Qing Huo Liu

List of Publications by Year in Descending Order

803 papers	**13,720** citations	**54** h-index	**80** g-index
1,015 ext. papers	**16,871** ext. citations	**3.6** avg, IF	**7.12** L-index

#	Paper	IF	Citations
803	Planar Array Diagnosis Based on Bayesian Learning with a Bernoulli-Gaussian Prior Model. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	
802	Characteristic Mode Analysis Based on Rayleigh Quotient Iteration. *IEEE Transactions on Microwave Theory and Techniques*, **2022**, 1-1	4.1	
801	A Hybrid Neural Network Electromagnetic Inversion Scheme (HNNEMIS) for Super-Resolution 3-Dimensional Microwave Human Brain Imaging. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	0
800	Reconstruction of three-dimensional objects in layered composite structures from multimode orbital angular momentum.. *Physical Review E*, **2022**, 105, 025302	2.4	1
799	A Back-fire to Forward Wide-Angle Beam Steering Leaky-wave Antenna Based on SSPPs. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	6
798	An efficient thin layer equivalent technique of SETD method for thermo-mechanical multi-physics analysis of electronic devices. *International Journal of Heat and Mass Transfer*, **2022**, 192, 122816	4.9	0
797	NMM Simulation of Electromagnetic Waves in Cylindrical Geometries with an Extremely Thin Vertical Layer. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	
796	3-D NMM Method for Fully Anisotropic and Nonreciprocal Media. *IEEE Transactions on Microwave Theory and Techniques*, **2022**, 1-1	4.1	
795	A Hybrid Born Iterative Bayesian Inversion Method for Electromagnetic Imaging of Moderate-Contrast Scatterers with Piecewise Homogeneities. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	
794	A Wideband Tangential Electric Field Probe and a New Calibration Kit for Near-Field Measurements. *IEEE Transactions on Microwave Theory and Techniques*, **2022**, 1-1	4.1	3
793	Orbital angular momentum spectrum of antenna vortex beam based on loop integration. *AIP Advances*, **2021**, 11, 115204	1.5	3
792	Spectral Element Method for the Elastic/Acoustic Waveguide Problem in Anisotropic Metamaterials. *IEEE Access*, **2021**, 9, 153824-153837	3.5	
791	Radiation Diagnosis of PCBs and ICs Using Array Probes and Phaseless Inverse Source Method With a Joint Regularization. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 1-1	4.1	1
790	. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 1-1	4.1	2
789	Surface Integral Equations for Low-Frequency Simulation in Well Logging Applications. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 3957-3965	4.9	2
788	Compact balanced tri-band superconducting band-pass filter using double square ring loaded resonators. *International Journal of RF and Microwave Computer-Aided Engineering*, **2021**, 31, e22530	1.5	
787	Domain decomposition based on the spectral element method for frequency-domain computational elastodynamics. *Science China Earth Sciences*, **2021**, 64, 388-403	4.6	

