

Babak Dastmalchi

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

425
citations

1040056

9
h-index

940533

16
g-index

20
all docs

20
docs citations

20
times ranked

983
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A New Perspective on Plasmonics: Confinement and Propagation Length of Surface Plasmons for Different Materials and Geometries. <i>Advanced Optical Materials</i> , 2016, 4, 177-184. | 7.3 | 107 |
| 2 | Graphene as an Electron Shuttle for Silver Deoxidation: Removing a Key Barrier to Plasmonics and Metamaterials for SERS in the Visible. <i>Advanced Functional Materials</i> , 2014, 24, 1864-1878. | 14.9 | 85 |
| 3 | Single and multilayer metamaterials fabricated by nanoimprint lithography. <i>Nanotechnology</i> , 2011, 22, 325301. | 2.6 | 65 |
| 4 | Ellipsometry as a Nondestructive Depth Profiling Tool for Roll-to-Roll Manufactured Flexible Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10817-10822. | 3.1 | 39 |
| 5 | Strong group-velocity dispersion compensation with phase-engineered sheet metamaterials. <i>Physical Review B</i> , 2014, 89, . | 3.2 | 28 |
| 6 | Optical activity in sub-wavelength metallic grids and fishnet metamaterials in the conical mount. <i>Optical Materials Express</i> , 2013, 3, 439. | 3.0 | 18 |
| 7 | Determining the internal quantum efficiency of organic Bulk Heterojunctions based on mono and bis-adduct fullerenes as acceptor. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3093-3098. | 6.2 | 17 |
| 8 | Oblique incidence ellipsometric characterization and the substrate dependence of visible frequency fishnet metamaterials. <i>Optics Express</i> , 2012, 20, 11166. | 3.4 | 15 |
| 9 | Enhancing Chemical and Optical Stability of Silver Nanostructures by Low-Temperature Hydrogen Atoms Processing. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23004-23012. | 3.1 | 15 |
| 10 | What is a good conductor for metamaterials or plasmonics. <i>Nanophotonics</i> , 2015, 4, 69-74. | 6.0 | 9 |
| 11 | Method of calculating local dispersion in arbitrary photonic crystal waveguides. <i>Optics Letters</i> , 2007, 32, 2915. | 3.3 | 8 |
| 12 | LOCAL DISPERSION OF GUIDING MODES IN PHOTONIC CRYSTAL WAVEGUIDE INTERFACES AND HETERO-STRUCTURES. <i>Progress in Electromagnetics Research B</i> , 2010, 26, 39-52. | 1.0 | 6 |
| 13 | Discontinuous design of negative index metamaterials based on mode hybridization. <i>Applied Physics Letters</i> , 2012, 101, 081913. | 3.3 | 5 |
| 14 | Optical Pattern Switching in Semiconductor Microresonators as All-Optical Switch. <i>ETRI Journal</i> , 2009, 31, 593-597. | 2.0 | 3 |
| 15 | Polarization-dependent optical excitation of gap plasmon polaritons through rectangular hole arrays. <i>Applied Physics Letters</i> , 2015, 106, . | 3.3 | 3 |
| 16 | Effect of Interface energy and electron transfer on shape, plasmon resonance and SERS activity of supported surfactant-free gold nanoparticles. <i>RSC Advances</i> , 2014, 4, 29660. | 3.6 | 2 |
| 17 | Optical patterns control in semiconductor microresonators in a far-field case. , 2006, 6352, 642. | | 0 |
| 18 | Study of local dispersion in photonic crystal waveguide interfaces and hetero-structures. , 2008, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 19 | Design and simulation of multi-functional layer double negative fishnet metamaterial at optical communication wavelength. , 2012, , . | | 0 |
| 20 | Surface plasmon polaritons and negative refraction in fishnet metamaterial. , 2014, , . | | 0 |