Mhf Rahiman

List of Publications by Year
in descending order

138 papers	1,131 citations	430442 18 h-index	476904 29 g-index
140 all docs	140 docs citations	140 times ranked	651 citing authors

#	Article	IF	Citations
1	Non-invasive process tomography in chemical mixtures â€" A review. Sensors and Actuators B: Chemical, 2015, 210, 602-617.	4.0	88
2	Ultrasonic Transmission-Mode Tomography Imaging for Liquid/Gas Two-Phase Flow. IEEE Sensors Journal, 2006, 6, 1706-1715.	2.4	79
3	Advancements in Transmitters and Sensors for Biological Tissue Imaging in Magnetic Induction Tomography. Sensors, 2012, 12, 7126-7156.	2.1	60
4	Non-invasive imaging of liquid/gas flow using ultrasonic transmission-mode tomography. Sensors and Actuators A: Physical, 2007, 135, 337-345.	2.0	53
5	Design and modelling of ultrasonic tomography for two-component high-acoustic impedance mixture. Sensors and Actuators A: Physical, 2008, 147, 409-414.	2.0	48
6	Electrical resistance tomography: A review of the application of conducting vessel walls. Powder Technology, 2014, 254, 256-264.	2.1	45
7	Single-Plane Dual-Modality Tomography for Multiphase Flow Imaging by Integrating Electrical Capacitance and Ultrasonic Sensors. IEEE Sensors Journal, 2017, 17, 6368-6377.	2.4	43
8	Measurement and analysis of water/oil multiphase flow using Electrical Capacitance Tomography sensor. Flow Measurement and Instrumentation, 2016, 47, 62-70.	1.0	41
9	Sensing wood decay in standing trees: A review. Sensors and Actuators A: Physical, 2018, 269, 276-282.	2.0	33
10	Real time mass flow rate measurement using multiple fan beam optical tomography. ISA Transactions, 2008, 47, 3-14.	3.1	25
11	The Front-End Hardware Design Issue in Ultrasonic Tomography. IEEE Sensors Journal, 2010, 10, 1276-1281.	2.4	24
12	An investigation on chemical bubble column using ultrasonic tomography for imaging of gas profiles. Sensors and Actuators B: Chemical, 2014, 202, 46-52.	4.0	24
13	RF-Based Moisture Content Determination in Rice Using Machine Learning Techniques. Sensors, 2021, 21, 1875.	2.1	24
14	LEAF DISEASE CLASSIFICATION USING ARTIFICIAL NEURAL NETWORK. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	22
15	Modelling ultrasonic sensor for gas bubble profiles characterization of chemical column. Sensors and Actuators B: Chemical, 2013, 184, 100-105.	4.0	19
16	Ultrasonic Tomography System for Flow Monitoring: A Review. IEEE Sensors Journal, 2017, 17, 5382-5390.	2.4	19
17	An introduction of two differential excitation potentials technique in electrical capacitance tomography. Sensors and Actuators A: Physical, 2012, 180, 1-10.	2.0	18
18	An evaluation of single plane ultrasonic tomography sensor to reconstruct three-dimensional profiles in chemical bubble column. Sensors and Actuators A: Physical, 2016, 246, 18-27.	2.0	18

