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High-impedance electromagnetic surfaces with a forbidden frequency band

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#	Paper	IF	Citations
2304	Principles and techniques for making antennas small. 43-91		
2303	Design and practice of small antennas II. 266-370		
2302	Glossary. 409-458		
2301	Analysis of uniplanar electromagnetic band-gap (EBG) structures by the MoM/BI-RME method.		1
2300	Guest editorial: Electromagnetic crystal structures, design, synthesis, and applications. <b>1999</b> , 17, 1928-	1930	47
2299	A novel TEM waveguide using uniplanar compact photonic-bandgap (UC-PBG) structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1999</b> , 47, 2092-2098	4.1	213
2298	Guest Editorial. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1999</b> , 47, 2057-2058	4.1	33
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530	Design of 1-Bit Digital Subwavelength Metasurface Element for Sub-6 GHz Applications. <b>2020</b> ,	O
529	Constructive Near-Field Interference Effect in a Birdcage MRI Coil with an Artificial Magnetic Shield. <b>2020</b> , 13,	1
528	Simplified equivalent circuit approach for designing time-domain responses of waveform-selective metasurfaces. <b>2020</b> , 116, 171603	4
527	Removal of scan blindness of phased array antenna using fourth-order Hilbert curved EBG structure. <b>2020</b> , 34, 1617-1630	1
526	UPPER WLAN BAND NOTCHED UWB MONOPOLE ANTENNA USING COMPACT TWO VIA SLOT ELECTROMAGNETIC BAND GAP STRUCTURE. <b>2020</b> , 100, 161-171	5
525	Stacked frequency reconfigurable Yagi-like MIMO antenna system. <b>2020</b> , 14, 532-538	2
524	Parallel Plate Cavity Mode Suppression by Miniaturized 2.5-D Electromagnetic Bandgap Structure for Low Frequency Microwave Circuit. <b>2020</b> , 67, 3068-3072	1

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523	Microtrip-line-slot feed dual-band dual-mode element and array antenna based on mushroom structure. <b>2020</b> , 14, 656-661	1
522	. <b>2020</b> , 8, 99858-99869	4
521	Frequency reconfigurable Yagi-like MIMO antenna system with a wideband reflector. <b>2020</b> , 14, 586-592	1
520	3D-Printed Sievenpiper Metasurface Using Conductive Filaments. <b>2020</b> , 13,	6
519	Modulated Reactance Surfaces for Leaky-Wave Radiation Based on Complete Aperture Field Synthesis. <b>2020</b> , 68, 5463-5477	9
518	SLC-based AiP for Phased Array Applications. <b>2020</b> , 293-339	
517	A Dual-Band Circularly Polarized Antenna With a Dual-Band AMC Reflector for RFID Readers. <b>2020</b> , 19, 796-800	13
516	Microwave metamaterials: from exotic physics to novel information systems. <b>2020</b> , 21, 4-26	7
515	A Dual-Polarized Magneto-Electric Dipole Antenna Based on Printed Ridge Gap Waveguide Technology. <b>2020</b> , 68, 7589-7594	12
514	Independent Control of Copolarized Amplitude and Phase Responses via Anisotropic Metasurfaces. <b>2020</b> , 8, 1902126	17
513	Design of artificial magnetic conductor metasurfaces using generalized boundary conditions. <b>2020</b> , 34, 1502-1512	O
512	Dispersion-engineered wideband low-profile metasurface antennas. <b>2020</b> , 21, 27-38	3
511	Design of Heterogenous Two-Element Array Antenna on an Electrically Thick Substrate for High Isolation and Low Pattern Correlation Using Modal Difference in Radiation Patterns. <b>2020</b> , 10, 3916	1
510	Low specific absorption rate and gain-enhanced meandered bowtie antenna utilizing flexible dipole-like artificial magnetic conductor for medical application at 2.4 GHz. <b>2020</b> , 62, 3881-3889	7
509	Ultra-broadband visible and mid-infrared light absorber via magnetic dipole and surface plasmon resonances. <b>2020</b> , 220, 165142	2
508	First demonstration of machine-designed ultra-flat, low-cost directive antenna. <b>2020</b> , 10, 10506	2
507	Modeling and simulation of an antenna with optimized AMC reflecting layer for gain and front-to-back ratio enhancement for 5G applications. <b>2020</b> , 1492, 012006	2
506	Hexagonal ring electromagnetic band gap-based slot antenna for circular polarization and performance enhancement. <b>2020</b> , 62, 2576-2587	5

