Qussai M Marashdeh

List of Publications by Year
in descending order

45 papers	1,164 citations	394421 19 h-index	395702 33 g-index
45 all docs	45 docs citations	45 times ranked	545 citing authors

#	Article	IF	Citations
1	Electrical Capacitance Volume Tomography. IEEE Sensors Journal, 2007, 7, 525-535.	4.7	188
2	Electrical Capacitance Volume Tomography: Design and Applications. Sensors, 2010, 10, 1890-1917.	3.8	161
3	A Multimodal Tomography System Based on ECT Sensors. IEEE Sensors Journal, 2007, 7, 426-433.	4.7	72
4	Adaptive Electrical Capacitance Volume Tomography. IEEE Sensors Journal, 2014, 14, 1253-1259.	4.7	69
5	Electrical capacitance volume tomography for imaging of pulsating flows in a trickle bed. Chemical Engineering Science, 2014, 119, 77-87.	3.8	58
6	Toward Multiphase Flow Decomposition Based on Electrical Capacitance Tomography Sensors. IEEE Sensors Journal, 2017, 17, 8027-8036.	4.7	50
7	Horizontal gas and gas/solid jet penetration in a gas–solid fluidized bed. Chemical Engineering Science, 2010, 65, 3394-3408.	3.8	44
8	A Comparison Between Electrical Capacitance Tomography and Displacement-Current Phase Tomography. IEEE Sensors Journal, 2017, 17, 8037-8046.	4.7	41
9	Dual imaging modality of granular flow based on ECT sensors. Granular Matter, 2008, 10, 75-80.	2.2	30
10	Electrical Capacitance Volume Tomography Imaging of Three-Dimensional Flow Structures and Solids Concentration Distributions in a Riser and a Bend of a Gas–Solid Circulating Fluidized Bed. Industrial & Engineering Chemistry Research, 2012, 51, 10968-10976.	3.7	30
11	Velocity Profiling of Multiphase Flows Using Capacitive Sensor Sensitivity Gradient. IEEE Sensors Journal, 2016, , 1-1.	4.7	29
12	ELECTRICAL CAPACITANCE VOLUME TOMOGRAPHY: A COMPARISON BETWEEN 12- AND 24-CHANNELS SENSOR SYSTEMS. Progress in Electromagnetics Research M, 2015, 41, 73-84.	0.9	28
13	Enhancing Resolution of Electrical Capacitive Sensors for Multiphase Flows by Fine-Stepped Electronic Scanning of Synthetic Electrodes. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 462-473.	4.7	26
14	Slurry bubble column measurements using advanced electrical capacitance volume tomography sensors. Powder Technology, 2019, 355, 474-480.	4.2	26
15	ECVT imaging and model analysis of the liquid distribution inside a horizontally installed passive cyclonic gas–liquid separator. Chemical Engineering Science, 2016, 141, 231-239.	3.8	24
16	Electrical Capacitance Volume Tomography for Characterization of Gas–Solid Slugging Fluidization with Geldart Group D Particles under High Temperatures. Industrial & Engineering Chemistry Research, 2018, 57, 2687-2697.	3.7	24
17	ECVT imaging of 3D spiral bubble plume structures in gas–liquid bubble columns. Canadian Journal of Chemical Engineering, 2014, 92, 2078-2087.	1.7	22
18	Exploiting the Maxwell-Wagner-Sillars Effect for Displacement-Current Phase Tomography of Two-Phase Flows. IEEE Sensors Journal, 2017, 17, 7317-7324.	4.7	20

