Axel Boese

List of Publications by Year
in descending order

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		759233	794594
84	474	12	19
papers	citations	h-index	g-index

84	84	84	463
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Endoscopic Imaging Technology Today. Diagnostics, 2022, 12, 1262.	2.6	17
2	Cyclist Effort Features: A Novel Technique for Image Texture Characterization Applied to Larynx Cancer Classification in Contact Endoscopyâ€"Narrow Band Imaging. Diagnostics, 2021, 11, 432.	2.6	8
3	Collaborative Robot as Scrub Nurse. Current Directions in Biomedical Engineering, 2021, 7, 162-165.	0.4	4
4	Study of needle punctures into soft tissue through audio and force sensing: can audio be a simple alternative for needle guidance?. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1683-1697.	2.8	3
5	Vascular Auscultation of Carotid Artery: Towards Biometric Identification and Verification of Individuals. Sensors, 2021, 21, 6656.	3.8	1
6	BODYTUNE: Multi Auscultation Device â€" Personal Health Parameter Monitoring at Home. Current Directions in Biomedical Engineering, 2021, 7, 5-8.	0.4	1
7	Comparison of Deep Learning Algorithms for Semantic Segmentation of Ultrasound Thyroid Nodules. Current Directions in Biomedical Engineering, 2021, 7, 879-882.	0.4	7
8	Sensor-based measurement for advanced monitoring and early detection of PE wear in total knee arthroplasties. Current Directions in Biomedical Engineering, 2021, 7, 283-286.	0.4	0
9	Concept for parallel placement of flexible needles for Irreversible Electroporation. Current Directions in Biomedical Engineering, 2021, 7, 219-222.	0.4	0
10	Design and implementation of a medical device test stand for micro-catheters and guide-wires. Current Directions in Biomedical Engineering, 2021, 7, 339-342.	0.4	0
11	Image processing-based mTICI grading after endovascular treatment for acute ischemic stroke. Current Directions in Biomedical Engineering, 2021, 7, 235-238.	0.4	0
12	Hybrid handheld gamma-ultrasound prototype for radioguided surgery: initial results. Current Directions in Biomedical Engineering, 2021, 7, 140-142.	0.4	1
13	Towards an intraoperative feedback system for laparoscopic access with the Veress needle. Current Directions in Biomedical Engineering, 2021, 7, 29-32.	0.4	0
14	Carotid Sound Signal Artifact Detection based on Discrete Wavelet Transform Decomposition. Current Directions in Biomedical Engineering, 2021, 7, 299-302.	0.4	0
15	State-of-the-Art: Biodesign based Innovation Ecosystems in Europe. Current Directions in Biomedical Engineering, 2021, 7, 231-234.	0.4	0
16	Deep Convolution Neural Network for Laryngeal Cancer Classification on Contact Endoscopy-Narrow Band Imaging. Sensors, 2021, 21, 8157.	3.8	9
17	Superficial skin cancer therapy with Yâ€90 microspheres: A feasibility study on patch preparation. Skin Research and Technology, 2020, 26, 25-29.	1.6	5
18	Seizure prediction with cross-higher-order spectral analysis of EEG signals. Signal, Image and Video Processing, 2020, 14, 821-828.	2.7	6