505	Design and Modeling of Hybrid Uniplanar Electromagnetic Bandgap Power Planes for Wide-Band Noise Suppression on Printed Circuit Boards. <b>2020</b> , 8, 31614-31621	2
504	Graphene-Based Composite Right/Left-Handed Leaky-Wave Antenna at Terahertz. <b>2020</b> , 15, 1199-1204	5
503	Isolation enhancement of densely packed array antennas with periodic MTM-photonic bandgap for SAR and MIMO systems. <b>2020</b> , 14, 183-188	39
502	Experimental demonstration of waveform-selective metasurface varying wireless communication characteristics at the same frequency band of 2.4 GHz. <b>2020</b> , 56, 160-162	6
501	Dual band bandpass filter based on substrate integrated waveguide loaded with mushroom resonators. <b>2020</b> , 62, 2226-2235	6
500	Temporal microwave ghost imaging using a reconfigurable disordered cavity. <b>2020</b> , 116, 054102	8
499	Analytical study of surface wave multiple refraction in boundary of a scalar impedance surface with a tensor impedance surface. <b>2020</b> , 30, e22139	1
498	Microstrip patch back radiation reduction using metamaterial superstrate. <b>2020</b> , 14, 158-164	2
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496	UWB circular cross slot AMC design for radiation improvement of UWB antenna. <b>2020</b> , 117, 153092	17
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492	Textile-Supported Wireless Energy Transfer. <b>2020</b> , 1-26	1
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486	A Concurrently Dual-Polarized, Simultaneous Transmit and Receive (STAR) Antenna. <b>2020</b> , 68, 5935-5944	11
485	Low-Profile Wideband Spiral Antenna With a Circular HIS Reflector Composed of Homogenous Fan-Shaped Patch Elements. <b>2020</b> , 68, 7219-7222	8
484	Structure of an Artificial Magnetic Conductor with a High Angular Stability of Resonance Frequency. <b>2020</b> , 65, 228-233	
483	Further realization of a flexible metamaterial-based antenna on indium nickel oxide polymerized palm fiber substrates for RF energy harvesting. <b>2021</b> , 13, 67-75	6
482	A compact flexible textile artificial magnetic conductor-based wearable monopole antenna for low specific absorption rate wrist applications. <b>2021</b> , 13, 119-125	6
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480	Dual band bandpass filter based on semi-circular mushroom loaded substrate integrated waveguide. <b>2021</b> , 63, 1112-1119	O
479	Miniaturized (127 to 154) GHz Dipole Arrays in 28 nm Bulk CMOS With Enhanced Efficiency. <b>2021</b> , 69, 1414-1426	6
478	Manipulation of Orbital Angular Momentum Spectrum Using Shape-Tailored Metasurfaces. <b>2021</b> , 9, 2001711	15
477	A Compact Highly Efficient 🛭 Section CRLH Antenna Loaded With Textile AMC for Wireless Body Area Network Applications. <b>2021</b> , 69, 648-657	12
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456	Dynamic Control of Ultrathin Electromagnetic Absorber Using Active High Impedance Metasurfaces. <b>2021</b> , 8,	О
455	. <b>2021</b> , 9, 98746-98753	
454	. <b>2021</b> , 9, 121654-121664	1
453	Circuit-on-Display: A Flexible, Invisible Hybrid Electromagnetic Sensor Concept. <b>2021</b> , 1, 550-559	1
452	Surface Wave Attenuation in Multilayer Structures With Lossy Media and Impedance Surfaces. <b>2021</b> , 9, 130627-130637	O

