

Durdu A- GÃ¼ney

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

938
citations

471509
17
h-index

454955
30
g-index

43
all docs

43
docs citations

43
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchanging Ohmic Losses in Metamaterial Absorbers with Useful Optical Absorption for Photovoltaics. Scientific Reports, 2014, 4, 4901.	3.3	133
2	Reducing ohmic losses in metamaterials by geometric tailoring. Physical Review B, 2009, 80, .	3.2	84
3	Negative refraction gives rise to the Klein paradox. Physical Review A, 2009, 79, .	2.5	63
4	Intra-connected three-dimensionally isotropic bulk negative index photonic metamaterial. Optics Express, 2010, 18, 12348.	3.4	49
5	A new method of preparing highly conductive ultra-thin indium tin oxide for plasmonic-enhanced thin film solar photovoltaic devices. Solar Energy Materials and Solar Cells, 2016, 149, 250-257.	6.2	46
6	Plasmon Injection to Compensate and Control Losses in Negative Index Metamaterials. Physical Review Letters, 2015, 115, 035502.	7.8	42
7	Connected bulk negative index photonic metamaterials. Optics Letters, 2009, 34, 506.	3.3	39
8	Review of near-field optics and superlenses for sub-diffraction-limited nano-imaging. AIP Advances, 2016, 6, .	1.3	37
9	Multi-resonant silver nano-disk patterned thin film hydrogenated amorphous silicon solar cells for Staebler-Wronski effect compensation. Journal of Applied Physics, 2014, 116, .	2.5	34
10	Enhancement of photothermal heat generation by metallodielectric nanoplasmonic clusters. Optics Express, 2015, 23, A682.	3.4	34
11	Distillation of photon entanglement using a plasmonic metamaterial. Scientific Reports, 2016, 5, 18313.	3.3	29
12	Enhanced Faraday rotation in hybrid magneto-optical metamaterial structure of bismuth-substituted-iron-garnet with embedded-gold-wires. Journal of Applied Physics, 2016, 119, .	2.5	25
13	Surface plasmon driven electric and magnetic resonators for metamaterials. Physical Review B, 2011, 83, .	3.2	24
14	Quantum entanglement distillation with metamaterials. Optics Express, 2015, 23, 17941.	3.4	22
15	Tunable Room Temperature THz Sources Based on Nonlinear Mixing in a Hybrid Optical and THz Micro-Ring Resonator. Scientific Reports, 2015, 5, 9422.	3.3	22
16	Surface plasmon driven scalable low-loss negative-index metamaterial in the visible spectrum. Physical Review B, 2011, 84, .	3.2	21
17	Dual-band, double-negative, polarization-independent metamaterial for the visible spectrum. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2839.	2.1	20
18	Bringing the "perfect lens" into focus by near-perfect compensation of losses without gain media. New Journal of Physics, 2016, 18, 125004.	2.9	19

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19	Detailed effects of scattering and absorption by haze and aerosols in the atmosphere on the average point spread function of an imaging system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1312.	1.5	17
20	Limitations of ultra-thin transparent conducting oxides for integration into plasmonic-enhanced thin-film solar photovoltaic devices. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	3.6	17
21	Enhanced superlens imaging with loss-compensating hyperbolic near-field spatial filter. Optics Letters, 2018, 43, 1810.	3.3	15
22	Plasmonic Superlens Imaging Enhanced by Incoherent Active Convolved Illumination. ACS Photonics, 2018, 5, 1294-1302.	6.6	13
23	Reconstruction of images degraded by aerosol scattering and measurement noise. Optical Engineering, 2015, 54, 033101.	1.0	12
24	Plasmonic enhancement of amorphous silicon solar photovoltaic cells with hexagonal silver arrays made with nanosphere lithography. Materials Research Express, 2016, 3, 105034.	1.6	12
25	Hyperbolic Metamaterial as a Tunable Near-Field Spatial Filter to Implement Active Plasmon-Injection Loss Compensation. Physical Review Applied, 2018, 10, .	3.8	11
26	Plasmonic superlens image reconstruction using intensity data and equivalence to structured light illumination for compensation of losses. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2161.	2.1	11
27	Hyperbolic metamaterial feasible for fabrication with direct laser writing processes. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1013.	2.1	10
28	Analytical description of inverse filter emulating the plasmon injection loss compensation scheme and implementation for ultrahigh-resolution hyperlens. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1310.	2.1	10
29	Active plasmon injection scheme for subdiffraction imaging with imperfect negative index flat lens. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1478.	2.1	9
30	Quantum dynamics of a three-level trapped ion under a time-dependent interaction with laser beams. European Physical Journal D, 2013, 67, 1.	1.3	8
31	Ultra-Thin Metamaterial Beam Splitters. Applied Sciences (Switzerland), 2020, 10, 53.	2.5	8
32	Loss compensation in metamaterials and plasmonics with virtual gain [Invited]. Optical Materials Express, 2020, 10, 1862.	3.0	8
33	Scalable honeycomb top contact to increase the light absorption and reduce the series resistance of thin film solar cells. Optical Materials Express, 2019, 9, 256.	3.0	8
34	Optical Absorption in Nano-Structures: Classical and Quantum Models. ISRN Nanomaterials, 2013, 2013, 1-7.	0.7	6
35	Theory of coherent active convolved illumination for superresolution enhancement. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2452.	2.1	6
36	Estimating the image spectrum signal-to-noise ratio for imaging through scattering media. Optical Engineering, 2015, 54, 013102.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Enhancement of hydrogenated amorphous silicon solar cells with front-surface hexagonal plasmonic arrays from nanoscale lithography. Journal of Optics (United Kingdom), 2017, 19, 075901.	2.2	4
38	Effect of loss on linear optical quantum logic gates. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C153.	2.1	2
39	Nonreciprocal magneto-optic beam splitting. Optical Materials Express, 2022, 12, 885.	3.0	2
40	Adverse effect of material absorption on stopped light hollow waveguides with negative index metamaterial cladding. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 248.	2.1	1
41	Super-resolution enhancement with active convolved illumination and correlations. , 2019, , .		1
42	Light amplification in metamaterials by surface plasmon polariton injection. , 2014, , .		0
43	Spatial filtering of evanescent waves with rough multilayer hyperbolic metamaterials. , 2018, , .		0