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19	Laryngeal Lesion Classification Based on Vascular Patterns in Contact Endoscopy and Narrow Band Imaging: Manual Versus Automatic Approach. Sensors, 2020, 20, 4018.	3.8	13
20	Auscultation System for Acquisition of Vascular Sounds â€“ Towards Sound-Based Monitoring of the Carotid Artery . Medical Devices: Evidence and Research, 2020, Volume 13, 349-364.	0.8	2
21	Evaluation of Vascular Patterns Using Contact Endoscopy and Narrow-Band Imaging (CE-NBI) for the Diagnosis of Vocal Fold Malignancy. Cancers, 2020, 12, 248.	3.7	14
22	Surgical audio information as base for haptic feedback in robotic-assisted procedures. Current Directions in Biomedical Engineering, 2020, 6, .	0.4	4
23	Surgical Audio Guidance: Feasibility Check for Robotic Surgery Procedures. Current Directions in Biomedical Engineering, 2020, 6, 571-574.	0.4	2
24	Acoustic sensing of tissue-tool interactions â€“ potential applications in arthroscopic surgery. Current Directions in Biomedical Engineering, 2020, 6, 595-598.	0.4	4
25	Feasibility Check: Can Audio Be a Simple Alternative to Force-Based Feedback for Needle Guidance?. Lecture Notes in Computer Science, 2020, , 24-33.	1.3	2
26	Endoscopic filter fluorometer for detection of accumulation of Protoporphyrin IX to improve photodynamic diagnostic (PDD). Current Directions in Biomedical Engineering, 2020, 6, .	0.4	0
27	Frequency and average gray-level information for thermal ablation status in ultrasound B-Mode sequences. Current Directions in Biomedical Engineering, 2020, 6, .	0.4	0
28	Endoscopic filter fluorometer for emission detection of Protoporphyrin IX and its direct precursors in PDT and PDD. Current Directions in Biomedical Engineering, 2020, 6, 587-590.	0.4	1
29	Manual versus Automatic Classification of Laryngeal Lesions based on Vascular Patterns in CE+NBI Images. Current Directions in Biomedical Engineering, 2020, 6, 70-73.	0.4	2
30	How do we need to adapt Biomedical Engineering Education for the Health 4.0 challenges?. Current Directions in Biomedical Engineering, 2020, 6, 604-607.	0.4	1
31	Novel flexible endoscope concept with swiveling camera tip. Current Directions in Biomedical Engineering, 2020, 6, 288-291.	0.4	0
32	Novel Assistive Device for Tomographic Ultrasound Neck Imaging vs. Freehand. Current Directions in Biomedical Engineering, 2020, 6, 28-31.	0.4	0
33	Is a thin diameter ureteroscope feasible for image guided intravascular procedures?. Current Directions in Biomedical Engineering, 2020, 6, 591-594.	0.4	0
34	Setup and initial testing of an endoscope manipulator system for assistance in transoral endoscopic surgery. Biomedizinische Technik, 2019, 64, 347-356.	0.8	0
35	Texture differentiation using audio signal analysis with robotic interventional instruments. Computers in Biology and Medicine, 2019, 112, 103370.	7.0	13
36	Novel automated vessel pattern characterization of larynx contact endoscopic video images. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1751-1761.	2.8	13

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37	NITINOL-based actuator for device control even in high-field MRI environment . Medical Devices: Evidence and Research, 2019, Volume 12, 285-296.	0.8	3
38	Audio waves and its loss of energy in puncture needles. Current Directions in Biomedical Engineering, 2019, 5, 21-24.	0.4	1
39	Proximal detection of guide wire perforation using feature extraction from bispectral audio signal analysis combined with machine learning. Computers in Biology and Medicine, 2019, 107, 10-17.	7.0	15
40	Epileptic seizure detection using cross-bispectrum of electroencephalogram signal. Seizure: the Journal of the British Epilepsy Association, 2019, 66, 4-11.	2.0	70
41	Radiation therapy techniques in the treatment of skin cancer: an overview of the current status and outlook. Journal of Dermatological Treatment, 2019, 30, 831-839.	2.2	27
42	Primary Design Concept for Non-metallic Needle for MRI Guided Spinal Applications. , 2019, 2019, 1994-1997.		2
43	A Preliminary Study on Automatic Characterization and Classification of Vascular Patterns of Contact Endoscopy Images. , 2019, 2019, 2703-2706.		4
44	Surgical Audio Guidance SurAG: Extracting Non-Invasively Meaningful Guidance Information During Minimally Invasive Procedures. , 2019, , .		6
45	Improved Acquisition of Vibroarthrographic Signals of the Knee Joint. , 2019, 2019, 1259-1262.		3
46	Design of an Auscultation System for Phonoangiography and Monitoring of Carotid Artery Diseases. , 2019, 2019, 1776-1779.		4
47	Feasibility and Initial Results of Assisted Ultrasound Scan Acquisition for Improved Tomographic Visualization. , 2019, , .		0
48	Feasibility test of Dynamic Cooling for detection of small tumors in IR thermographic breast imaging. Current Directions in Biomedical Engineering, 2019, 5, 397-399.	0.4	4
49	Computer Assisted Auscultation System for Phonoangiography of the Carotid Artery. Current Directions in Biomedical Engineering, 2019, 5, 175-178.	0.4	2
50	Temperature Controlled and Monitored Ex Vivo Lung Perfusion System for Research and Training Purposes. Current Directions in Biomedical Engineering, 2019, 5, 293-295.	0.4	0
51	Optical endovascular imaging combining endoscopy, NBI and OCT, a feasibility study. Current Directions in Biomedical Engineering, 2019, 5, 577-580.	0.4	3
52	A new 3D printed applicator with radioactive gel for conformal brachytherapy of superficial skin tumors. , 2019, 2019, 6979-6982.		2
53	Injection And Infusion Technology Disruption For Use In MRI . Medical Devices: Evidence and Research, 2019, Volume 12, 469-478.	0.8	0
54	Conceptual design of a personalized radiation therapy patch for skin cancer. Current Directions in Biomedical Engineering, 2018, 4, 607-610.	0.4	6