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441	A Gain Levelling Technique for On-Chip Antennas Based on Split-Ring Resonators. <b>2021</b> , 9, 90750-90756	4
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425	Integrated design of large and medium-sized low profile frequency reconfigurable antenna array. <b>2021</b> , 31, e22633	
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419	Finite Array Decomposition Domain Method Applied to Large Low Profile Metasurface-Based Antenna. <b>2021</b> ,	
418	A Low-Profile HF Meandered Dipole Antenna with a Ferrite-Loaded Artificial Magnetic Conductor. <b>2021</b> , 11, 2237	3
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410	Back-lobe mitigation of a compact DGS microstrip patch antenna using an artificial magnetic conductor surface. <b>2021</b> , 31, e22727	O
409	Continuous Resonance Tuning without Blindness by Applying Nonlinear Properties of PIN Diodes. <b>2021</b> , 21,	0
408	Miniaturization and Electromagnetic Reliability of Wearable Textile Antennas. 2021, 10, 994	6
407	A wideband, compact, high gain, low-profile, monopole antenna using wideband artificial magnetic conductor for off-body communications. 1-10	
406	A miniaturized wideband antenna using hybrid L/T-shaped metasurface structure. <b>2021</b> , 63, 2186-2191	2
405	Angularly tunable perfect absorption in graphene-mushroom hybrid structure for all angles. <b>2021</b> , 118, 161103	3
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392	Two-layer Meander Strip Line Step via EBG for Mutual Coupling Reduction in Printed MIMO Antenna. <b>2021</b> ,	
391	High power and immunity high Q PMC packaged dual notch high power suspended defected stripline filter. <b>2021</b> ,	
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387	Compact PIFA Antenna with High Gain and Low SAR Using AMC for WLAN/C-band/5G Applications. 1-11	4
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360	Low-profile Broadband Dual-polarization Dou-ble-layer Metasurface Antenna for 2G/3G/LTE Cellular Base-stations. <b>2021</b> , 1-1	5
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322	Compact Wideband Microstrip Patch Antenna based on High Impedance Surface. <b>2018</b> , 8, 3149-3152	3
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82	Design of a Quasi-TEM Waveguide for the High-Intensity-Field Measurement of the Field-Induced Metasurfaces. <b>2022</b> , 1-8	O
81	A Compact Wideband Low-Profile Metasurface Antenna Loaded With Patch-Via-Wall Structure. <b>2022</b> , 1-5	О
80	Rank-Full Arrays for 2-D Mirrored Aperture Synthesis. <b>2022</b> , 19, 1-5	1
79	A Single-Feed Wideband Circularly Polarized Dielectric Resonator Antenna Using Hybrid Technique With a Thin Metasurface. <b>2022</b> , 10, 90244-90253	О
78	Experimental Verification of Backscattering Protection in PTD-Symmetric Bifilar Edge Waveguides. <b>2022</b> , 1-1	О
77	Reconfigurable Intelligent Edges: Illuminating the Shadow Region in Wireless Networks. <b>2022</b> , 10, 101732-10	)17⁄48
76	Metasurface-Loaded Off-center Monopoles with Wideband Radiation Performance Using Characteristic Mode Analysis. <b>2022</b> , 1-1	О
75	Low-Profile and Wideband Unidirectional Antenna with Ferrite Loading for UHF Applications. 2022, 1-1	Ο
74	Multiple Stacks of Rotated Metal Strip Gratings for High-Gain Bandwidth Enhancement and Gain Control of Overlying Dipoles [Analysis by Asymptotic Strips Boundary Conditions. <b>2022</b> , 1-1	Ο

