Caner Guclu

List of Publications by Year
in descending order

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47	1,177	394286	526166
papers	citations	19 h-index	27 g-index

47	47	47	1227
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyperbolic Metamaterials at Microwaves With Stacked Inductive Coiled-Wire Arrays. IEEE Transactions on Antennas and Propagation, 2019, 67, 6494-6507.	3.1	1
2	Revisiting Orbital Angular Momentum Beams: Fundamentals, Reflectarray Generation, and Novel Antenna Applications. IEEE Antennas and Propagation Magazine, 2018, 60, 68-81.	1.2	67
3	Sharply Focused Azimuthally Polarized Beams with Magnetic Dominance: Near-Field Characterization at Nanoscale by Photoinduced Force Microscopy. ACS Photonics, 2018, 5, 390-397.	3.2	34
4	Cylindrical to rectangular coordinate transformation for planar phase front synthesis. IET Microwaves, Antennas and Propagation, 2018, 12, 814-819.	0.7	0
5	In pursuit of photo-induced magnetic and chiral microscopy. EPJ Applied Metamaterials, 2018, 5, 7.	0.8	5
6	Magnetic Nanoantennas Made of Plasmonic Nanoclusters for Photoinduced Magnetic Field Enhancement. Physical Review Applied, 2017, 8, .	1.5	20
7	Giant field enhancement in longitudinal epsilon-near-zero films. Physical Review B, 2017, 95, .	1.1	29
8	Enantiospecific Detection of Chiral Nanosamples Using Photoinduced Force. Physical Review Applied, 2017, 8, .	1.5	26
9	Electric field enhancement with plasmonic colloidal nanoantennas excited by a silicon nitride waveguide. Optics Express, 2016, 24, 28337.	1.7	20
10	Focused azimuthally polarized vector beam and spatial magnetic resolution below the diffraction limit. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2265.	0.9	28
11	Experimental Demonstration of Directive Si3N4 Optical Leaky Wave Antennas With Semiconductor Perturbations. Journal of Lightwave Technology, 2016, 34, 4864-4871.	2.7	16
12	Photoinduced Magnetic Nanoprobe Excited by an Azimuthally Polarized Vector Beam. ACS Photonics, 2016, 3, 2049-2058.	3.2	46
13	Photoinduced magnetic force between nanostructures. Physical Review B, 2015, 92, .	1.1	17
14	Vector vortex beam transmitarrays composed of split-ring slot elements. , 2015, , .		1
15	Uniform and non uniform optical leaky-wave antennas for field shaping. , 2015, , .		0
16	Vortex beams with strong longitudinally polarized magnetic field and their generation by using metasurfaces. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 345.	0.9	47
17	Experimental demonstration of directive Si3N4optical leaky wave antennas with semiconductor perturbations at near infrared frequencies. , 2015, , .		3
18	Large magnetic to electric field contrast in azimuthally polarized vortex beams generated by a metasurface (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	4

#	Article	IF	Citations
19	Optical Leaky Wave Antenna Experiment Demonstration and Electronic Modulation Investigation. , 2015, , .		2
20	Fano collective resonance as complex mode in a two-dimensional planar metasurface of plasmonic nanoparticles. Applied Physics Letters, 2014, 105, .	1.5	18
21	Optical leaky-wave antenna integrated in ring resonator. , 2014, , .		2
22	Array of dipoles near a hyperbolic metamaterial: Evanescent-to-propagating Floquet wave transformation. Physical Review B, 2014, 89, .	1.1	10
23	Infrared polarizing reflectarray metasurfaces. , 2014, , .		2
24	Theory of a Directive Optical Leaky Wave Antenna Integrated into a Resonator and Enhancement of Radiation Control. Journal of Lightwave Technology, 2014, 32, 1741-1749.	2.7	21
25	Radiative emission enhancement using nano-antennas made of hyperbolic metamaterial resonators. Applied Physics Letters, 2014, 105, .	1.5	36
26	Gyrotropic effects in hyperbolic metamaterials. , 2014, , .		0
27	Optical leaky wave antennas integrated with resonator topologies. , 2014, , .		0
28	Enhanced Magnetic and Electric Fields via Fano Resonances in Metasurfaces of Circular Clusters of Plasmonic Nanoparticles. ACS Photonics, 2014, 1, 254-260.	3.2	73
29	Grapheneâ€“dielectric composite metamaterials: evolution from elliptic to hyperbolic wavevector dispersion and the transverse epsilon-near-zero condition. Journal of Nanophotonics, 2013, 7, 073089.	0.4	88
30	Wideband Planar Transmission Line Hyperbolic Metamaterial for Subwavelength Focusing and Resolution. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4110-4117.	2.9	20
31	Graphene-based hyperbolic metamaterial. , 2013, , .		0
32	Fano resonances in metasurfaces made of linear trimers of plasmonic nanoparticles. Optics Letters, 2013, 38, 5216.	1.7	18
33	Studying dipole moment modification in a single fluorescent dye beside metallic Nano-Particle based on the Green's function theory. , 2013, , .		0
34	Subwavelength focusing and resolution with hyperbolic transmission line metamaterial. , 2013, , .		0
35	Graphene-based tunable hyperbolic metamaterials and enhanced near-field absorption. Optics Express, 2013, 21, 7614.	1.7	246
36	Concept of an optical leaky-wave antenna embedded in a Fabry-Pérot resonator. , 2013, , .		1

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37	Wave dynamics in a hyperbolic metamaterial excited by a two-dimensional periodic array of sources at its surface. , 2013, , .		0
38	An optical leaky wave antenna with Si perturbations inside a resonator for enhanced optical control of the radiation. Optics Express, 2012, 20, 21305.	1.7	31
39	Possible feeds of the HIS antenna without dipole on top. , 2012, , .		1
40	Radiation properties of an integrated optical leaky wave antenna with periodic silicon perturbations. , 2012, , .		0
41	Hyperbolic metamaterial as super absorber for scattered fields generated at its surface. Physical Review B, 2012, 86, .	1.1	98
42	Proof of Concept of a Dual-Band Circularly-Polarized RF MEMS Beam-Switching Reflectarray. IEEE Transactions on Antennas and Propagation, 2012, 60, 5451-5455.	3.1	107
43	High impedance layer for CMOS on-chip antenna at millimeter waves. , 2011, , .		6
44	Direct Use of the High Impedance Surface as an Antenna Without Dipole on Top. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1536-1539.	2.4	24
45	High impedance surface as an antenna without a dipole on top. , 2011, , .		6
46	Control of the radiation of a silicon-based optical leaky wave antenna through optical pumping. , 2011, , .		3
47	A comparison of metalayers based on arrayed pairs of planar conductors. , 2011, , .		0