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55	Flexible interventional imaging system based on miniaturized X-ray tubes (FlexScan). Current Directions in Biomedical Engineering, 2018, 4, 63-66.	0.4	1
56	Proximally placed signal acquisition sensoric for robotic tissue tool interactions. Current Directions in Biomedical Engineering, 2018, 4, 67-70.	0.4	9
57	Vascular pattern detection and recognition in endoscopic imaging of the vocal folds. Current Directions in Biomedical Engineering, 2018, 4, 75-78.	0.4	5
58	In-room ultrasound fusion combined with fully compatible 3D-printed holding arm – rethinking interventional MRI. Medical Devices: Evidence and Research, 2018, Volume 11, 77-85.	0.8	3
59	Novel clinical device tracking and tissue event characterization using proximally placed audio signal acquisition and processing. Scientific Reports, 2018, 8, 12070.	3.3	27
60	Miniature CNT-based X-ray tube: assessment for use in intraoperative radiation therapy. Current Directions in Biomedical Engineering, 2017, 3, 643-646.	0.4	1
61	Intravascular endoscopy improvement through narrow-band imaging. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2015-2021.	2.8	4
62	Trans-oral miniature X-ray radiation delivery system with endoscopic optical feedback. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1995-2002.	2.8	1
63	Virtual Inflation of the Cerebral Artery Wall for the Integrated Exploration of OCT and Histology Data. Computer Graphics Forum, 2017, 36, 57-68.	3.0	7
64	Evaluation and image quality comparison of ultra-thin fibre endoscopes for vascular endoscopy. Current Directions in Biomedical Engineering, 2017, 3, 231-233.	0.4	1
65	INNOLAB- image guided surgery and therapy lab. Current Directions in Biomedical Engineering, 2017, 3, 235-237.	0.4	2
66	Time-varying Acoustic Emission Characterization for Guidewire Coronary Artery Perforation Identification. , 2017, , .		2
67	Development of a skull phantom for the assessment of implant X-ray visibility. Current Directions in Biomedical Engineering, 2016, 2, 351-354.	0.4	3
68	Resectoscope with an easy to use twist mechanism for improved handling. Current Directions in Biomedical Engineering, 2016, 2, 379-382.	0.4	0
69	Interactive monitoring system for visual respiratory biofeedback. Current Directions in Biomedical Engineering, 2016, 2, 723-726.	0.4	2
70	Inside-Out access strategy using new trans-vascular catheter approach. Current Directions in Biomedical Engineering, 2016, 2, 455-458.	0.4	1
71	Contactless respiratory monitoring system for magnetic resonance imaging applications using a laser range sensor. Current Directions in Biomedical Engineering, 2016, 2, 719-722.	0.4	2
72	Experimental investigation of intravascular OCT for imaging of intracranial aneurysms. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 231-241.	2.8	17

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73	Intravascular optical coherence tomography (OCT) as an additional tool for the assessment of stent structures. Current Directions in Biomedical Engineering, 2015, 1, 257-260.	0.4	2
74	Increasing the visibility of thin NITINOL vascular implants. Current Directions in Biomedical Engineering, 2015, 1, 503-506.	0.4	7
75	â€œHands free for interventionâ€, a new approach for transoral endoscopic surgery. Current Directions in Biomedical Engineering, 2015, 1, 157-159.	0.4	3
76	Evolution of shear zones in granular materials. Physical Review E, 2014, 90, 032205.	2.1	12
77	Effects of grain shape on packing and dilatancy of sheared granular materials. Soft Matter, 2014, 10, 5157.	2.7	58
78	A Novel Technique for the Measurement of CBF and CBV with Robot-Arm-Mounted Flat Panel CT in a Large-Animal Model. American Journal of Neuroradiology, 2014, 35, 1740-1745.	2.4	10
79	Performance evaluation of a C-Arm CT perfusion phantom. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 799-807.	2.8	5
80	Technology Roadmap for Integration of Resonant Markers in MRI Compatible Instruments. Biomedizinische Technik, 2012, 57, .	0.8	2
81	Definition of product requirements of a MR compatible bone biopsy system using workflow analysis. Biomedizinische Technik, 2012, 57, .	0.8	0
82	Evaluation of flow parameters of a catheter for intravascular cooling. Biomedizinische Technik, 2012, 57, .	0.8	0
83	A transurethral catheter-based ultrasound system for multi-modal fusion. Studies in Health Technology and Informatics, 2012, 173, 463-8.	0.3	0
84	Characterization of a Carotid Distension Waveform from Audio Signal Acquired with a Stethoscope. , 0, , .		2