73	Low-scattering Dipole Antenna Using Mushroom-shaped Structure For Applications in Dual-band Shared-aperture Array. <b>2022</b> , 1-5	О
72	Ultra-Wideband Compact Millimeter-Wave Printed Ridge Gap Waveguide Directional Couplers for 5G Applications. <b>2022</b> , 10, 90706-90714	O
71	Enlarged Metaloop Antenna. <b>2022</b> ,	O
70	A 24-GHz Directional Button Antenna for Wireless Power Transfer on Human Arm. <b>2022</b> ,	2
69	Conditional Generative Adversarial Networks for Inverse Design of Multifunctional Metasurfaces. 2200110	O
68	Dual Band Absorber Based on Multilayer SSR. <b>2022</b> ,	O
67	A Brief Review on mm-Wave Antennas for 5G and Beyond Applications. 1-26	O
66	Pulse-Driven Self-Reconfigurable Meta-Antennas.	O
65	Optical magnetism and wavefront control by arrays of strontium atoms. <b>2022</b> , 4,	O
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63	Inverted Microstrip Gap Waveguide Coplanar EBG Filter for Antenna Applications. 2022, 11, 2951	O
62	High-Impedance Surface Backed Circular Patch Antenna for Wireless Communications. <b>2023</b> , 235-243	O
61	Wearable BLE Wireless Sensor Based on U-Shaped EBG Monopole Antenna. <b>2022</b> , 2022, 1-15	O
60	Low-Cost Antenna-Array-Based Metamaterials for Non-Invasive Early-Stage Breast Tumor Detection in the Human Body. <b>2022</b> , 12, 828	O
59	Elastomeric Textile Substrates to Design a Compact, Low <b>P</b> rofile AMC based Antenna for Medical and IoT Applications. <b>2022</b> , 1-1	0
58	High bandwidth and gain V-band antenna based on FSS for the future Wi-Fi. 2022,	O
57	Experimental Investigation on Absorption Power of Electromagnetic Wave Absorber Based on Patch Pattern. <b>2022</b> ,	0
56	A Metasurface based Electronically Steerable Compact Antenna System with Reconfigurable AMC Reflector Elements. <b>2022</b> , 105549	O

55	Bifunctional Integration Performed by a Broadband High-Efficiency Spin-Decoupled Metasurface. 2201955	O
54	Switchable edge-line coupler based on parity time-reversal duality symmetry. <b>2022</b> , 12,	Ο
53	Metallic Structures Based on Zinc Oxide Film for Enzyme Biorecognition. <b>2022</b> , 13, 1997	O
52	A Low-Profile Wideband Patch Antenna with Modified Parasitic Mushroom Structures on Nonperiodic AMC. <b>2022</b> , 1-5	O
51	47, 25-30	О
50	Angular and Polarization Stability of Broadband Reconfigurable Intelligent Surfaces of Binary Type. <b>2022</b> , 10, 126253-126268	O
49	Spectrally stable thermal emitters enabled by material-based high-impedance surfaces.	О
48	Reconfigurable transmissive metasurface synergizing dynamic and geometric phase for versatile polarization and wavefront manipulations. <b>2023</b> , 225, 111445	2
47	A Wideband Dual Circularly Polarized, Simultaneous Transmit and Receive (STAR) Antenna Array for Integrated Sensing and Communication in IoT. <b>2022</b> , 1-1	0
46	Leaky-Wave Structures and Techniques for Integrated Front-End Antenna Systems. <b>2022</b> , 1-30	O
45	Design of quad-band dipole over a quad-band Artificial Magnetic Conductor. 2022,	0
44	Analysis and Design of Tunable THz 1-D Leaky-Wave Antennas Based on Nematic Liquid Crystals. <b>2022</b> , 12, 11770	1
43	Applications of Metamaterials and Metasurfaces.	1
42	Design Of Unit Cells for Groove Gap Waveguide at Millimeter Wave Spectrum. 2022,	O
41	Introduction to DGS: The Concept and Evolution. 2022, 1-33	0
40	Millimeter-Wave Antenna-on-Display for 5G Mobile Devices. <b>2022</b> , 303-339	O
39	Design and fabrication of a multilayer metamaterial antenna with high-gain and good radiation patterns for WiFi and WiMAX applications.	О
38	Millimeter-Wave 5G Antenna-in-Package (AiP) for Mobile Applications. <b>2022</b> , 167-209	O

