

# Shijie Sun

## List of Publications by Year in descending order

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43  
papers

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citations

759233

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43  
docs citations

43  
times ranked

302  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Wearable Gesture Recognition System Based on Two-Terminal Electrical Impedance Tomography. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2515-2523.	6.3	10
2	A Modified Noise Model of Electrical Impedance Tomography System by Considering Colored Noises. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	6
3	A fast reconstruction strategy to image small objects in electrical tomography. , 2022, , .		1
4	Optimization of 3-D Sensor Design for Electrical Capacitance Tomography. , 2022, , .		1
5	Simultaneous Shape and Permittivity Reconstruction in ECT With Sparse Representation: Two-Phase Distribution Imaging. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	18
6	Deep Image Refinement Method by Hybrid Training With Images of Varied Quality in Electrical Capacitance Tomography. IEEE Sensors Journal, 2021, 21, 6342-6355.	4.7	12
7	Image Reconstruction Based on Fuzzy Adaptive Kalman Filter in Electrical Capacitance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	5
8	A Huber Function based Restoration Algorithm for Astronomy Image Compression. , 2021, , .		1
9	Influence of Parameters in Kalman-filter-based Method on Image Quality for Electrical Capacitance Tomography. , 2021, , .		1
10	3D Reconstruction in Planar Array Electrical Capacitance Tomography Based on Depth Estimation and Sparse Representation. , 2021, , .		2
11	Simultaneous Imaging of Bio- and Non-Conductive Targets by Combining Frequency and Time Difference Imaging Methods in Electrical Impedance Tomography. Biosensors, 2021, 11, 176.	4.7	4
12	Application of Multi-channel Impedance Measurement Device in Teaching of "Signal Analysis and Processing". , 2021, , .		2
13	Real-Time 3-D Imaging and Velocity Measurement of Two-Phase Flow Using a Twin-Plane ECT Sensor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	14
14	3-D Image Reconstruction in Planar Array ECT by Combining Depth Estimation and Sparse Representation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	23
15	Parameter Inversion Based on Levenberg-Marquardt Algorithm for Layered Formation Using Electromagnetic Wave Resistivity Tool. , 2021, , .		1
16	Dynamic measurement of gas volume fraction in a CO2 pipeline through capacitive sensing and data driven modelling. International Journal of Greenhouse Gas Control, 2020, 94, 102950.	4.6	10
17	Water holdup prediction of oil-water two-phase flow in horizontal well using a 12-probe conductance array. , 2020, , .		1
18	Permittivity Reconstruction in Electrical Capacitance Tomography Based on Visual Representation of Deep Neural Network. IEEE Sensors Journal, 2020, 20, 4803-4815.	4.7	45

#	ARTICLE	IF	CITATIONS
19	Estimation of Combustion Temperature Field From the Electrical Admittivity Distribution Obtained by Electrical Tomography. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6271-6280.	4.7	22
20	A Novel Touch Panel Design for High Optical Transmittance for Interactive Displays. , 2020, , .		0
21	Recent development of electromagnetic wave resistivity tools for logging&#x2014;drilling. Acta Geologica Sinica, 2019, 93, 291-291.	1.4	0
22	Forward solver for deep earth exploration and induction logging using custom built Edge&#x2013;Element FEM technique. Acta Geologica Sinica, 2019, 93, 302-304.	1.4	3
23	A survey of underground detection methods with a new proposal for urban underground detection. Acta Geologica Sinica, 2019, 93, 322-324.	1.4	0
24	Signal Demodulation Methods for Electrical Tomography: A Review. IEEE Sensors Journal, 2019, 19, 9026-9035.	4.7	12
25	Investigation of granule moisture measurement by a microwave resonant cavity sensor. , 2019, , .		0
26	Proportional&#x2013;Integral Controller Modified Landweber Iterative Method for Image Reconstruction in Electrical Capacitance Tomography. IEEE Sensors Journal, 2019, 19, 8790-8802.	4.7	18
27	Adaptive Selection of Truncation Radius in Calderon&#x2013;s Method for Direct Image Reconstruction in Electrical Capacitance Tomography. Sensors, 2019, 19, 2014.	3.8	3
28	Verification for Electrical Tomography in Flame Monitoring by Ion Probe. , 2019, , .		4
29	Excitation Patterns in 3D Electrical Impedance Tomography for Breast Imaging. , 2019, , .		2
30	Improving image reconstruction in electrical capacitance tomography based on deep learning. , 2019, , .		2
31	Full-waveform LiDAR Echo Filtering Based on Blind Source Separation. , 2019, , .		0
32	An Agile Electrical Capacitance Tomography System With Improved Frame Rates. IEEE Sensors Journal, 2019, 19, 1416-1425.	4.7	16
33	Dual-Modality Electrical Tomography for Flame Monitoring. IEEE Sensors Journal, 2018, 18, 8847-8854.	4.7	27
34	A Recursive Demodulator for Real-Time Measurement of Multiple Sinusoids. IEEE Sensors Journal, 2018, 18, 6281-6289.	4.7	8
35	Real-Time Imaging and Holdup Measurement of Carbon Dioxide Under CCS Conditions Using Electrical Capacitance Tomography. IEEE Sensors Journal, 2018, 18, 7551-7559.	4.7	17
36	Digital Recursive Demodulator Based on Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3138-3147.	4.7	21

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37	A High-Speed Digital Electrical Capacitance Tomography System Combining Digital Recursive Demodulation and Parallel Capacitance Measurement. IEEE Sensors Journal, 2017, 17, 6690-6698.	4.7	46
38	Compressive sensing-based wideband capacitance measurement with a fixed sampling rate lower than the highest exciting frequency. Measurement Science and Technology, 2016, 27, 035006.	2.6	4
39	A noncontact conductivity detection method based on the principle of electromagnetic induction. , 2015, , .		0
40	Performance analysis of a digital capacitance measuring circuit. Review of Scientific Instruments, 2015, 86, 054703.	1.3	62
41	A high-speed electrical impedance measurement circuit based on information-filtering demodulation. Measurement Science and Technology, 2014, 25, 075010.	2.6	26
42	A digital demodulator based on the recursive Gauss-Newton method for electrical tomography. , 2014, , .		2
43	A Novel Touch Interface with Ultrahigh Optical Transmittance Based on Electrical Impedance Tomography for Interactive Displays. Advanced Materials Technologies, 0, , 2101133.	5.8	0