786	Mixed Nitsche's Method for Maxwell's Eigenvalue Problems. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 1-1	4.1	1
785	Multiparametric Electromagnetic Inversion of 3-D Anisotropic Objects Embedded in Layered Media Based on Mixed L_1-L_2 Norm Regularization. *IEEE Antennas and Wireless Propagation Letters*, **2021**, 20, 738-742	3.8	2
784	A Dual-Layer Filtering SIW Slot Antenna Utilizing Double Slot Coupling Scheme. *IEEE Antennas and Wireless Propagation Letters*, **2021**, 20, 1073-1077	3.8	2
783	Wideband Circularly Polarized Antenna Based on Ring Traveling Wave. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 3560-3565	4.9	
782	Visualization of gold nanoparticles formation in DC plasma-liquid systems. *Plasma Science and Technology*, **2021**, 23, 075504	1.5	1
781	Nonlinear Electromagnetic Inversion of Damaged Experimental Data by a Receiver Approximation Machine Learning Method. *IEEE Antennas and Wireless Propagation Letters*, **2021**, 20, 1185-1189	3.8	4
780	Frequency domain spectral element method for modelling poroelastic waves in 3-D anisotropic, heterogeneous and attenuative porous media. *Geophysical Journal International*, **2021**, 227, 1339-1353	2.6	0
779	Hybrid Reconstruction of Subsurface 3-D Objects Using FRTM and VBIM Enhanced by Monte Carlo Method. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 18, 213-217	4.1	5
778	A Hierarchical Bayesian Inversion Method for Electromagnetic Imaging of Inhomogeneous Objects With Piecewise Homogeneities. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 2903-2912	4.9	2
777	Fast Simulation of Electromagnetic Fields in Doubly Periodic Structures With a Deep Fully Convolutional Network. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 2921-2928	4.9	2
776	Volume Equivalent SBR Method for Electromagnetic Scattering of Dielectric and Composite Objects. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 2842-2852	4.9	2
775	Combination of FDTD With Analytical Methods for Simulating Elastic Scattering of 3-D Objects Outside a Fluid-Filled Borehole. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 5325-5334	8.1	
774	1-D Inversion of GREATEM Data by Supervised Descent Learning. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 1-5	4.1	3
773	Mixed Spectral Element Method for Electromagnetic Secondary Fields in Stratified Inhomogeneous Anisotropic Media. *IEEE Access*, **2021**, 9, 218-225	3.5	
772	High Selectivity Single Wideband and Quad-Band HTS Filters Using Novel Quad-Mode Resonators With Self-Coupled Structure. *IEEE Access*, **2021**, 9, 103194-103203	3.5	2
771	An Adaptive DGTD Algorithm Based on Hierarchical Vector Basis Functions. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	1
770	Explicit Semi-Analytical Expressions of Sensitivity Matrices for the Reconstruction of 1-D Planarly Layered TI Media Illuminated by 3-D Sources. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	
769	An Analytic Algorithm for Dipole Electromagnetic Field in Fully Anisotropic Planar-Stratified Media. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-12	8.1	2

768	All-dielectric orthogonal doublet cylindrical metalens in long-wave infrared regions. *Optics Express*, **2021**, 29, 3524-3532	3.3	1
767	The transport of a charged peptide through carbon nanotubes under an external electric field: a molecular dynamics simulation.. *RSC Advances*, **2021**, 11, 23589-23596	3.7	
766	Modeling Thin 3-D Material Surfaces Using a Spectral-Element Spectral-Integral Method With the Surface Current Boundary Condition. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	
765	Fast and Reliable Reconstruction of 3-D Arbitrary Anisotropic Objects Buried in Layered Media by Cascaded Inverse Solvers. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 1-5	4.1	
764	Inverse Artificial Neural Network for Multiobjective Antenna Design. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	8
763	Meta-surface loading broadband and high-aperture efficiency dual circularly polarized patch antenna. *International Journal of RF and Microwave Computer-Aided Engineering*, **2021**, 31, e22525	1.5	2
762	A Hybrid Loop-Tree FEBI Method for Low-Frequency Well Logging of 3-D Structures in Layered Media. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-9	8.1	
761	Embedded Design of Compact Broadband Omnidirectional Antenna With Quad-Polarization Diversity. *IEEE Antennas and Wireless Propagation Letters*, **2021**, 20, 18-22	3.8	1
760	An Adaptive High-Order Transient Algorithm to Solve Large-Scale Anisotropic Maxwell Equations. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	7
759	Quantitative Electromagnetic Inversion of Irregular Scatterers Based on a Three-Fold Hybrid Method. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	4
758	Realization of a Wideband Series-Fed 4 4-Element Waveguide Slot Array in the X-Band. *IEEE Access*, **2021**, 9, 83666-83675	3.5	2
757	Transmit Beampattern Synthesis for Frequency Diverse Array With Particle Swarm Frequency Offset Optimization. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 892-901	4.9	6
756	Acoustic impact of the human skull on transcranial photoacoustic imaging. *Biomedical Optics Express*, **2021**, 12, 1512-1528	3.5	4
755	A Combination of Mixed FETD Method and SPICE to Simulate Nonlinear Multiport Circuits. *IEEE Microwave and Wireless Components Letters*, **2021**, 31, 97-100	2.6	1
754	. *IEEE Photonics Technology Letters*, **2021**, 33, 135-138	2.2	10
753	Mixed Spectral-Element Methods for 3-D Maxwell Eigenvalue Problems With Bloch Periodic and Open Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 1547-1558	4.1	5
752	An autofocus method to reduce acoustic inhomogeneity in microwave-induced thermo-acoustic tomography based on basis pursuit. *Applied Physics Letters*, **2021**, 119, 023702	3.4	
751	Modeling Graphene-Based Plasmonic Waveguides by Mixed FEM With Surface Current Boundary Condition. *IEEE Photonics Technology Letters*, **2021**, 33, 735-738	2.2	1

