Armin Schneider

List of Publications by Year
in descending order

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Version: 2024-02-01

102	2,424	218592	243529
papers	citations	26 h-index	44 g-index

116	116	116	2298
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison between breast volume measurement using 3D surface imaging and classical techniques. Breast, 2007, 16, 137-145.	0.9	244
2	An innovative, safe and sterile sigmoid access (ISSA) for NOTES. Endoscopy, 2007, 39, 401-406.	1.0	141
3	Enabling Real-Time Context-Aware Collaboration through 5G and Mobile Edge Computing. , 2015, , .		118
4	New Aspects of Breast Volume Measurement Using 3-Dimensional Surface Imaging. Annals of Plastic Surgery, 2006, 57, 602-610.	0.5	115
5	Combined laparoscopicâ€“endoscopic resections of colorectal polyps: 10-year experience and follow-up. Surgical Endoscopy and Other Interventional Techniques, 2009, 23, 688-693.	1.3	109
6	Simultaneous Use of Laparoscopy and Endoscopy for Minimally Invasive Resection of Gastric Subepithelial Masses â€" Analysis of 93 Interventions. World Journal of Surgery, 2008, 32, 1021-1028.	0.8	104
7	Electromagnetic Catheter Navigation During Bronchoscopy. Chest, 2005, 128, 382-387.	0.4	96
8	Impact of iterative reconstruction on CNR and SNR in dynamic myocardial perfusion imaging in an animal model. European Radiology, 2012, 22, 2654-2661.	2.3	67
9	Development, standardization, and evaluation of NOTES cholecystectomy using a transsigmoid approach in the porcine model: an acute feasibility study. Endoscopy, 2007, 39, 860-864.	1.0	56
10	Effect of pneumoperitoneum on hemodynamics and inspiratory pressures during natural orifice transluminal endoscopic surgery (NOTES): An experimental, controlled study in an acute porcine model. Endoscopy, 2007, 39, 854-861.	1.0	52
11	Comparison of transgastric access techniques for natural orifice transluminal endoscopic surgery. Gastrointestinal Endoscopy, 2008, 68, 940-947.	0.5	51
12	Three-dimensional navigated laparoscopic ultrasonography. Surgical Endoscopy and Other Interventional Techniques, 2001, 15, 1459-1462.	1.3	49
13	The â€ŒLITEâ€•model: construct validation of a new training system for natural orifice transluminal endoscopic surgery (NOTES). Endoscopy, 2009, 41, 395-399.	1.0	47
14	Real-time instrument detection in minimally invasive surgery using radiofrequency identification technology. Journal of Surgical Research, 2013, 185, 704-710.	0.8	47
15	Time-of-Flight 3-D Endoscopy. Lecture Notes in Computer Science, 2009, 12, 467-474.	1.0	45
16	Extended preoperative patient education using a multimedia DVDâ€"impact on patients receiving a laparoscopic cholecystectomy: a randomised controlled trial. Langenbeck's Archives of Surgery, 2009, 394, 227-233.	0.8	44
17	Toward increased autonomy in the surgical OR: needs, requests, and expectations. Surgical Endoscopy and Other Interventional Techniques, 2013, 27, 1681-1688.	1.3	44
18	Real-Time Monitoring for Detection of Retained Surgical Sponges and Team Motion in the Surgical Operation Room Using Radio-Frequency-Identification (RFID) Technology: A Preclinical Evaluation. Journal of Surgical Research, 2012, 175, 191-198.	0.8	41