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19	Modeling orthogonal and rectilinear mixed-modality projection of optical tomography for solid-particles concentration measurement. Sensors and Actuators A: Physical, 2010, 161, 53-61.	2.0	16
20	Process tomography of gas-liquid flow in a vessel: a review. Sensor Review, 2016, 36, 287-302.	1.0	16
21	Optimisation of electrode dimensions of ERT for non-invasive measurement applied for static liquidâ€"gas regime identification. Sensors and Actuators A: Physical, 2018, 270, 50-64.	2.0	16
22	Ultrasonic tomography imaging simulation of twoâ€phase homogeneous flow. Sensor Review, 2009, 29, 266-276.	1.0	15
23	Navigation of mobile robot using Global Positioning System (GPS) and obstacle avoidance system with commanded loop daisy chaining application method. , 2009, , .		14
24	Segmented Capacitance Tomography Electrodes: A Design and Experimental Verifications. IEEE Sensors Journal, 2011, , .	2.4	14
25	Novel Adjacent Criterion Method for Improving Ultrasonic Imaging Spatial Resolution. IEEE Sensors Journal, 2012, 12, 1746-1747.	2.4	14
26	Gas Hold-Up Profiles Measurement Using Ultrasonic Sensor. IEEE Sensors Journal, 2011, 11, 460-461.	2.4	13
27	Optical tomography hardware development for solid gas measurement using mixed projection. Flow Measurement and Instrumentation, 2013, 33, 110-121.	1.0	13
28	Optical tomography: Velocity profile measurement using orthogonal and rectilinear arrangements. Flow Measurement and Instrumentation, 2012, 23, 49-55.	1.0	12
29	A wideband textile antenna with a ring-slotted AMC plane. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	12
30	Hardware Implementation of Multiple Fan Beam Projection Technique in Optical Fibre Process Tomography. Sensors, 2008, 8, 3406-3428.	2.1	11
31	Microwave Tomography Application and Approaches â€" A Review. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlo	0.3	11
32	Simulation and experimental study of the sensor emitting frequency for ultrasonic tomography system in a conducting pipe. Flow Measurement and Instrumentation, 2017, 54, 158-171.	1.0	11
33	Charge coupled device based on optical tomography system in detecting air bubbles in crystal clear water. Flow Measurement and Instrumentation, 2016, 50, 13-25.	1.0	10
34	Image Reconstruction of a Charge Coupled Device Based Optical Tomographic Instrumentation System for Particle Sizing. Sensors, 2010, 10, 9512-9528.	2.1	9
35	Design and development of a CCD based optical tomography measuring system for particle sizing identification. Measurement: Journal of the International Measurement Confederation, 2011, 44, 1096-1107.	2.5	9
36	Microwave tomography sensing for potential agarwood trees imaging. Computers and Electronics in Agriculture, 2019, 164, 104901.	3.7	9

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37	Velocity Profile Measurement Using Digital Signal Processor-Based Optical Tomography System. IEEE Sensors Journal, 2009, 9, 1076-1083.	2.4	8
38	Design Consideration for Front-End System in Ultrasonic Tomography. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.3	8
39	Detection of small gas bubble using ultrasonic transmission-mode tomography system. , 2010, , .		7
40	Improving gas component detection of an ultrasonic tomography system for monitoring liquid/gas flow. , 2010, , .		7
41	Electronic design for portable electrical capacitance sensor: A multiphase flow measurement. , 2011, , .		7
42	Application of transmission-mode ultrasonic tomography to identify multiphase flow regime. , 2011, , .		7
43	Optical tomography: Image improvement using mixed projection of parallel and fan beam modes. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1970-1978.	2.5	7
44	A Study on Forward and Inverse Problems for an Ultrasonic Tomography. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.3	7
45	An Optical Tomography System Using a Digital Signal Processor. Sensors, 2008, 8, 2082-2103.	2.1	6
46	Optical tomography system based on charge-coupled device linear image sensors: Particle size measurement. Sensors and Actuators B: Chemical, 2011, 156, 572-577.	4.0	6
47	A Review of Tomography System. Jurnal Teknologi (Sciences and Engineering), 2013, 64, .	0.3	6
48	Non-invasive ultrasonic tomography: Liquid/gas flow visualization. , 2005, , .		5
49	Multiple Fan-Beam Optical Tomography: Modelling Techniques. Sensors, 2009, 9, 8562-8578.	2.1	5
50	Mathematical modelling of gas bubbles and oil droplets in liquid media using optical linear path projection. Flow Measurement and Instrumentation, 2010, 21, 388-393.	1.0	5
51	Magnetic Induction Tomography: Receiver Circuit and Its Design Criteria. Jurnal Teknologi (Sciences) Tj ETQq1 1 0.784314 rgBT /Over	0.3	5
52	Analysis of crude palm oil composition in a chemical process conveyor using Electrical Capacitance Tomography. Flow Measurement and Instrumentation, 2016, 50, 57-64.	1.0	5
53	CCD Optical Tomography System to Detect Solid Contamination in Crystal-Clear Water. IEEE Transactions on Industrial Electronics, 2020, 67, 3248-3256.	5.2	5
54	A Review of the Optical Tomography System. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	5