750	Generalized Dechirp-Keystone Transform for Radar High-Speed Maneuvering Target Detection and Localization. *Remote Sensing*, **2021**, 13, 3367	5	3
749	Adaptive complex frequency with V-cycle GMRES for preconditioning 3D Helmholtz equation. *Geophysics*, **2021**, 86, T349-T359	3.1	1
748	Tailoring Third Harmonic Generation From Anapole Mode in a Metal-Dielectric Hybrid Nanoantenna. *IEEE Photonics Journal*, **2021**, 13, 1-6	1.8	1
747	Simulation of borehole acoustic wavefields in fractured media by combining the spectral-element method and linear-slip model. *Geophysics*, **2021**, 86, D177-D192	3.1	2
746	A Hybrid SESI Method for Electromagnetic Scattering by Objects in Multiregion Cylindrically Layered Media. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 3967-3975	4.1	4
745	Adaptive 27-point finite-difference frequency-domain method for wave simulation of 3D acoustic wave equation. *Geophysics*, **2021**, 86, T439-T449	3.1	1
744	Doubly mirror-induced electric and magnetic anapole modes in metal-dielectric-metal nanoresonators. *Optics Letters*, **2021**, 46, 576-579	3	7
743	Super-Resolution 3-D Microwave Imaging of Objects With High Contrasts by a Semijoin Extreme Learning Machine. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 1-1	4.1	3
742	SIE-DDM With Higher Order Hierarchical Vector Basis Functions for Solving Electromagnetic Problems on Multiscale Metallic Targets. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	0
741	High-Order Conformal Perfectly Matched Layer for the DGTD Method. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	0
740	Dual-Polarized Filtering Magneto-Electric Dipole Antenna Utilizing Intrinsic Highpass Filter Network and Integrated Lowpass Filter Network. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	9
739	3-D Numerical Mode Matching Method for Off-Centered Electromagnetic Well Logging Tools in Noncircular Vertical Borehole and Invasion Zones in Multilayered Media. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-13	8.1	1
738	Dual functionality metamaterial enables ultra-compact, highly sensitive uncooled infrared sensor. *Nanophotonics*, **2021**, 10, 1337-1346	6.3	5
737	Fusion Before Imaging Method for Heterogeneous Borehole Radar Subsurface Surveys. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	0
736	Measurement matrix uncertainty model-based microwave induced thermoacoustic sparse reconstruction in acoustically heterogeneous media. *Applied Physics Letters*, **2021**, 119, 263701	3.4	1
735	Preprocessing for characteristic mode tracking based on the correlation. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2020**, 33, e2759	1	1
734	A Method to Design Arbitrary-Way Multimodal OAM Generator. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 987-991	3.8	
733	Realization of Third-Order OAM Mode Using Ring Patch Antenna. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 7607-7611	4.9	5