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19	Random Forests for Phase Detection in Surgical Workflow Analysis. Lecture Notes in Computer Science, 2014, , 148-157.	1.0	36
20	Evaluation of dual-phase multi-detector-row CT for detection of intestinal bleeding using an experimental bowel model. European Radiology, 2009, 19, 875-881.	2.3	33
21	In-vivoreal-time tracking of surgical instruments in endoscopic video. Minimally Invasive Therapy and Allied Technologies, 2012, 21, 129-134.	0.6	33
22	New technologies for information retrieval to achieve situational awareness and higher patient safety in the surgical operating room: the MRI institutional approach and review of the literature. Surgical Endoscopy and Other Interventional Techniques, 2011, 25, 696-705.	1.3	32
23	Assessment of Gunshot Bullet Injuries with the Use of Magnetic Resonance Imaging. Journal of Trauma, 2000, 49, 704-709.	2.3	29
24	The mechatronic support system â€œHVSPSâ€•and the way to NOTES. Minimally Invasive Therapy and Allied Technologies, 2008, 17, 341-345.	0.6	29
25	Parsing human skeletons in an operating room. Machine Vision and Applications, 2016, 27, 1035-1046.	1.7	29
26	Detection of intestinal bleeding with multi-detector row CT in an experimental setup. How many acquisitions are necessary?. European Radiology, 2009, 19, 2862-2869.	2.3	27
27	Natural orifice transluminal endoscopic surgery: cardiopulmonary safety of transesophageal mediastinoscopy. Endoscopy, 2010, 42, 405-412.	1.0	27
28	Intraoperative augmented reality for minimally invasive liver interventions. , 2003, , .		26
29	Validation of a Low Dose Simulation Technique for Computed Tomography Images. PLoS ONE, 2014, 9, e107843.	1.1	25
30	Optimal fluorescein dose for intravenous application in miniprobeâ€based confocal laser scanning microscopy in pigs. Journal of Biophotonics, 2011, 4, 108-113.	1.1	23
31	Automation of a suturing device for minimally invasive surgery. Surgical Endoscopy and Other Interventional Techniques, 2011, 25, 2100-2104.	1.3	22
32	Carbon dioxide versus room air for natural orifice transluminal endoscopic surgery (NOTES) and comparison with standard laparoscopic pneumoperitoneum. Gastrointestinal Endoscopy, 2010, 72, 161-169.e2.	0.5	21
33	Applying the Software-to-Data Paradigm in Next Generation E-Health Hybrid Clouds. , 2013, , .		21
34	Diagnostic Procedures. , 2017, , 87-220.		20
35	Prediction of intraoperative complexity from preoperative patient data for laparoscopic cholecystectomy. Artificial Intelligence in Medicine, 2011, 52, 169-176.	3.8	18
36	Workflow analysis and surgical phase recognition in minimally invasive surgery. , 2012, , .		18

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37	Endoscopic Orientation Correction. Lecture Notes in Computer Science, 2009, 12, 459-466.	1.0	17
38	Design, development and evaluation of a highly versatile robot platform for minimally invasive single-port surgery. , 2012, , .		16
39	Reliability of sensor-based real-time workflow recognition in laparoscopic cholecystectomy. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 941-948.	1.7	16
40	Magneto-Optic Tracking of a Flexible Laparoscopic Ultrasound Transducer for Laparoscope Augmentation. , 2007, 10, 458-466.		15
41	Wireless live streaming video of surgical operations: an evaluation of communication quality. Journal of Telemedicine and Telecare, 2007, 13, 391-396.	1.4	14
42	Surgery 4.0. , 2017, , 91-107.		14
43	Evaluating the didactic value of 3D visualization in otosurgery. European Archives of Oto-Rhino-Laryngology, 2021, 278, 1027-1033.	0.8	14
44	Testing a proximity-based location tracking system with Bluetooth Low Energy tags for future use in the OR. , 2015, , .		13
45	Interactive and Multimodal-based Augmented Reality for Remote Assistance using a Digital Surgical Microscope. , 2019, , .		13
46	Submucosal endoscopy: a novel approach to en bloc endoscopic mucosal resection (with videos). Gastrointestinal Endoscopy, 2007, 66, 753-756.	0.5	12
47	Set of instruments for innovative, safe and sterile sigmoid access for natural-orifice transluminal endoscopic surgery / Ein Instrumentenset fÃ¼r den innovativen, sicheren und sterilen sigmoidalen Zugang fÃ¼r die transluminale endoskopische Chirurgie Ã¼ber natÃ¼rliche KÃ¶rperÃ¶ffnungen. Biomedizinische Technik, 2008, 53, 185-189.	0.9	12
48	Laparoscopic Cholecystectomy - a Standardized Routine Laparoscopic Procedure: Is it Possible to Predict the Duration of an Operation?. Journal of Healthcare Engineering, 2011, 2, 259-270.	1.1	10
49	Natural-orifice transluminal endoscopic surgery: low-pressure pneumoperitoneum is sufficient and is associated with an improved cardiopulmonary response (PressurePig Study). Endoscopy, 2011, 43, 808-815.	1.0	10
50	A new instrument for endoscopic submucosal dissection (with videos). Gastrointestinal Endoscopy, 2013, 77, 654-657.	0.5	10
51	Diagnosing acute liver graft rejection: experimental application of an implantable telemetric impedance device in native and transplanted porcine livers. Biosensors and Bioelectronics, 2001, 16, 169-177.	5.3	9
52	Feasibility of opto-electronic surgical instrument identification. Minimally Invasive Therapy and Allied Technologies, 2009, 18, 253-258.	0.6	9
53	Evaluation of mist production and tissue dissection efficiency using different types of ultrasound shears. Surgical Endoscopy and Other Interventional Techniques, 2009, 23, 2822-2826.	1.3	9
54	Forces in minimally invasive surgery: Reliable manipulation of gastric mucosa and the sigmoid colon. , 2014, , .		9