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55	Ultrasonic process tomographic imaging sensor: An approach utilising transceivers method. , 2008, , .		4
56	Simulation of Image Fusion of Dual Modality (Electrical Capacitance and Optical Tomography) in Solid/Gas Flow. Sensing and Imaging, 2010, 11, 33-50.	1.0	4
57	A Review of Process Tomography Application in Inspection System. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	4
58	Compatible Study on Utilizing Frequency for Non-Invasive Electrical Resistance Tomography Using COMSOL Multiphysics. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.3	4
59	Optical Tomography System: Digital Sensors for Masking Purpose in Parallel Beam Optical Tomography System. Sensor Letters, 2008, 6, 752-758.	0.4	4
60	Image Reconstruction for Solid Profile Measurement in ERT using Non-invasive Approach. Telkomnika (Telecommunication Computing Electronics and Control), 2017, 15, 1554.	0.6	4
61	Optical tomography system using microprocessor and ethernet controller–based data acquisition system. Sensor Review, 2010, 30, 124-129.	1.0	3
62	Visualization of recovered palm oil using portable ECT imager in extraction palm oil process. Flow Measurement and Instrumentation, 2013, 31, 61-68.	1.0	3
63	A Review of Ultrasonic Application on Non-destructive Testing Method for Concrete Structure. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	3
64	Hardware Development of Electrical Capacitance Tomography (ECT) System with Capacitance Sensor for Liquid Measurements. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.3	3
65	Simulation Study on Electrical Resistance Tomography using Metal Wall for Bubble Detection. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.3	3
66	Analysis on the Effect of Sensor Views in Image Reconstruction Produced by Optical Tomography System Using Charge-Coupled Device. IEEE Transactions on Image Processing, 2018, 27, 1689-1696.	6.0	3
67	Influence of Moisture Content in Rice on Radio Signal Strength Indicator Readings at 2.4GHz. , 2019, , .		3
68	Simulation of Radio Tomographic Imaging for Measurement Rice Moisture Content. , 2020, , .		3
69	Simulation of Single Channel Magnetic Induction Spectroscopy for Fetal Hypoxia Detection. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.3	3
70	A Review on Magnetic Induction Spectroscopy Potential for Fetal Acidosis Examination. Sensors, 2022, 22, 1334.	2.1	3
71	Statistical time energy based damage detection in steel plates using artificial neural networks. , 2009, , .		2
72	Simulation on using cross-correlation technique for two-phase liquid/gas flow measurement for Ultrasonic Transmission Tomography. , 2010, , .		2

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73	Sinogram concept approach in image reconstruction algorithm of a Computed Tomography System using MATLAB. , 2010, , .		2
74	Modeling of a charge coupled device based optical tomographic instrumentation system for particle sizing. Powder Technology, 2011, 212, 25-37.	2.1	2
75	Image Reconstruction Algorithms For Ultrasonic Tomography. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	2
76	Initial Study On Ultrasonic Tomography For Multiphase Flow Application. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.3	2
77	Initial Study on Optical Fiber Array to Produce Particle Size Information for Hydraulic Process. Arabian Journal for Science and Engineering, 2013, 38, 2193-2195.	1.1	2
78	Study of the Effect of Brightness After Penetration of Light from a Lens. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.3	2
79	Image Fusion Using Fuzzy Logic Pixel Fusion for Dual Modality Tomography System. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	2
80	Optical Tomography: The potential of mass flow rate in rice industry. Sensors and Actuators B: Chemical, 2015, 213, 508-514.	4.0	2
81	3D model simulation on magnetic induction spectroscopy for fetal acidosis detection using COMSOL multiphysics. AIP Conference Proceedings, 2016, , .	0.3	2
82	Charge-coupled device based on optical tomography system in detecting solid and transparent objects in non-flowing crystal clear water. Optik, 2017, 131, 813-825.	1.4	2
83	A Design and Development of a Wireless Sensor Network for Potential Monitoring and Localization. Journal of Electrical Engineering and Technology, 2020, 15, 2735-2743.	1.2	2
84	A New Method of Rice Moisture Content Determination Using Voxel Weighting-Based from Radio Tomography Images. Sensors, 2021, 21, 3686.	2.1	2
85	Front End Development Of Optical Tomography And Its Linearity. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	2
86	Two Microcontrollers Interaction Using C. , 2010, , .		1
87	The effect of parallel projection towards image performance. , 2011, , .		1
88	Initial Results On Medium Frequency Electromagnetic Field Penetration In Biological Soft Tissue. Jurnal Teknologi (Sciences and Engineering), 2012, , .	0.3	1
89	A study of a two phases medium in pipe vessel using gaussian filter method and k-NN classifier. Journal of Intelligent and Fuzzy Systems, 2013, 25, 635-641.	0.8	1
90	Application Study on Bubble Detection in a Metallic Bubble Column Using Electrical Resistance Tomography. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	1