732	Dual-Module NMM-IEM Machine Learning for Fast Electromagnetic Inversion of Inhomogeneous Scatterers With High Contrasts and Large Electrical Dimensions. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 6245-6255	4.9	18
731	*. IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 3219-3228	4.1	6
730	Microscopic Modeling of Metasurfaces by the Mixed Finite Element Numerical Mode-Matching Method. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 469-478	4.1	4
729	Imaging Hydraulic Fractures Under Energized Steel Casing by Convolutional Neural Networks. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 8831-8839	8.1	7
728	Magnetic Resonance-Electrical Properties Tomography by Directly Solving Maxwell's Curl Equations. *Applied Sciences (Switzerland)*, **2020**, 10, 3318	2.6	0
727	Approach on Joint Inversion of Electromagnetic and Acoustic Data Based on Structural Constraints. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 7672-7681	8.1	3
726	Modal Analysis of 2-D Material-Based Plasmonic Waveguides by Mixed Spectral Element Method With Equivalent Boundary Condition. *Journal of Lightwave Technology*, **2020**, 38, 3677-3686	4	6
725	Ultra-compact spoof surface plasmon polariton waveguides and notch filters based on double-sided parallel-strip lines. *Journal Physics D: Applied Physics*, **2020**, 53, 265502	3	10
724	Hybrid FEM-DDM and BEM-BoR for the Analysis of Multiscale Composite Structures. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 4753-4763	4.9	4
723	High-performance spoof surface plasmon polariton waveguides and splitters based on Greek-cross fractal units. *Journal Physics D: Applied Physics*, **2020**, 53, 235502	3	14
722	Antenna Beampattern With Range Null Control Using Weighted Frequency Diverse Array. *IEEE Access*, **2020**, 8, 50107-50117	3.5	4
721	*. IEEE Transactions on Antennas and Propagation*, **2020**, 68, 5524-5533	4.9	6
720	A Six-Port Dual-Function RF Device With Four-Element MIMO Antenna Array and Bandpass Filter Operations. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 4549-4559	4.9	7
719	Fast Exponentially Convergent Solution of Electromagnetic Scattering From Multilayer Concentric Magnetodielectric Cylinders by the Spectral Integral Method. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 2183-2193	4.1	4
718	A Modified Efficient KNN Method for Antenna Optimization and Design. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 6858-6866	4.9	18
717	Numerical simulation and dimension reduction analysis of electromagnetic logging while drilling of horizontal wells in complex structures. *Petroleum Science*, **2020**, 17, 645-657	4.4	8
716	Multiparametric Electromagnetic Inversion of 3-D Biaxial Anisotropic Objects Embedded in Layered Uniaxial Media Using VBIM Enhanced by Structural Consistency Constraint. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 4774-4785	4.9	10
715	Mixed Finite Element Method for Full-Wave Simulation of Bioelectromagnetism From DC to Microwave Frequencies. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 2765-2772	5	7

714	Stabilized DG-PSTD Method With Nonconformal Meshes for Electromagnetic Waves. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 4714-4726	4.9	14
713	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 3184-3193	4.9	4
712	Simulation of 3-D Electromagnetic Scattering and Inverse Scattering by Arbitrary Anisotropic Dielectric Objects Embedded in Layered Arbitrary Anisotropic Media. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 6473-6478	4.9	8
711	The Scaling Transformation Optics With Isotropic Medium. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 4688-4696	4.9	2
710	3-D Full-Wave Inversion of Helicopter Transient Electromagnetic Data in Frequency Domain. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 4928-4938	8.1	7
709	Retrieval of Composite Model Parameters for 3-D Microwave Imaging of Biaxial Objects by BCGS-FFT and PSO. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 1896-1907	4.1	2
708	Semisupervised Radial Basis Function Neural Network With an Effective Sampling Strategy. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 1260-1269	4.1	8
707	The formation mechanism of aqueous hydrogen peroxide in a plasma-liquid system with liquid as the anode. *European Physical Journal D*, **2020**, 74, 1	1.3	5
706	Hybrid Electromagnetic Inversion of 3-D Irregular Scatterers Embedded in Layered Media by VBIM and MET. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 8238-8243	4.9	3
705	Ultra-broadband wide-angle terahertz absorber realized by a doped silicon metamaterial. *Optics Communications*, **2020**, 471, 125835	2	20
704	A Phaseless Inverse Source Method (PISM) Based on Near-Field Scanning for Radiation Diagnosis and Prediction of PCBs. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 4151-4160	4.1	5
703	Enhancing third-harmonic generation by mirror-induced electric quadrupole resonance in a metal-dielectric nanostructure. *Optics Letters*, **2020**, 45, 5864-5867	3	2
702	Radial Basis Function Neural Network With Hidden Node Interconnection Scheme for Thinned Array Modeling. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 2418-2422	3.8	3
701	An Analytic Algorithm for Electromagnetic Field in Planar-Stratified Biaxial Anisotropic Formation. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 1644-1653	8.1	5
700	An FDTD Method for Fully Anisotropic Periodic Structures Impinged by Obliquely Incident Plane Waves. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 366-376	4.9	6
699	Adaptive Discontinuous Galerkin Modeling of Intrinsic Attenuation Anisotropy for Fluid-Saturated Porous Media. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 3113-3122	8.1	5
698	Selective light trapping of plasmonic stack metamaterials by circuit design. *Nanoscale*, **2020**, 12, 2057-2062	7.7	6
697	Fast Electromagnetic Inversion of Inhomogeneous Scatterers Embedded in Layered Media by Born Approximation and 3-D U-Net. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1677-1681	4.1	22

