

Geb W Thomas

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

987
citations

687363

13
h-index

454955

30
g-index

45
all docs

45
docs citations

45
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Inter-comparison of low-cost sensors for measuring the mass concentration of occupational aerosols. <i>Aerosol Science and Technology</i> , 2016, 50, 462-473.	3.1	146
2	Estimating Time Physicians and Other Health Care Workers Spend with Patients in an Intensive Care Unit Using a Sensor Network. <i>American Journal of Medicine</i> , 2018, 131, 972.e9-972.e15.	1.5	120
3	Using Sensor Networks to Study the Effect of Peripatetic Healthcare Workers on the Spread of Hospital-Associated Infections. <i>Journal of Infectious Diseases</i> , 2012, 206, 1549-1557.	4.0	102
4	Surgical Coaching from Head-Mounted Video in the Training of Fluoroscopically Guided Articular Fracture Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 1031-1039.	3.0	67
5	Objective Structured Assessments of Technical Skills (OSATS) Does Not Assess the Quality of the Surgical Result Effectively. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 874-881.	1.5	66
6	The design and testing of a force feedback dental simulator. <i>Computer Methods and Programs in Biomedicine</i> , 2001, 64, 53-64.	4.7	63
7	Evaluation of low-cost electro-chemical sensors for environmental monitoring of ozone, nitrogen dioxide, and carbon monoxide. <i>Journal of Occupational and Environmental Hygiene</i> , 2018, 15, 87-98.	1.0	54
8	Monitoring Hand Hygiene via Human Observers: How Should We Be Sampling?. <i>Infection Control and Hospital Epidemiology</i> , 2012, 33, 689-695.	1.8	45
9	Life in the Atacama: Searching for life with rovers (science overview). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	42
10	Low-Cost, Distributed Environmental Monitors for Factory Worker Health. <i>Sensors</i> , 2018, 18, 1411.	3.8	41
11	Virtual Tools for Supervisory and Collaborative Control of Robots. <i>Presence: Teleoperators and Virtual Environments</i> , 1997, 6, 1-28.	0.6	20
12	Mapping Occupational Hazards with a Multi-sensor Network in a Heavy-Vehicle Manufacturing Facility. <i>Annals of Work Exposures and Health</i> , 2019, 63, 280-293.	1.4	20
13	Sensor Selection to Improve Estimates of Particulate Matter Concentration from a Low-Cost Network. <i>Sensors</i> , 2018, 18, 3008.	3.8	18
14	Estimating personal exposures from a multi-hazard sensor network. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 1013-1022.	3.9	17
15	An inexpensive sensor for noise. <i>Journal of Occupational and Environmental Hygiene</i> , 2018, 15, 448-454.	1.0	16
16	Sources of error and variability in particulate matter sensor network measurements. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 564-574.	1.0	14
17	Advancing Simulation-Based Orthopaedic Surgical Skills Training: An Analysis of the Challenges to Implementation. <i>Advances in Orthopedics</i> , 2019, 2019, 1-7.	1.0	14
18	The Validity and Reliability of a Hybrid Reality Simulator for Wire Navigation in Orthopedic Surgery. <i>IEEE Transactions on Human-Machine Systems</i> , 2015, 45, 119-125.	3.5	13

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19	Developing an objective assessment of surgical performance from operating room video and surgical imagery. IISE Transactions on Healthcare Systems Engineering, 2018, 8, 110-116.	1.7	12
20	Efficacy of Paired Electrochemical Sensors for Measuring Ozone Concentrations. Journal of Occupational and Environmental Hygiene, 2019, 16, 179-190.	1.0	12
21	Assessing Wire Navigation Performance in the Operating Room. Journal of Surgical Education, 2016, 73, 780-787.	2.5	11
22	Surface Textures Improve the Robustness of Stereoscopic Depth Cues. Human Factors, 2002, 44, 157-170.	3.5	10
23	Application of surgical skill simulation training and assessment in orthopaedic trauma. Iowa orthopaedic journal, The, 2012, 32, 76-82.	0.5	10
24	Optimizing Information Value: Improving Rover Sensor Data Collection. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 593-604.	2.9	8
25	Do Skills Acquired from Training with a Wire Navigation Simulator Transfer to a Mock Operating Room Environment?. Clinical Orthopaedics and Related Research, 2019, 477, 2189-2198.	1.5	8
26	Value Added: the Case for Point-of-View Camera use in Orthopedic Surgical Education. Iowa orthopaedic journal, The, 2016, 36, 7-12.	0.5	8
27	Designing an Affordable Wire Navigation Surgical Simulator ¹ . Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	5
28	Development of a Portable Aerosol Collector and Spectrometer (PACS). Aerosol Science and Technology, 2018, 52, 1351-1369.	3.1	4
29	Surgical Skill Can be Objectively Measured From Fluoroscopic Images Using a Novel Image-based Decision Error Analysis (IDEA) Score. Clinical Orthopaedics and Related Research, 2021, 479, 1386-1394.	1.5	4
30	An Extensible Orthopedic Wire Navigation Simulation Platform. Journal of Medical Devices, Transactions of the ASME, 2019, 13, 031001-310017.	0.7	3
31	The effect of pointing on spatial working memory in a 3D virtual environment. Applied Cognitive Psychology, 2018, 32, 383-389.	1.6	2
32	Combining physics-based and Kriging models to improve the estimation of noise exposure. Journal of Occupational and Environmental Hygiene, 2022, 19, 343-352.	1.0	2
33	What's so Hard About Bronchoscopic Surgery?. Proceedings of the Human Factors and Ergonomics Society, 1999, 43, 845-849.	0.3	1
34	Displaying Small Surface Features with a Force Feedback Device in a Dental Training Simulator. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 2235-2239.	0.3	1
35	Categorizing Adverse Medical Device and Medication Event Frequency. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1009-1013.	0.3	1
36	The scoring procedure for a competitive research competition influences the usefulness of the results in real-world applications. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
37	Mechanical properties of the haptic signals indicative of a breast cancer tumor. , 2007, , .		1
38	How lapse and slip errors influence head-of-bed angle compliance rates as measured by a portable, wireless data collection system. IIE Transactions on Healthcare Systems Engineering, 2015, 5, 1-13.	0.8	1
39	How bedside feedback improves head-of-bed angle compliance for intubated patients. IISE Transactions on Healthcare Systems Engineering, 2017, 7, 73-80.	1.7	1
40	Design of a Percutaneous Articular Fracture Reduction Simulator. , 2018, 2018, .		1
41	A Vision for Using Simulation & Virtual Coaching to Improve the Community Practice of Orthopedic Trauma Surgery. Iowa orthopaedic journal, The, 2020, 40, 25-34.	0.5	1
42	Minimally trained analysts can perform fast, objective assessment of orthopedic technical skill from fluoroscopic images. IISE Transactions on Healthcare Systems Engineering, 2022, 12, 212-220.	1.7	1
43	The Identification of the Critical Haptic Stimulus Features in a Clinical Dental Task. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 2137-2141.	0.3	0
44	Developing a Wire Navigation Simulator for Pedicle Screw Placement in Minimally Invasive Transforaminal Lumbar Interbody Fusion. , 2021, , .		0