

# 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	What is a good conductor for metamaterials or plasmonics. <i>Nanophotonics</i> , 2015, 4, 69-74.	6.0	9
3	Polarization-dependent optical excitation of gap plasmon polaritons through rectangular hole arrays. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	3
4	Strong group-velocity dispersion compensation with phase-engineered sheet metamaterials. <i>Physical Review B</i> , 2014, 89, .	3.2	28
5	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
6	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
7	Surface plasmon polaritons and negative refraction in fishnet metamaterial. , 2014, , .		0
8	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
9	Oblique incidence ellipsometric characterization and the substrate dependence of visible frequency fishnet metamaterials. <i>Optics Express</i> , 2012, 20, 11166.	3.4	15
10	Design and simulation of multi-functional layer double negative fishnet metamaterial at optical communication wavelength. , 2012, , .		0
11	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
12	Discontinuous design of negative index metamaterials based on mode hybridization. <i>Applied Physics Letters</i> , 2012, 101, 081913.	3.3	5
13	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
14	Determining the internal quantum efficiency of organic Bulk Heterojunctions based on mono and bisâ€“adduct fullerenes as acceptor. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3093-3098.	6.2	17
15	Single and multilayer metamaterials fabricated by nanoimprint lithography. <i>Nanotechnology</i> , 2011, 22, 325301.	2.6	65
16	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
17	Optical Pattern Switching in Semiconductor Microresonators as All-Optical Switch. <i>ETRI Journal</i> , 2009, 31, 593-597.	2.0	3
18	Study of local dispersion in photonic crystal waveguide interfaces and hetero-structures. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
19	Method of calculating local dispersion in arbitrary photonic crystal waveguides. Optics Letters, 2007, 32, 2915.	3.3	8
20	Optical patterns control in semiconductor microresonators in a far-field case. , 2006, 6352, 642.		0