696	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 958-966	4.9	4
695	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 986-996	4.9	5
694	Carbon Nanotubes Enabling Highly Efficient Cell Apoptosis by Low-Intensity Nanosecond Electric Pulses via Perturbing Calcium Handling. *Small*, **2020**, 16, e1904047	11	9
693	. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1498-1502	4.1	5
692	Improved Beam-Scannable Ultra-Wideband Sparse Antenna Arrays by Iterative Convex Optimization Based on Raised Power Series Representation. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 5696-5701	4.9	3
691	Wideband Low-Frequency Design of Inductors and Wireless Power Transfer Coils Using the Mixed Finite-Element Time-Domain Method. *IEEE Microwave and Wireless Components Letters*, **2020**, 30, 709-712	2.6	4
690	A Reconfigurable Second-Order OAM Patch Antenna With Simple Structure. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 1531-1535	3.8	5
689	Efficient Third Harmonic Generation by Doubly Enhanced Electric Dipole Resonance in Metal-Based Silicon Nanodisks. *Journal of Lightwave Technology*, **2020**, 38, 6312-6320	4	2
688	The Efficient Hybrid Mixed Spectral Element Method With Surface Current Boundary Condition for Modeling 2.5-D Fractures and Faults. *IEEE Access*, **2020**, 8, 135339-135346	3.5	6
687	Fast Multiparametric Electromagnetic Full-Wave Inversion via Solving Contracting Scattering Data Equations Optimized by the 3-D MRF Model. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 4515-4527	4.1	3
686	A Hybrid CN-FDTD-SPICE Solver for Field-Circuit Analyses in Low-Frequency Wideband Problems. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2020**, 10, 1721-1728	1.7	2
685	A Four-Corner-Fed Slotted Waveguide Sparse Array for Near-Field Focusing. *IEEE Access*, **2020**, 8, 203048-203057	3.5	7
684	Bidirectional multi-mode microwave vortex beam generation enabled by spoof surface plasmon polaritons. *Applied Physics Letters*, **2020**, 117, 241601	3.4	11
683	Reducing Acoustic Inhomogeneity Based on Speed of Sound Autofocus in Microwave Induced Thermoacoustic Tomography. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 2206-2214	5	9
682	Unified Riemann solution for multi-physics coupling: Anisotropic poroelastic/elastic/fluid interfaces. *Journal of Computational Physics*, **2020**, 402, 108961	4.1	20
681	Mid- and Low-Latitude Ionospheric D Region Remote Sensing by Radio Atmospherics Part I: Forward Modeling and Field Measurement Validations. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1044-1054	4.9	1
680	3-D Electromagnetic Scattering and Inverse Scattering by Magnetodielectric Objects With Arbitrary Anisotropy in Layered Uniaxial Media. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1009-1022	4.9	12
679	A Fast Numerical Method for the Galvanic Measurement in Hydraulic Fracture Detection. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 947-957	4.9	3

