

Danny Smyl

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

509
citations

14
h-index

21
g-index

35
ext. papers

600
ext. citations

5.2
avg, IF

4.9
L-index

#	Paper	IF	Citations
35	Can Electrical Resistance Tomography be used for imaging unsaturated moisture flow in cement-based materials with discrete cracks?. <i>Cement and Concrete Research</i> , 2017 , 91, 61-72	10.3	45
34	A Parametric Level Set-Based Approach to Difference Imaging in Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 145-155	11.7	44
33	Modeling water absorption in concrete and mortar with distributed damage. <i>Construction and Building Materials</i> , 2016 , 125, 438-449	6.7	39
32	Detection and reconstruction of complex structural cracking patterns with electrical imaging. <i>NDT and E International</i> , 2018 , 99, 123-133	4.1	35
31	Quantitative electrical imaging of three-dimensional moisture flow in cement-based materials. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 1348-1358	4.9	34
30	B-Spline-Based Sharp Feature Preserving Shape Reconstruction Approach for Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2533-2544	11.7	33
29	Nonstationary Shape Estimation in Electrical Impedance Tomography Using a Parametric Level Set-Based Extended Kalman Filter Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 1894-1907	5.2	30
28	A comparison of methods to evaluate mass transport in damaged mortar. <i>Cement and Concrete Composites</i> , 2016 , 70, 119-129	8.6	22
27	Shape Reconstruction Using Boolean Operations in Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2954-2964	11.7	21
26	Three-Dimensional Electrical Impedance Tomography to Monitor Unsaturated Moisture Ingress in Cement-Based Materials. <i>Transport in Porous Media</i> , 2016 , 115, 101-124	3.1	20
25	B-Spline Level Set Method for Shape Reconstruction in Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1917-1929	11.7	18
24	Optimizing Electrode Positions in 2-D Electrical Impedance Tomography Using Deep Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 6030-6044	5.2	17
23	Electrical tomography for characterizing transport properties in cement-based materials: A review. <i>Construction and Building Materials</i> , 2020 , 244, 118299	6.7	17
22	Coupled digital image correlation and quasi-static elasticity imaging of inhomogeneous orthotropic composite structures. <i>Inverse Problems</i> , 2018 , 34, 124005	2.3	16
21	Shape-Driven Difference Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3801-3812	11.7	14
20	Less is often more: Applied inverse problems using hp-forward models. <i>Journal of Computational Physics</i> , 2019 , 399, 108949	4.1	13
19	Shape-Driven EIT Reconstruction Using Fourier Representations. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 481-490	11.7	11

18	An overview of 38 least squares based frameworks for structural damage tomography. <i>Structural Health Monitoring</i> , 2020 , 19, 215-239	4.4	10
17	Can the dual-permeability model be used to simulate unsaturated moisture flow in damaged mortar and concrete?. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2017 , 9, 54-66	0.6	9
16	A Multiscale Modelling Approach for Estimating the Effect of Defects in Unidirectional Carbon Fiber Reinforced Polymer Composites. <i>Materials</i> , 2019 , 12,	3.5	9
15	Damage Tomography as a State Estimation Problem: Crack Detection Using Conductive Area Sensors 2019 , 3, 1-4		9
14	Multiphase Conductivity Imaging With Electrical Impedance Tomography and B-Spline Level Set Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 9634-9644	5.2	8
13	Supershape Recovery From Electrical Impedance Tomography Data. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	8
12	Learning and correcting non-Gaussian model errors. <i>Journal of Computational Physics</i> , 2021 , 432, 110152	4.1	5
11	OpenQSEI: A MATLAB package for quasi static elasticity imaging. <i>SoftwareX</i> , 2019 , 9, 73-76	2.7	5
10	Invisibility and indistinguishability in structural damage tomography. <i>Measurement Science and Technology</i> , 2020 , 31, 024001	2	4
9	An Efficient Quasi-Newton Method for Nonlinear Inverse Problems via Learned Singular Values. <i>IEEE Signal Processing Letters</i> , 2021 , 28, 748-752	3.2	4
8	Stacked Elasticity Imaging Approach for Visualizing Defects in the Presence of Background Inhomogeneity. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 06018006	2.4	3
7	Fusing electrical and elasticity imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200194	3	2
6	Probabilistic cracking prediction via deep learned electrical tomography. <i>Structural Health Monitoring</i> , 147592172110372	4.4	2
5	Self-filtering electrical area sensors emerging from deep learning. <i>Measurement Science and Technology</i> , 2020 , 31, 065107	2	1
4	Supershape Augmented Reconstruction Method Based on Boolean Operations in Electrical Impedance Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	1
3	Structural engineering from an inverse problems perspective.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022 , 478, 20210526	2.4	0
2	Predicting strain and stress fields in self-sensing nanocomposites using deep learned electrical tomography. <i>Smart Materials and Structures</i> , 2022 , 31, 045024	3.4	0
1	Non-cooperative finite element games. <i>Applied Numerical Mathematics</i> , 2021 , 167, 273-280	2.5	