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55	Interactive live-stream surgery contributes to surgical education in the context of contact restrictions. European Archives of Oto-Rhino-Laryngology, 2022, 279, 2865-2871.	0.8	9
56	In vivo kinematic measurement during laparoscopic cholecystectomy. Surgical Endoscopy and Other Interventional Techniques, 2004, 18, 1649-1656.	1.3	8
57	Safe Sigmoid Access for Natural Orifice Transluminal Endoscopic Surgery (NOTES). Colorectal Disease, 2011, 13, 55-58.	0.7	8
58	Training of a standardized natural orifice transluminal endoscopic surgery cholecystectomy using an ex vivo training unit. Endoscopy, 2011, 43, 876-881.	1.0	8
59	Instrumentation and surgical technique for an innovative safe sigmoid approach for NOTES. Minimally Invasive Therapy and Allied Technologies, 2008, 17, 336-340.	0.6	7
60	Ergonomic Evaluation of the Scrub Nurse's Posture at Different Monitor Positions During Laparoscopic Cholecystectomy. Surgical Laparoscopy, Endoscopy and Percutaneous Techniques, 2009, 19, 165-169.	0.4	7
61	NOTES for the cardia: antireflux therapy via transluminal access. Endoscopy, 2010, 42, 1085-1091.	1.0	7
62	Norms and standards in modular medical architectures. , 2013, , .		7
63	The â€œIceberg Phenomenonâ€• Surgical Innovation, 2015, 22, 643-650.	0.4	7
64	Surgery and Biomedical Engineering. , 2017, , 1-10.		7
65	A family of new instruments for laparoscopic radiofrequency ablation of malignant liver lesions. Minimally Invasive Therapy and Allied Technologies, 2006, 15, 42-47.	0.6	6
66	Spatial orientation in translumenal surgery. Minimally Invasive Therapy and Allied Technologies, 2010, 19, 262-273.	0.6	6
67	Kinematics, control and workspace analysis of a bowden wire actuated manipulator for minimally invasive single-port surgery. , 2012, , .		6
68	What Do We Really Need? Visions of an Ideal Humanâ€“Machine Interface for NOTES Mechatronic Support Systems From the View of Surgeons, Gastroenterologists, and Medical Engineers. Surgical Innovation, 2015, 22, 432-440.	0.4	6
69	Real-time image tracking of a flexible bronchoscope. International Congress Series, 2004, 1268, 753-757.	0.2	5
70	Clinical evaluation of Endorientation: Gravity related rectification for endoscopic images. , 2009, , .		5
71	Optimized feature-detection for on-board vision-based surveillance. Proceedings of SPIE, 2012, , .	0.8	5
72	A probe-based electromagnetic navigation system to integrate computed tomography during upper gastrointestinal endoscopy. Endoscopy, 2014, 46, 302-305.	1.0	5

