

Vasileios Ataloglou

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

794
citations

687363

13
h-index

1058476

14
g-index

25
all docs

25
docs citations

25
times ranked

706
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on metasurfaces. Journal of Optics (United Kingdom), 2019, 21, 073002.	2.2	146
2	Huygens's™ metasurfaces from microwaves to optics: a review. Nanophotonics, 2018, 7, 1207-1231.	6.0	143
3	Theory, design, and experimental verification of a reflectionless bianisotropic Huygens' metasurface for wide-angle refraction. Physical Review B, 2018, 97, .	3.2	128
4	A Leaky-Wave Antenna With Controlled Radiation Using a Bianisotropic Huygens's™ Metasurface. IEEE Transactions on Antennas and Propagation, 2019, 67, 108-120.	5.1	59
5	Design and Experimental Verification of a Passive Huygens's™ Metasurface Lens for Gain Enhancement of Frequency-Scanning Slotted-Waveguide Antennas. IEEE Transactions on Antennas and Propagation, 2019, 67, 4678-4692.	5.1	58
6	Bianisotropic Huygens's™ Metasurface for Wideband Impedance Matching Between Two Dielectric Media. IEEE Transactions on Antennas and Propagation, 2018, 66, 4729-4742.	5.1	50
7	Microwave Huygens's™ Metasurfaces: Fundamentals and Applications. IEEE Journal of Microwaves, 2021, 1, 374-388.	6.5	44
8	Omega-Bianisotropic Wire-Loop Huygens's™ Metasurface for Reflectionless Wide-Angle Refraction. IEEE Transactions on Antennas and Propagation, 2020, 68, 1477-1490.	5.1	31
9	Arbitrary Wave Transformations With Huygens's™ Metasurfaces Through Surface-Wave Optimization. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1750-1754.	4.0	31
10	Design of Compact Huygens's™ Metasurface Pairs With Multiple Reflections for Arbitrary Wave Transformations. IEEE Transactions on Antennas and Propagation, 2020, 68, 7382-7394.	5.1	29
11	Extreme Beam-Forming With Impedance Metasurfaces Featuring Embedded Sources and Auxiliary Surface Wave Optimization. IEEE Access, 2022, 10, 28670-28684.	4.2	23
12	Nonlinear coupled-mode-theory framework for graphene-induced saturable absorption in nanophotonic resonant structures. Physical Review A, 2018, 97, .	2.5	14
13	Static and Reconfigurable Huygens's™ Metasurfaces: Use in Antenna Beamforming and Beam Steering. IEEE Antennas and Propagation Magazine, 2022, 64, 73-84.	1.4	14
14	Surface-Waves Optimization for Beamforming with a Single Omega-bianisotropic Huygens' Metasurface. , 2020, , .		9
15	All-optical nanophotonic resonant element for switching and routing applications exploiting graphene saturable absorption. Journal of Applied Physics, 2020, 127, .	2.5	4
16	Recent Advances in Huygens's™ Metasurfaces. , 2018, , .		3
17	Realizing Antenna Arrays with Huygens's™ Metasurface Pairs Based on a Moment-Method-Like Design. , 2020, , .		2
18	Efficient Aperture Illumination and Beamforming with Huygens's™ Metasurfaces Exciting Surface Waves. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
19	Manipulating antenna radiation patterns with angle holography. , 2014, , .		1
20	Omega-bianisotropic Wire-Loop Huygensâ€™™ Metasurface for Wide-Angle Refraction. , 2019, , .		1
21	Perspectives on Huygensâ€™™ Metasurfaces for Antenna Beamforming. , 2020, , .		1
22	Huygens' Metasurfaces for Antenna Beamforming and Beamsteering. , 2022, , .		1
23	A Low-Complexity Detector for BPPM Systems Under Additive Gaussian Mixture Noise. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	0
24	A Unit Cell for Bianisotropic Huygens' Metasurface Designs. , 2018, , .		0
25	Multi-channel nonlinear interactions in practical graphene components. AIP Conference Proceedings, 2020, , .	0.4	0