#	Article	IF	Citations
19	Toward Electrical Capacitance Tomography of Water-Dominated Multiphase Vertical Flows. IEEE Sensors Journal, 2018, 18, 10041-10048.	4.7	20
20	Inverse Normalization Method for Cross-Sectional Imaging and Velocimetry of Two-Phase Flows Based on Electrical Capacitance Tomography. , 2018, 2, 1-4.		19
21	Relevance Vector Machine Image Reconstruction Algorithm for Electrical Capacitance Tomography With Explicit Uncertainty Estimates. IEEE Sensors Journal, 2020, 20, 4925-4939.	4.7	19
22	Magnetic resonance studies of jets in a gas–solid fluidised bed. Particuology, 2012, 10, 161-169.	3.6	17
23	Acceleration of Electrical Capacitance Volume Tomography Imaging by Fourier-Based Sparse Representations. IEEE Sensors Journal, 2018, 18, 9649-9659.	4.7	17
24	Velocity Measurement of Multi-Phase flows Based on Electrical Capacitance Volume Tomography. , 2007, , .		16
25	Cross-Plane Acquisitions in Electrical Capacitance Volume Tomography. IEEE Sensors Journal, 2019, 19, 8767-8774.	4.7	16
26	Chapter 5 Electrical Capacitance, Electrical Resistance, and Positron Emission Tomography Techniques and Their Applications in Multi-Phase Flow Systems. Advances in Chemical Engineering, 2009, 37, 179-222.	0.9	15
27	Displacement-Current Phase Tomography for Water-Dominated Two-Phase Flow Velocimetry. IEEE Sensors Journal, 2019, 19, 1563-1571.	4.7	14
28	Electronic Scanning Strategies in Adaptive Electrical Capacitance Volume Tomography: Tradeoffs and Prospects. IEEE Sensors Journal, 2020, , 1-1.	4.7	12
29	Toward Water Volume Fraction Calculation in Multiphase Flows Using Electrical Capacitance Tomography Sensors. IEEE Sensors Journal, 2021, 21, 7702-7712.	4.7	10
30	Efficient and Flexible Sensitivity Matrix Computation for Adaptive Electrical Capacitance Volume Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	9
31	Study of Gas-Water Flow Inside of a Horizontal Passive Cyclonic Gas-Liquid Phase Separator System Using Displacement-Current Phase Tomography. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2018, 6, 28-43.	0.8	6
32	Electrical Capacitance Volume Tomography (ECVT) for Characterization of Additively Manufactured Lattice Structures (AMLS) in Gas-Liquid Systems. Fluids, 2021, 6, 321.	1.7	5
33	Fast imaging of velocity profiles of two-phase flows using electrical capacitance volume tomography sensors. , 2017, , .		4
34	Real-Time Monitoring of Powder Mass Flowrates for Plant-Wide Control of a Continuous Direct Compaction Tablet Manufacturing Process. Journal of Pharmaceutical Sciences, 2022, 111, 69-81.	3.3	4
35	Automatic Sensor Reconfiguration based on Adaptive Relevance Vector Machine for Uncertainty Reduction in Tomography Imaging. , 2019, , .		3
36	Deep Learning Based Volume Fraction Estimation for Two-Phase Water-Containing Flows. , 2021, , .		3

#	Article	IF	Citations
37	Reduced-Space Relevance Vector Machine for Adaptive Electrical Capacitance Volume Tomography. IEEE Transactions on Computational Imaging, 2022, 8, 41-53.	4.4	3
38	Flow Loop Study of ECT-Based Volume Fraction Monitoring in Oil–Water Two-Phase Flows. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-6.	4.7	3
39	Velocity Profiling of a Gas–Solid Fluidized Bed Using Electrical Capacitance Volume Tomography. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-16.	4.7	3
40	Displacement-current phase tomography and electrical capacitance tomography for air-water flow systems. , 2017, , .		2
41	Exploiting Sparsity in Adaptive Relevance Vector Machine for Reconfigurable Soft-Field Tomography. , 2019, , .		2
42	Simplified Synthetic Electrode Strategy for Electrical Capacitance Volume Tomography. , 2019, , .		0
43	Challenges on the Applicability of Adaptive Relevance Vector Machine for Image Reconstruction in Soft-Field Tomography. , 2020, , .		0
44	Electrical Capacitance Tomography. , 2022, , 3-29.		0
45	Applications of electrical capacitance tomography in industrial systems. , 2022, , 799-821.		0