37	Cost-Effective and Compact Millimeter-Wave 5G Antenna Solutions. 2022, 263-302	О
36	Metamaterial-FSS for THz Applications. <b>2022</b> , 643-665	О
35	Perfect-Lens Theory Enables Metasurface Reflectors for Subwavelength Focusing. 2023, 19,	0
34	High performance antenna-on-chip inspired by SIW and metasurface technologies for THz band operation. <b>2023</b> , 13,	O
33	Overview of a miniaturized high-gain reflectarray antenna. 2022,	O
32	Polarization Insensitive Reconfigurable Artificial Magnetic Conductor for Wideband Applications. <b>2022</b> ,	O
31	Controlling surface waves with temporal discontinuities of metasurfaces. 2023,	0
30	A Low-Profile Wideband and Dual-Polarized Antenna with AMC Reflector. 2022,	O
29	Novel Uniplanar Electromagnetic Bandgap Structure for High Gain Antenna and Filter Designs. <b>2022</b> ,	0
28	A Compact and Flexible Dipole Antenna to be Integrated into Military Berets. 2022,	O
27	Metasurface-based realization of photonic time crystals. 2023, 9,	1
26	Realization of low-loss tunable metasurfaces based on a shunting interdigitated capacitance structure. <b>2023</b> , 47, 106329	O
25	Dual-Band, EBG-DGS Wearable Antenna for Emergency Services and Responses in WBAN. <b>2022</b> , 18, 1-10	0
24	Design of Wideband Bandpass Filter Based on Microstrip-Ridge Gap Waveguide. 2022,	O
23	A 126 GHz Low-Profile Wideband Antenna-in-Package with Non-Uniform Artificial Magnetic Conductor Surface. <b>2022</b> ,	0
22	Pulse-driven self-reconfigurable meta-antennas. <b>2023</b> , 14,	O
21	Perspective on Meta-Boundaries.	О
20	Design and Implementation of Circular Polarized Patch Antenna Using EBG Structure. <b>2022</b> ,	O

19	A Simple Frequency Selective Surface Based Reflector for UWB Applications. 2022,	О
18	MTM-EBG Loaded Circular Patch Antenna for ISM Band Applications. <b>2022</b> ,	O
17	Dual Band EBG with low SAR for wearable applications. <b>2022</b> ,	O
16	Implementation of Wideband Filter and High Gain Antenna Using Novel Uniplanar Electromagnetic Bandgap Structure for X-Band Applications. <b>2022</b> ,	O
15	AMC-Loaded Low-Profile Broadband Printed 20 Array With Gain and Isolation Enhancement Using Equivalent Circuit Model for Wireless Systems. <b>2023</b> , 11, 22007-22017	О
14	Reduced Loss and Prevention of Substrate Modes with a Novel Coplanar Waveguide Based on Gap Waveguide Technology. <b>2023</b> , 23, 2909	О
13	Notched Circular EBG based Circularly Polarized Antenna for Performance Enhancement. 2023, 22, 47-62	О
12	Mutual Coupling Reduction Between Two Element Antenna Using Parallel Lines with Triangular Grooves and Tapered End. <b>2022</b> ,	O
11	Gain stability improvement of a wideband antenna using an artificial magnetic conductor.	О
10	A Novel Compact Dual Band-Notched Antenna Design Based on Semicircular Split Ring Resonator Electromagnetic-Bandgap Structure. <b>2022</b> ,	O
9	Characteristic Mode Inspired Modal Manipulation Methods for Metasurface Antenna Design. 2022,	O
8	Non-Uniform Metasurface-Integrated Circularly Polarized End-Fire Dipole Array Antenna. <b>2023</b> , 23, 109-121	O
7	Effects of ground plane on a square graphene ribbon patch antenna designed on a high-permittivity substrate with PBG structures. <b>2023</b> ,	O
6	Reconfigurable Elastic Metamaterials: Engineering Dispersion with Beyond Nearest Neighbors. <b>2023</b> , 19,	O
5	Metamaterials for Antenna Applications. <b>2022</b> , 555-600	О
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3	A Compact Broadband Metasurface Antenna Using Parallel-plate Capacitive Loading. 2022,	O
2	Investigation of AFGSM Methods for Some Electromagnetic Bandgap Structures: From Analysis to Applied Antenna Design. <b>2023</b> , 11, 42234-42247	O

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