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91	Study and Design of an Ultrasonic Flow Tomographic Front-End Multi Level Measurement System. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	1
92	SENSITIVITY MAPS RECONSTRUCTION FOR MAGNETIC INDUCTION TOMOGRAPHY MODALITY USING EXPERIMENTAL TECHNIQUE. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	1
93	Jaundice Assessement of Newborn Baby: A Short Review on Kramelâ€™s Rule and Magnetic Induction Spectroscopy. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.3	1
94	INSPECTION BY ULTRASONIC TOMOGRAPHY (UT) LEADING TREND IN WELDING JOINT MONITORING. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	1
95	DESIGN OF FLEXIBLE ELECTRICAL CAPACITANCE TOMOGRAPHY SENSOR. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT	0.3	1
96	A Review of Ultrasonic Tomography for Monitoring the Corrosion of Steel Pipes. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.3	1
97	ANALYSIS ON THE PERFORMANCE OF LED AND LASER DIODE WITH CHARGE COUPLED DEVICE (CCD) LINEAR SENSOR MEASURING DIAMETER OF OBJECT. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	1
98	Mobile Electrical Capacitance Tomography (ECT) Development for Liquid-Gas Flow Measurement. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.3	1
99	Digitalization of linear back projection algorithm for FPGA implementation. , 2016, , .		1
100	Development of image reconstruction using FPGA. , 2016, , .		1
101	Investigation Into Slow Scan Front-End Control of a Transmission Mode Ultrasonic System. IEEE Sensors Journal, 2017, 17, 5136-5142.	2.4	1
102	Optical tomography verification for single and mixed modalities. Sensors and Actuators A: Physical, 2017, 253, 10-26.	2.0	1
103	Device-Free Localization and Human Mapping for Ambient Assisted Living: Radio Map Approach. , 2019, , .		1
104	Gait Analysis and Mathematical Index-Based Health Management Following Anterior Cruciate Ligament Reconstruction. Applied Sciences (Switzerland), 2019, 9, 4680.	1.3	1
105	An Overview of Medical Applications in Meningitis Detection. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012156.	0.3	1
106	Online simulation to monitor multiphase flow using laser source as transmitter. Optik, 2021, 228, 166178.	1.4	1
107	Eminent Pixel Reconstruction Algorithm For Ultrasonic Tomography. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Over	0.3	1
108	Small Gas Component Detection using Ultrasonic Transmission-mode Tomography System. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	1

