

Habibollah Abiri

List of Publications by Year in Descending Order

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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.

55
papers

602
citations

10
h-index

23
g-index

67
ext. papers

737
ext. citations

2.4
avg, IF

3.93
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 55 | Theoretical foundations for the evanescent mode oscillator (EMO) as a high-efficiency source of millimeter-wave and terahertz radiations. <i>Physics of Plasmas</i> , 2021 , 28, 113104 | 2.1 | |
| 54 | A novel approach to design a metallic cylindrical shell for optimizing the average RCS under TMz illumination. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 138, 153836 | 2.8 | |
| 53 | Bias-Free Silicon-Based Optical Single-Sideband Modulator Without 2nd-Order Sideband. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-16 | 1.8 | 2 |
| 52 | Mode Control Analysis and Large-Signal Design of a High-Power Terahertz Extended Interaction Oscillator. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 4048-4055 | 2.9 | 4 |
| 51 | Low-drift AM β M based optical single-sideband modulator without 2nd-order sideband with adjustable optical carrier-to-sideband ratio. <i>Optics Communications</i> , 2019 , 438, 126-131 | 2 | 9 |
| 50 | Analytical investigation of self-oscillating condition for resonant terahertz extended interaction oscillators. <i>Physics of Plasmas</i> , 2019 , 26, 053301 | 2.1 | 3 |
| 49 | A new design procedure for wide band Doherty power amplifiers. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 98, 181-190 | 2.8 | 5 |
| 48 | Criteria for Determining Maximum Theoretical Oscillating Frequency of Extended Interaction Oscillators for Terahertz Applications. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1564-1571 | 2.9 | 2 |
| 47 | Theoretical investigation of an ultra-low phase noise microwave oscillator based on an IF crystal resonator-amplifier and a microwave photonic frequency transposer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018 , 35, 1422 | 1.7 | 7 |
| 46 | Signal-to-noise ratio and capture effect of microwave photonic links operating under small- and large-signal modulations in random noise. <i>Optics Communications</i> , 2018 , 421, 30-40 | 2 | 2 |
| 45 | A new approach to design wide band power amplifiers by compensating parasitic elements of transistors. <i>AEU - International Journal of Electronics and Communications</i> , 2018 , 92, 1-7 | 2.8 | 4 |
| 44 | Anode shaping for rejection of π mode in relativistic A6 magnetron. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2017 , 51, 286-297 | 1.4 | 1 |
| 43 | Developing a Load-Line Concept to Study the Extended Interaction Oscillators. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3429-3436 | 2.9 | 8 |
| 42 | Accurate design of slot array with low side lobes and low cross polarization 2016 , | | 1 |
| 41 | Optimisation of doubly periodic arrays of three-dimensional metallic structures in free space and layered media. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 604-611 | 1.6 | |
| 40 | HIGH-GAIN PLANAR LENS ANTENNAS BASED ON TRANSFORMATION OPTICS AND SUBSTRATE-INTEGRATED WAVEGUIDE (SIW) TECHNOLOGY. <i>Progress in Electromagnetics Research C</i> , 2016 , 68, 45-55 | 0.9 | 2 |
| 39 | Five-Wave Equation for Small-Signal Analysis of Traveling-Wave Tubes Considering the Effects of Axial Periodicity of the Interaction Structure. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 2149-2155 | 2.9 | 1 |

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| 38 | . <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 1769-1778 | 1.3 | |
| 37 | Two-dimensional synthesis and optimization of a broadband shaped beam reflector antenna using IWO and PSO algorithms. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2015 , 25, 129-140 | 1.5 | 6 |
| 36 | Optimization of metamaterial structures for terahertz and microwave sensor applications. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 636-642 | 1.2 | 7 |
| 35 | Cosecant-squared pattern synthesis method for broadband-shaped reflector antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2014 , 8, 328-336 | 1.6 | 4 |
| 34 | Multi-sensor approach in vessel magnetic wake imaging. <i>Wave Motion</i> , 2014 , 51, 60-76 | 1.8 | 3 |
| 33 | Electromagnetic Fields Induced by the Motion of Di-Hull Bodies in a Conducting Fluid. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5257-5263 | 2 | 2 |
| 32 | Design of a Broadband Cosecant Squared Pattern Reflector Antenna Using IWO Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3895-3900 | 4.9 | 26 |
| 31 | Design of High-Gain Lens Antenna by Gradient-Index Metamaterials Using Transformation Optics. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 4074-4081 | 4.9 | 54 |
| 30 | Rotational Vector Addition Theorem and Its Effect on T-Matrix. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 3819-3825 | 4.9 | 3 |
| 29 | Design of conical DRH antennas for K and Ka frequency bands. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2011 , 21, 602-610 | 1.5 | 5 |
| 28 | Electromagnetic performance analysis of omega-type metamaterial radomes. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2011 , 21, 665-673 | 1.5 | 13 |
| 27 | Measurement of Ions Penetration Pattern in Point to Grid Atmospheric Corona Discharge. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 016001 | 1.4 | 3 |
| 26 | Measurement of Ions Penetration Pattern in Point to Grid Atmospheric Corona Discharge. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 016001 | 1.4 | 1 |
| 25 | Bandwidth Enhancement of Printed E-Shaped Slot Antennas Fed by CPW and Microstrip Line. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 1402-1407 | 4.9 | 76 |
| 24 | Thin Wideband Radar Absorbers. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 4051-4058 | 4.9 | 70 |
| 23 | Analysis of Frequency Selective Surfaces on Periodic Substrates Using Entire Domain Basis Functions. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 876-886 | 4.9 | 7 |
| 22 | Large Overlapping Subdomain Method of Moments for the Analysis of Frequency Selective Surfaces. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 2175-2187 | 4.1 | 3 |
| 21 | An electrothermal model for investigation of harmonic effects produced by power electronic devices on protection elements 2009 , | | 1 |

