

Durdu A- GÃ¼ney

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

938
citations

471061

17
h-index

454577

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. <i>Scientific Reports</i> , 2014, 4, 4901. | 1.6 | 133 |
| 2 | Reducing ohmic losses in metamaterials by geometric tailoring. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 84 |
| 3 | Negative refraction gives rise to the Klein paradox. <i>Physical Review A</i> , 2009, 79, . | 1.0 | 63 |
| 4 | Intra-connected three-dimensionally isotropic bulk negative index photonic metamaterial. <i>Optics Express</i> , 2010, 18, 12348. | 1.7 | 49 |
| 5 | A new method of preparing highly conductive ultra-thin indium tin oxide for plasmonic-enhanced thin film solar photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 250-257. | 3.0 | 46 |
| 6 | Plasmon Injection to Compensate and Control Losses in Negative Index Metamaterials. <i>Physical Review Letters</i> , 2015, 115, 035502. | 2.9 | 42 |
| 7 | Connected bulk negative index photonic metamaterials. <i>Optics Letters</i> , 2009, 34, 506. | 1.7 | 39 |
| 8 | Review of near-field optics and superlenses for sub-diffraction-limited nano-imaging. <i>AIP Advances</i> , 2016, 6, . | 0.6 | 37 |
| 9 | Multi-resonant silver nano-disk patterned thin film hydrogenated amorphous silicon solar cells for Staebler-Wronski effect compensation. <i>Journal of Applied Physics</i> , 2014, 116, . | 1.1 | 34 |
| 10 | Enhancement of photothermal heat generation by metallodielectric nanoplasmonic clusters. <i>Optics Express</i> , 2015, 23, A682. | 1.7 | 34 |
| 11 | Distillation of photon entanglement using a plasmonic metamaterial. <i>Scientific Reports</i> , 2016, 5, 18313. | 1.6 | 29 |
| 12 | Enhanced Faraday rotation in hybrid magneto-optical metamaterial structure of bismuth-substituted-iron-garnet with embedded-gold-wires. <i>Journal of Applied Physics</i> , 2016, 119, . | 1.1 | 25 |
| 13 | Surface plasmon driven electric and magnetic resonators for metamaterials. <i>Physical Review B</i> , 2011, 83, . | 1.1 | 24 |
| 14 | Quantum entanglement distillation with metamaterials. <i>Optics Express</i> , 2015, 23, 17941. | 1.7 | 22 |
| 15 | Tunable Room Temperature THz Sources Based on Nonlinear Mixing in a Hybrid Optical and THz Micro-Ring Resonator. <i>Scientific Reports</i> , 2015, 5, 9422. | 1.6 | 22 |
| 16 | Surface plasmon driven scalable low-loss negative-index metamaterial in the visible spectrum. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 21 |
| 17 | Dual-band, double-negative, polarization-independent metamaterial for the visible spectrum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2839. | 0.9 | 20 |
| 18 | Bringing the "perfect lens" into focus by near-perfect compensation of losses without gain media. <i>New Journal of Physics</i> , 2016, 18, 125004. | 1.2 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Detailed effects of scattering and absorption by haze and aerosols in the atmosphere on the average point spread function of an imaging system. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 1312. | 0.8 | 17 |
| 20 | Limitations of ultra-thin transparent conducting oxides for integration into plasmonic-enhanced thin-film solar photovoltaic devices. <i>Materials for Renewable and Sustainable Energy</i> , 2015, 4, 1. | 1.5 | 17 |
| 21 | Enhanced superlens imaging with loss-compensating hyperbolic near-field spatial filter. <i>Optics Letters</i> , 2018, 43, 1810. | 1.7 | 15 |
| 22 | Plasmonic Superlens Imaging Enhanced by Incoherent Active Convolved Illumination. <i>ACS Photonics</i> , 2018, 5, 1294-1302. | 3.2 | 13 |
| 23 | Reconstruction of images degraded by aerosol scattering and measurement noise. <i>Optical Engineering</i> , 2015, 54, 033101. | 0.5 | 12 |
| 24 | Plasmonic enhancement of amorphous silicon solar photovoltaic cells with hexagonal silver arrays made with nanosphere lithography. <i>Materials Research Express</i> , 2016, 3, 105034. | 0.8 | 12 |
| 25 | Hyperbolic Metamaterial as a Tunable Near-Field Spatial Filter to Implement Active Plasmon-Injection Loss Compensation. <i>Physical Review Applied</i> , 2018, 10, . | 1.5 | 11 |
| 26 | Plasmonic superlens image reconstruction using intensity data and equivalence to structured light illumination for compensation of losses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2161. | 0.9 | 11 |
| 27 | Hyperbolic metamaterial feasible for fabrication with direct laser writing processes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1013. | 0.9 | 10 |
| 28 | Analytical description of inverse filter emulating the plasmon injection loss compensation scheme and implementation for ultrahigh-resolution hyperlens. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1310. | 0.9 | 10 |
| 29 | Active plasmon injection scheme for subdiffraction imaging with imperfect negative index flat lens. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1478. | 0.9 | 9 |
| 30 | Quantum dynamics of a three-level trapped ion under a time-dependent interaction with laser beams. <i>European Physical Journal D</i> , 2013, 67, 1. | 0.6 | 8 |
| 31 | Ultra-Thin Metamaterial Beam Splitters. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 53. | 1.3 | 8 |
| 32 | Loss compensation in metamaterials and plasmonics with virtual gain [Invited]. <i>Optical Materials Express</i> , 2020, 10, 1862. | 1.6 | 8 |
| 33 | Scalable honeycomb top contact to increase the light absorption and reduce the series resistance of thin film solar cells. <i>Optical Materials Express</i> , 2019, 9, 256. | 1.6 | 8 |
| 34 | Optical Absorption in Nano-Structures: Classical and Quantum Models. <i>ISRN Nanomaterials</i> , 2013, 2013, 1-7. | 0.7 | 6 |
| 35 | Theory of coherent active convolved illumination for superresolution enhancement. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 2452. | 0.9 | 6 |
| 36 | Estimating the image spectrum signal-to-noise ratio for imaging through scattering media. <i>Optical Engineering</i> , 2015, 54, 013102. | 0.5 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Enhancement of hydrogenated amorphous silicon solar cells with front-surface hexagonal plasmonic arrays from nanoscale lithography. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 075901. | 1.0 | 4 |
| 38 | Effect of loss on linear optical quantum logic gates. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, C153. | 0.9 | 2 |
| 39 | Nonreciprocal magneto-optic beam splitting. <i>Optical Materials Express</i> , 2022, 12, 885. | 1.6 | 2 |
| 40 | Adverse effect of material absorption on stopped light hollow waveguides with negative index metamaterial cladding. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 248. | 0.9 | 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 |