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109	Edge Detection Algorithm For Enhancement of Linear Back Projection Tomographic Images. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	1
110	Initial Study of a Wire Mesh Tomography Sensor for Liquid/Gas Component Investigation. Journal of Electrical Engineering and Technology, 2015, 10, 2205-2210.	1.2	1
111	SENSITIVITY MAP GENERATION FOR CONDUCTING STRATEGY IN ELECTRICAL RESISTANCE TOMOGRAPHY. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	1
112	Inline 3D Volumetric Measurement of Moisture Content in Rice Using Regression-Based ML of RF Tomographic Imaging. Sensors, 2022, 22, 405.	2.1	1
113	Tomographic imaging: multiple-fan-beam projection technique using optical fiber sensors. Optical Engineering, 2007, 46, 047004.	0.5	0
114	Optical tomography system using Digital Signal Processor: velocity profile measurement. International Journal of Signal and Imaging Systems Engineering, 2009, 2, 17.	0.6	0
115	Optical tomography: A new filter technique for post processing image. , 2012, , .		0
116	Measurement of the Content of Water Using Light Penetration. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.3	0
117	Gas Hold-Up Profiles Determination by means of Ultrasonic Transducer. Jurnal Teknologi (Sciences) Tj ETQq1 1 0.784314 rgBT /Overlo	0.3	0
118	SIMULATION STUDIES OF WAVES TRANSMISSION IN A STEEL-VESSEL ULTRASONIC TOMOGRAPHY SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	0
119	AN INITIAL STUDY ON A NON-INVASIVE ULTRASONIC TOMOGRAPHY FOR GLASS FIBRE REINFORCED EPOXY (GFRE) COMPOSITES PIPE. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	0
120	SIMULATION OF ELECTRODE FOR DUAL-MODALITY ELECTRICAL RESISTANCE TOMOGRAPHY AND ULTRASONIC TRANSMISSION TOMOGRAPHY FOR IMAGING TWO-PHASE LIQUID AND GAS. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlo	0.3	0
121	FPGA TECHNOLOGY IN PROCESS TOMOGRAPHY. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
122	A REVIEW OF APPLICATION ELECTRICAL RESISTANCE TOMOGRAPHY FOR ROOTED HERB TREE DETECTION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
123	THE OPPORTUNITY OF MAGNETIC INDUCTION TOMOGRAPHY MODALITY IN BREAST CANCER DETECTION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
124	UNDERWATER GROUND MAPPING FOR FLOOD DISASTER USING ULTRASONIC SENSOR. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
125	Forward problem studies of electrical resistance tomography system on concrete materials. AIP Conference Proceedings, 2017, , .	0.3	0
126	Modelling of ultrasound tomography technique for Glass Fibre Reinforced Epoxy (GFRE) composites liquid transportation pipeline. AIP Conference Proceedings, 2017, , .	0.3	0

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127	Feasibility analysis of microwave frequency to detect wood for potential microwave application. AIP Conference Proceedings, 2017, , .	0.3	0
128	Multivariate analysis of variance followed by descriptive discriminant analysis: An analysis of the acoustic treatments effect on mung beans' growth. AIP Conference Proceedings, 2018, , .	0.3	0
129	Cross-Talk Level of Mechanomyography Signal on Compartmental Forearm Muscle. Lecture Notes in Electrical Engineering, 2019, , 575-581.	0.3	0
130	Single Channel Magnetic Induction Measurement for Meningitis Detection. Lecture Notes in Mechanical Engineering, 2021, , 187-206.	0.3	0
131	Optimisation of Sensor Electrode Size for in Electrical Resistance Tomography Implementing Conducting Boundary Strategy. Journal of Physics: Conference Series, 2021, 1874, 012077.	0.3	0
132	Optical Tomography Experimental Setup: A Study On Reflection Effect. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.3	0
133	Simulative Study of Two-Phase Homogenous and Isotropic Media Imaging using Magnetic Induction Tomography. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	0
134	SIMULATION STUDY ON NON-HOMOGENOUS SYSTEM OF NON-INVASIVE ERT USING COMSOL MULTIPHYSICS. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	0
135	INITIAL STUDY ON MICROWAVE TECHNIQUE TO FIND THE RELATIONSHIP BETWEEN ATTENUATION OF MICROWAVE AND THICKNESS OF A SUBJECT. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	0
136	SIMULATIVE STUDIES ON ULTRASOUND INTERACTIONS FOR STEEL PIPE TRANSMISSION. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.3	0
137	Relative Localization Method of Wet Spot of Grain using Array of Passive RFID Tags. Journal of Physics: Conference Series, 2021, 2107, 012004.	0.3	0
138	Rice grain moisture sensing based on UHF RFID tag. AIP Conference Proceedings, 2022, , .	0.3	0