

# Zhiru Yu

## List of Publications by Year in descending order

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23  
papers

200  
citations

1307594

7  
h-index

1281871

11  
g-index

23  
all docs

23  
docs citations

23  
times ranked

185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Through-Casing Hydraulic Fracture Evaluation by Induction Logging II: The Inversion Algorithm and Experimental Validations. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1189-1198.	6.3	35
2	Through-Casing Hydraulic Fracture Evaluation by Induction Logging I: An Efficient EM Solver for Fracture Detection. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1179-1188.	6.3	30
3	3-D MRI-Based Electrical Properties Tomography Using the Volume Integral Equation Method. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4802-4811.	4.6	27
4	Remote Imaging of Proppants in Hydraulic Fracture Networks Using Electromagnetic Methods: Results of Small-Scale Field Experiments. , 2016, , .		25
5	The Mixed-Order BCGS-FFT Method for the Scattering of Three-Dimensional Inhomogeneous Anisotropic Magnetodielectric Objects. IEEE Transactions on Antennas and Propagation, 2015, 63, 5709-5717.	5.1	19
6	A Mixed-Order Stabilized Bi-Conjugate Gradient FFT Method for Magnetodielectric Objects. IEEE Transactions on Antennas and Propagation, 2014, 62, 5647-5655.	5.1	17
7	Multiphysics Coupling of Dynamic Fluid Flow and Electromagnetic Fields for Subsurface Sensing. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2016, 1, 14-25.	2.2	13
8	Fast Simulation of Scattering Problem for Magnetodielectric Materials With General Anisotropy in Layered Media. IEEE Transactions on Antennas and Propagation, 2016, 64, 4785-4793.	5.1	9
9	Simulation of Electromagnetic Scattering of 3-D Inhomogeneous Biaxial Anisotropic Magnetodielectric Objects Embedded in Uniaxial Anisotropic Media by the Mixed-Order BCGS-FFT Method. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3745-3755.	4.6	7
10	Inverse Source Solver for a High Resolution Near Field Scanner in Microelectronic Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1495-1502.	2.5	6
11	Application of mixed order BCGS-FFT on contrast enhanced oil reservoir imaging. , 2014, , .		3
12	Application of BCGS-FFT and distorted born approximation for hydraulic fracturing detection and imaging. , 2015, , .		3
13	Three-dimensional MR reconstruction of high-contrast magnetic susceptibility by the variational born iterative method based on the magnetic field volume integral equation. Magnetic Resonance in Medicine, 2018, 79, 923-932.	3.0	2
14	A novel optimization strategy for the design of large tolerance circular waveguide septum polarizer. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	1
15	A three-dimensional BCGS-FFT method for inhomogeneous anisotropic scatterers with high dielectric and magnetic contrasts. , 2013, , .		1
16	Mixed order integral equation formulation for the scattering from large inhomogeneous anisotropic magnetodielectric objects. , 2014, , .		1
17	Contrast enhanced through casing hydraulic fractures mapping. , 2015, , .		1
18	Time-divided multi-channel technique for EM-TRM based object detection system in complex environment. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
19	An iterative least-square based technique for high resolution source reconstruction with phaseless near field scan data. , 2013, , .		0
20	A mixed order BCGS-FFT based fast 3D inverse electromagnetic scatterings for anisotropic objects. , 2015, , .		0
21	Bi-conjugate gradient FFT method for magnetodielectric objects in layered media. , 2015, , .		0
22	A fast volume integral equation solver for electromagnetic simulation with complex voxel based magnetodielectric human model in MRI applications. , 2015, , .		0
23	A volume integral equation method for MRI-based electrical properties tomography. , 2017, , .		0