

Caner Guclu

List of Publications by Year in descending order

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47
papers

1,177
citations

394286

19
h-index

526166

27
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47
all docs

47
docs citations

47
times ranked

1227
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-based tunable hyperbolic metamaterials and enhanced near-field absorption. Optics Express, 2013, 21, 7614.	1.7	246
2	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
3	Hyperbolic metamaterial as super absorber for scattered fields generated at its surface. Physical Review B, 2012, 86, .	1.1	98
4	Graphene-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
5	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
6	Revisiting Orbital Angular Momentum Beams: Fundamentals, Reflectarray Generation, and Novel Antenna Applications. IEEE Antennas and Propagation Magazine, 2018, 60, 68-81.	1.2	67
7	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
8	Photoinduced Magnetic Nanoprobe Excited by an Azimuthally Polarized Vector Beam. ACS Photonics, 2016, 3, 2049-2058.	3.2	46
9	Radiative emission enhancement using nano-antennas made of hyperbolic metamaterial resonators. Applied Physics Letters, 2014, 105, .	1.5	36
10	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
11	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
12	Giant field enhancement in longitudinal epsilon-near-zero films. Physical Review B, 2017, 95, .	1.1	29
13	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
14	Enantiospecific Detection of Chiral Nanosamples Using Photoinduced Force. Physical Review Applied, 2017, 8, .	1.5	26
15	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
16	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
17	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
18	Electric field enhancement with plasmonic colloidal nanoantennas excited by a silicon nitride waveguide. Optics Express, 2016, 24, 28337.	1.7	20

#	ARTICLE	IF	CITATIONS
19	Magnetic Nanoantennas Made of Plasmonic Nanoclusters for Photoinduced Magnetic Field Enhancement. <i>Physical Review Applied</i> , 2017, 8, .	1.5	20
20	Fano resonances in metasurfaces made of linear trimers of plasmonic nanoparticles. <i>Optics Letters</i> , 2013, 38, 5216.	1.7	18
21	Fano collective resonance as complex mode in a two-dimensional planar metasurface of plasmonic nanoparticles. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	18
22	Photoinduced magnetic force between nanostructures. <i>Physical Review B</i> , 2015, 92, .	1.1	17
23	Experimental Demonstration of Directive Si ₃ N ₄ Optical Leaky Wave Antennas With Semiconductor Perturbations. <i>Journal of Lightwave Technology</i> , 2016, 34, 4864-4871.	2.7	16
24	Array of dipoles near a hyperbolic metamaterial: Evanescent-to-propagating Floquet wave transformation. <i>Physical Review B</i> , 2014, 89, .	1.1	10
25	High impedance layer for CMOS on-chip antenna at millimeter waves. , 2011, , .		6
26	High impedance surface as an antenna without a dipole on top. , 2011, , .		6
27	In pursuit of photo-induced magnetic and chiral microscopy. <i>EPJ Applied Metamaterials</i> , 2018, 5, 7.	0.8	5
28	Large magnetic to electric field contrast in azimuthally polarized vortex beams generated by a metasurface (Presentation Recording). <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
29	Control of the radiation of a silicon-based optical leaky wave antenna through optical pumping. , 2011, , .		3
30	Experimental demonstration of directive Si ₃ N ₄ optical leaky wave antennas with semiconductor perturbations at near infrared frequencies. , 2015, , .		3
31	Optical leaky-wave antenna integrated in ring resonator. , 2014, , .		2
32	Infrared polarizing reflectarray metasurfaces. , 2014, , .		2
33	Optical Leaky Wave Antenna Experiment Demonstration and Electronic Modulation Investigation. , 2015, , .		2
34	Possible feeds of the HIS antenna without dipole on top. , 2012, , .		1
35	Concept of an optical leaky-wave antenna embedded in a Fabry-Pérot resonator. , 2013, , .		1
36	Vector vortex beam transmitarrays composed of split-ring slot elements. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Hyperbolic Metamaterials at Microwaves With Stacked Inductive Coiled-Wire Arrays. IEEE Transactions on Antennas and Propagation, 2019, 67, 6494-6507.	3.1	1
38	A comparison of metalayers based on arrayed pairs of planar conductors. , 2011, , .		0
39	Radiation properties of an integrated optical leaky wave antenna with periodic silicon perturbations. , 2012, , .		0
40	Graphene-based hyperbolic metamaterial. , 2013, , .		0
41	Studying dipole moment modification in a single fluorescent dye beside metallic Nano-Particle based on the Green's function theory. , 2013, , .		0
42	Subwavelength focusing and resolution with hyperbolic transmission line metamaterial. , 2013, , .		0
43	Wave dynamics in a hyperbolic metamaterial excited by a two-dimensional periodic array of sources at its surface. , 2013, , .		0
44	Gyrotropic effects in hyperbolic metamaterials. , 2014, , .		0
45	Optical leaky wave antennas integrated with resonator topologies. , 2014, , .		0
46	Uniform and non uniform optical leaky-wave antennas for field shaping. , 2015, , .		0
47	Cylindrical to rectangular coordinate transformation for planar phase front synthesis. IET Microwaves, Antennas and Propagation, 2018, 12, 814-819.	0.7	0