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73	Health Informatics/Health Information Technology. , 2017, , 473-489.		5
74	3-D Operation Situs Reconstruction with Time-of-Flight Satellite Cameras Using Photogeometric Data Fusion. Lecture Notes in Computer Science, 2013, 16, 356-363.	1.0	5
75	<title>Augmented reality based on fast deformable 2D-3D registration for image-guided surgery</title>. , 2002, , .		4
76	Hybrid surgery - the way towards notes the challenge for computer science. , 2008, , .		4
77	Dynamic CT perfusion imaging of the myocardium using a wide-detector scanner: a semiquantitative analysis in an animal model. Clinical Imaging, 2014, 38, 675-680.	0.8	4
78	Tracking and Navigation Systems. , 2017, , 443-472.		4
79	Image-based measurement by instrument tip tracking for tympanoplasty using digital surgical microscopy. , 2019, , .		4
80	CT-navigated real-time ultrasonography: evaluation of registration accuracy for clinical application / CT-navigierter Ultraschall: Evaluation der Registrierungsgenauigkeit fÃ¼r den klinischen Einsatz. Biomedizinische Technik, 2008, 53, 279-284.	0.9	3
81	Classical (Open) Surgery. , 2017, , 221-267.		3
82	A method for improving iodine contrast enhancement in abdominal computed tomography: experimental study in a pig model. European Radiology, 2013, 23, 985-990.	2.3	2
83	Femtosecond laser aided processing of optical sensor fibers for 3D medical navigation and tracking (FiberNavi). , 2014, , .		2
84	SISTUM â€" The single incision system of the Technische UniversitÃt MÃ¼nchen. , 2015, , .		2
85	A centralized data acquisition framework for operating theatres. , 2015, , .		2
86	Design of a Test System for the Development of Advanced Video Chips and Software Algorithms. Surgical Innovation, 2015, 22, 155-162.	0.4	2
87	Future Internet in Surgical Operating Theatre. , 2015, , .		2
88	Mechatronic Support Systems and Robots. , 2017, , 387-441.		2
89	Esophageal bougination: a novel ex vivo endoscopic training model correlated with clinical data. Surgical Endoscopy and Other Interventional Techniques, 2017, 31, 2566-2572.	1.3	2
90	Intrathecal Application of a Fluorescent Dye for the Identification of Cerebrospinal Fluid Leaks in Cochlear Malformation. Journal of Visualized Experiments, 2020, , .	0.2	2

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91	Automated detection of electrically evoked stapedius reflexes (eSR) during cochlear implantation. European Archives of Oto-Rhino-Laryngology, 2021, 278, 1773-1779.	0.8	2
92	Minimal invasive, endogastrale, endoskopisch assistierte Resektion eines gastrointestinalen Stromatumors des Ã¶sophagogastralen Ãœbergangs: Erster Erfahrungsbericht. Visceral Medicine, 2003, 19, 391-395.	0.5	1
93	Operative (Surgical) Laparoscopy. , 2017, , 269-327.		1
94	Interventional Flexible Endoscopy. , 2017, , 329-349.		1
95	Anatomy, Physiology, and Selected Pathologies of the Gastrointestinal Tract. , 2017, , 11-39.		1
96	Technische Anforderungen an den interventionellen Arbeitsplatz. Visceral Medicine, 2004, 20, 129-134.	0.5	0
97	Preconditions of Successful (Gastrointestinal) Surgery. , 2017, , 61-86.		0
98	Combined Laparoscopic-Endoscopic Procedures and Natural Orifice Transluminal Endoscopic Surgery (NOTES). , 2017, , 351-386.		0
99	Visceral Surgery of the Future. , 2017, , 513-544.		0
100	Endoskopie, minimal-invasive Chirurgie und navigierte Systeme. , 2009, , 1121-1161.		0
101	Telemanipulatoren in der Viszeralchirurgie â€“ SoloAssistÂ®. , 2011, , 541-544.		0
102	Assistenzsysteme fÃ¼r die Single-Port-Chirurgie und die Chirurgie Ã¼ber natÃ¼rliche KÃ¶rperÃ¶ffnungen (NOTES). , 2011, , 545-551.		0