678	Subsurface Reconstruction From GPR Data by 1-D DBIM and RTM in Frequency Domain. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 582-586	4.1	1
677	A simple implementation of PML for second-order elastic wave equations. *Computer Physics Communications*, **2020**, 246, 106867	4.2	9
676	Application of 2.5-D Finite Difference Method in Logging-While-Drilling Electromagnetic Measurements for Complex Scenarios. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 577-581	4.1	14
675	Efficient Inverse Extreme Learning Machine for Parametric Design of Metasurfaces. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 992-996	3.8	6
674	Ultra-Wideband Terahertz Absorption Using Dielectric Circular Truncated Cones. *IEEE Photonics Journal*, **2019**, 11, 1-7	1.8	8
673	Constructing dual-frequency OAM circular patch antenna using characteristic mode theory. *Journal of Applied Physics*, **2019**, 126, 064501	2.5	9
672	A Novel Transformation Optics-Based FDTD Algorithm for Fast Electromagnetic Analysis of Small Structures in a Large Scope. *IEEE Access*, **2019**, 7, 124750-124758	3.5	3
671	A Single-Layer SIW Slots Array Monopulse Antenna Excited by a Dual-Mode Resonator. *IEEE Access*, **2019**, 7, 131282-131288	3.5	14
670	Discontinuous Galerkin modeling of 3D arbitrary anisotropic Q. *Geophysics*, **2019**, 84, C295-C309	3.1	7
669	Full-anisotropic poroelastic wave modeling: A discontinuous Galerkin algorithm with a generalized wave impedance. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 346, 288-311	5.7	13
668	Broadband optical waveguide modulators based on strongly coupled hybrid graphene and metal nanoribbons for near-infrared applications. *Nanoscale*, **2019**, 11, 3229-3239	7.7	42
667	Substrate Integrated Plasmonic Waveguide for Microwave Bandpass Filter Applications. *IEEE Access*, **2019**, 7, 75957-75964	3.5	24
666	Spectral Numerical Mode Matching Method for Metasurfaces. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 2629-2639	4.1	8
665	Efficient and Accurate Electromagnetic Modeling of Triaxial Induction Responses From Multiscale Fractures for Well-Logging Applications. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2019**, 4, 20-28	1.5	8
664	3-D Implicit-Explicit Hybrid Finite Difference/Spectral Element/Finite Element Time Domain Method Without a Buffer Zone. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 5469-5476	4.9	14
663	A Krylov-Subspace-Based Exponential Time Integration Scheme for Discontinuous Galerkin Time-Domain Methods. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	2
662	Modal Proportion Analysis in Antenna Characteristic Mode Theory. *International Journal of Antennas and Propagation*, **2019**, 2019, 1-10	1.2	6
661	A Low-Profile and Stacked Patch Antenna for Pattern-Reconfigurable Applications. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 4830-4835	4.9	13

660	A Hybrid 3-D Electromagnetic Method for Induction Detection of Hydraulic Fractures Through a Tilted Cased Borehole in Planar Stratified Media. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 4568-4576	8.1	5
659	A New Strategy for Transformation Optics With Index-Only Media. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 4626-4635	4.9	2
658	Smart inverse design of graphene-based photonic metamaterials by an adaptive artificial neural network. *Nanoscale*, **2019**, 11, 9749-9755	7.7	50
657	A Two-Port Microwave Component With Dual-Polarized Filtering Antenna and Single-Band Bandpass Filter Operations. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 5590-5601	4.9	14
656	High-Sensitivity Refractive Index Sensors Using Coherent Perfect Absorption on Graphene in the Vis-NIR Region. *ACS Applied Nano Materials*, **2019**, 2, 3231-3237	5.6	13
655	An Efficient Mixed Finite-Element Time-Domain Method for Complex Electrically Small Problems. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 1285-1294	4.1	11
654	. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 1683-1687	4.1	8
653	Adaptive two-step Bayesian MIMO detectors in compound-Gaussian clutter. *Signal Processing*, **2019**, 161, 1-13	4.4	7
652	Influence of the pH value on the degradation of an azo dye of methyl orange by air discharge plasma. *Plasma Processes and Polymers*, **2019**, 16, 1800152	3.4	3
651	Green's function for anisotropic dispersive poroelastic media based on the Radon transform and eigenvector diagonalization. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2019**, 475, 20180610	2.4	3
650	Impacts of the murine skull on high-frequency transcranial photoacoustic brain imaging. *Journal of Biophotonics*, **2019**, 12, e201800466	3.1	11
649	Adaptive JSPA in distributed colocated MIMO radar network for multiple targets tracking. *IET Radar, Sonar and Navigation*, **2019**, 13, 410-419	1.4	18
648	. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 4591-4599	8.1	6
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