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|----|--|-----|-----|
| 20 | Eddy current and total power loss separation in the iron phosphates polyepoxy soft magnetic composites. <i>Materials & Design</i> , 2009 , 30, 3989-3995 | | 126 |
| 19 | ANALYSIS OF 2D PHOTONIC CRYSTAL CAVITIES USING A MULTI-SCATTERING APPROACH BASED ON WEIGHTED BESSEL FUNCTIONS. <i>Progress in Electromagnetics Research M</i> , 2008 , 3, 119-130 | 0.6 | 1 |
| 18 | Monopulse Cassegrain antenna design using evolutionary algorithms. <i>AEU - International Journal of Electronics and Communications</i> , 2008 , 62, 506-512 | 2.8 | 2 |
| 17 | Application of Fourier differential quadrature for the analysis of photonic crystals. <i>Communications in Numerical Methods in Engineering</i> , 2007 , 24, 1363-1372 | | 1 |
| 16 | Parametric study of novel types of dielectric resonator antennas based on fractal geometry. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2007 , 17, 416-424 | 1.5 | 21 |
| 15 | An Efficient Semi-Analytic Method for Analysis of 2-D Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2007 , 25, 644-649 | 4 | 1 |
| 14 | Optimization of tapering profile in IC-DFB and DBR lasers 2000 , 3944, 862 | | 2 |
| 13 | Orthogonal coupled-mode theory for rectangular dielectric waveguides 1999 , 3625, 165 | | |
| 12 | Effect of index tapering on characteristics of DFB and DBR lasers 1999 , 3625, 756 | | |
| 11 | A general transform for regularizing planar open waveguide dispersion relation. <i>Journal of Lightwave Technology</i> , 1997 , 15, 383-390 | 4 | 12 |
| 10 | Analysis of the "Crack characteristic signal" using a generalized scattering matrix representation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1997 , 45, 477-484 | 4.1 | 39 |
| 9 | Modeling of surface hairline-crack detection in metals under coatings using an open-ended rectangular waveguide. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1997 , 45, 2049-2057 | 4.1 | 47 |
| 8 | Electromagnetic Modeling of the Interaction of Cracks in Metallic Surfaces with Open-Ended Waveguides Using an Equivalent Magnetic Current 1996 , 719-726 | | 1 |
| 7 | Near-Field Analysis of Rectangular Waveguide Probes Used for Imaging 1996 , 727-732 | | 4 |
| 6 | . <i>Journal of Lightwave Technology</i> , 1995 , 13, 1780-1786 | 4 | 3 |
| 5 | Application of open-ended rectangular waveguides for detecting surface cracks 1995 , 2456, 269 | | |
| 4 | Computer assisted determination of K0- diagram in the vane-type coaxial magnetron. <i>Journal of Electromagnetic Waves and Applications</i> , 1994 , 8, 743-758 | 1.3 | |
| 3 | Optimization of first-order trapezoidal gratings used in DFB and DBR lasers 1993 , 1992, 216 | | |

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| 2 | Tapered corrugation for improving characteristics of DFB and DBR lasers. <i>Microwave and Optical Technology Letters</i> , 1992 , 5, 643-647 | 1.2 | 1 |
| 1 | Tunability of cascaded grating used in distributed feedback laser. <i>Microwave and Optical Technology Letters</i> , 1990 , 3, 372-375 | 1.2 | 1 |