

# Jens Kirchner

## List of Publications by Year in descending order

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docs citations

58  
times ranked

224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental System for Molecular Communication in Pipe Flow With Magnetic Nanoparticles. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2022, 8, 56-71.	2.1	11
2	Differential Geomagnetic Compensation Method for the Static Magnetic Localization of Capsule Endoscopes During Activities of the Daily Life. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	7
3	A Compensation Method for Relative Movement Between a Sensor Array and the Abdomen for Magnetic Localization of Capsule Endoscopes. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	4
4	Dependence of Piezoelectric Discs Electrical Impedance on Mechanical Loading Condition. Sensors, 2022, 22, 1710.	3.8	3
5	Tracking the Traveled Distance of Capsule Endoscopes along a Gastrointestinal-Tract Model Using Differential Static Magnetic Localization. Diagnostics, 2022, 12, 1333.	2.6	4
6	Capacitive Sensing for Magnetic Nanoparticles in Molecular Communication. , 2022, , .		3
7	Directive Antenna Design at 2.4 GHz on Foot Surface for Wanderer Location Identification. , 2021, , .		2
8	Low-Frequency Magnetic Localization of Capsule Endoscopes with an Integrated Coil. Engineering Proceedings, 2021, 6, 38.	0.4	0
9	Systematic Performance Evaluation of a Novel Optimized Differential Localization Method for Capsule Endoscopes. Sensors, 2021, 21, 3180.	3.8	6
10	Utilizing the Ferromagnetic Battery of Capsule Endoscopes for Static Magnetic Localization. , 2021, , .		1
11	Quasi-Static Magnetic Localization of Capsule Endoscopes with an Active Integrated Coil. , 2021, , .		2
12	Increasing the Channel Capacity. , 2021, , .		2
13	Design and evaluation of directional antenna for shoe-mounted sensor for position identification of elderly wanderer. Sensing and Bio-Sensing Research, 2021, 34, 100451.	4.2	4
14	Transcutaneous Energy Transfer System for Cardiac-Assist Devices by Use of Inhomogeneous Biocompatible Core Material. IEEE Transactions on Magnetics, 2021, 57, 1-12.	2.1	3
15	Steering Magnetic Nanoparticles by Utilizing an Adjustable Linear Halbach Array. , 2021, , .		6
16	Toward Magnetic Localization of Capsule Endoscopes during Daily Life Activities. , 2021, , .		4
17	Insole Gait Acquisition System Based on Wearable Sensors. , 2021, 10, .		2
18	Common-Mode Noise Reduction in Noncontact Biopotential Acquisition Circuit Based on Imbalance Cancellation of Electrode-Body Impedance. Sensors, 2020, 20, 7140.	3.8	1

