handed knot tying skills performed within various contexts: a construct validity study. <i>American Journal of Surgery</i> , 2006, 192, 109-113.	1.8	38
112	Teaching Surgical Skills: What Kind of Practice Makes Perfect?. <i>Annals of Surgery</i> , 2006, 244, 400-409.	4.2	546
113	Randomised, controlled study investigating the optimal instructor: student ratios for teaching suturing skills. <i>Medical Education</i> , 2006, 40, 59-63.	2.1	78
114	Quantification of process measures in laparoscopic suturing. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2006, 20, 1862-1866.	2.4	8
115	Performance of Resuscitation Skills by Paramedic Personnel in Chemical Protective Suits. <i>Prehospital Emergency Care</i> , 2006, 10, 254-259.	1.8	17
116	Structural flexibility of laparoscopic instruments: implication for the design of virtual reality simulators. <i>Studies in Health Technology and Informatics</i> , 2006, 119, 503-5.	0.3	0
117	Unilateral basal ganglia damage causes contralesional force control deficits: A case study. <i>Neuropsychologia</i> , 2005, 43, 1379-1384.	1.6	7
118	Performance vs. learning curves: what is motor learning and how is it measured?. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2005, 19, 1290-1290.	2.4	28
119	Computer-based Video Instructions for Acquisition of Technical Skills. <i>Journal of Visual Communication in Medicine</i> , 2005, 28, 150-155.	0.6	27
120	Effective Training and Assessment of Surgical Skills, and the Correlates of Performance. <i>Surgical Innovation</i> , 2005, 12, 71-77.	0.9	39
121	Surface exploration using laparoscopic surgical instruments: The perception of surface roughness. <i>Ergonomics</i> , 2005, 48, 874-894.	2.1	19
122	The influence of practice schedules in the learning of a complex bone-plating surgical task. <i>American Journal of Surgery</i> , 2005, 190, 359-363.	1.8	37
123	Quantification of motion characteristics and forces applied to tissues during suturing. <i>American Journal of Surgery</i> , 2005, 190, 131-136.	1.8	43
124	Structural flexibility of laparoscopic instruments: implication for the design of virtual reality simulators. <i>Studies in Health Technology and Informatics</i> , 2005, 111, 201-3.	0.3	0
125	Practice Effects on the Use of Visual and Haptic Cues During Grasping. <i>Journal of Motor Behavior</i> , 2004, 36, 327-338.	0.9	8
126	Grip force when grasping moving cylinders. <i>International Journal of Industrial Ergonomics</i> , 2004, 34, 69-76.	2.6	8

#	ARTICLE	IF	CITATIONS
127	THE CONTRIBUTIONS OF KINESIOLOGY TO SURGICAL EDUCATION. Journal of Bone and Joint Surgery - Series A, 2004, 86, 2778-2781.	3.0	30
128	Actionâ€“perception dissociation in response to target acceleration. Vision Research, 2002, 42, 1465-1473.	1.4	20
129	The coordination of hand transport and grasp formation during single- and double-perturbed human prehension movements. Experimental Brain Research, 2002, 145, 365-371.	1.5	28
130	Control Strategies When Intercepting Slowly Moving Targets. Journal of Motor Behavior, 2001, 33, 37-48.	0.9	6
131	The effects of latex gloves on the kinetics of grasping. International Journal of Industrial Ergonomics, 2001, 28, 265-273.	2.6	45
132	Target velocity effects on manual interception kinematics. Acta Psychologica, 2000, 104, 103-118.	1.5	18
133	The effect of illusory size on force production when grasping objects. Experimental Brain Research, 2000, 135, 535-543.	1.5	66
134	<i>To sim or not to sim</i>â€“choosing wisely for procedural skills training in paediatrics. Paediatrics and Child Health, 0, , .	0.6	0