#	ARTICLE	IF	CITATIONS
19	Towards Realisation of a Non-Invasive Blood Glucose Sensor Using Microstripline. , 2020, , .		7
20	A Robust and Real-Time Capable Envelope-Based Algorithm for Heart Sound Classification: Validation under Different Physiological Conditions. Sensors, 2020, 20, 972.	3.8	16
21	Efficient simulation of macroscopic molecular communication. , 2020, , .		6
22	Evaluation of the Impact of Static Interference on an Empirical Data Based Static Magnetic Localization Setup for Capsule Endoscopy. Current Directions in Biomedical Engineering, 2020, 6, 66-69.	0.4	7
23	Amplitude Modulation in a Molecular Communication Testbed with Superparamagnetic Iron Oxide Nanoparticles and a Micropump. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 92-105.	0.3	7
24	Comparative Evaluation of a New Sensor for Superparamagnetic Iron Oxide Nanoparticles in a Molecular Communication Setting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 303-316.	0.3	10
25	Colour-specific microfluidic droplet detection for molecular communication. , 2020, , .		6
26	Advanced Characterisation of a Sensor System for Droplet-Based Microfluidics. , 2020, , .		4
27	Stability of the Frequency Spectrum of the Heart Sounds S1 and S2 under Different Physiological Conditions. , 2020, , .		0
28	Investigation of Particle Steering for Different Cylindrical Permanent Magnets in Magnetic Drug Targeting. , 2020, 2, .		3
29	Simulation-based Models of the Galvanic Coupling Intra-body Communication. , 2019, , .		4
30	Characterization of an Inductance-based Detector in Molecular Communication Testbed Based on Superparamagnetic Iron Oxide Nanoparticles. , 2019, , .		4
31	Design of an Integrated Subretinal Implant using Cellular Neural Networks for Binary Image Generation in a 130 nm BiCMOS Process. , 2019, 2019, 5268-5273.		0
32	Motion-Induced Imbalance of Contact Impedance in ECG Capture: Comparison of Electrode Materials in Capacitive Coupling. , 2019, , .		3
33	A Molecular Communication Testbed Based on Proton Pumping Bacteria: Methods and Data. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2019, 5, 56-62.	2.1	22
34	Biological Optical-to-Chemical Signal Conversion Interface: A Small-Scale Modulator for Molecular Communications. IEEE Transactions on Nanobioscience, 2019, 18, 31-42.	3.3	46
35	Novel Receiver for Superparamagnetic Iron Oxide Nanoparticles in a Molecular Communication Setting. , 2019, , .		14
36	Magnetic Steering of Superparamagnetic Nanoparticles in Duct Flow for Molecular Communication: A Feasibility Study. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 161-174.	0.3	3

#	ARTICLE	IF	CITATIONS
37	A Study on Nonlinear Effect of Modulated Low-Frequency Electromagnetic Waves on Stimulus Response. IEICE Transactions on Communications, 2019, E102.B, 1097-1103.	0.7	1
38	Analysis of the Movement of ICD Leads During Cardiac Contraction as Determinant of Intracardiac Impedance. , 2018, 2018, 3449-3452.		0
39	Sensor Selection for Classification of Physical Activity in Long-Term Wearable Devices. , 2018, , .		4
40	Passive Capacitive ECG Sensing: Assessment of Signal Quality During Different Types of Body Movement. , 2018, , .		4
41	Experimental Molecular Communication Testbed Based on Magnetic Nanoparticles in Duct Flow. , 2018, , .		63
42	Biological optical-to-chemical signal conversion interface. , 2018, , .		9
43	Wave propagation with HBC in a human arm model. , 2017, , .		3
44	Wave propagation with human body communications in BANs. , 2017, , .		4
45	Wearable system for measurement of thoracic sounds with a microphone array. , 2017, , .		4
46	Reconstruction of 3D-movement of ICD leads from clinical-routine X-ray movies. , 2017, , .		1
47	Detection of paroxysmal atrial fibrillation: A computationally efficient algorithm for use in a wearable telemedical system. , 2017, , .		1
48	ECG measurement by use of passive capacitively coupled electrodes. , 2016, , .		4
49	Circadian and circaseptan rhythms in implant-based thoracic impedance. Physiological Measurement, 2015, 36, 1615-1628.	2.1	1
50	Heart failure monitoring with implantable defibrillators. Biomedizinische Technik, 2012, 57, .	0.8	1
51	Hemodynamic Monitoring with an Implantable Pressure Monitor is Improved by Additional Detection of Heart Sounds. Biomedizinische Technik, 2012, 57, .	0.8	0
52	Enhancement of pulse contour analysis in the pulmonary artery by use of heart sounds. , 2011, , .		2
53	Nonstationary Langevin equation: Statistical properties and application to explain effects observed in cardiological time series. Physical Review E, 2007, 76, 021110.	2.1	9
54	Performance Optimization of a Differential Method for Localization of Capsule Endoscopes. , 0, , .		6

#	ARTICLE	IF	CITATIONS
55	Innovative Differential Magnetic Localization Method for Capsule Endoscopy to Prevent Interference Caused by the Geomagnetic Field. <i>Advances in Radio Science</i> , 0, 19, 207-213.	0.7	5