Bizhan Rashidian

List of Publications by Year
in descending order

61 papers	1,262 citations	471509 17 h-index	377865 34 g-index
61 all docs	61 docs citations	61 times ranked	980 citing authors

#	Article	IF	Citations
1	Near Field Differential Interference Contrast Microscopy. Scientific Reports, 2020, 10, 9644.	3.3	6
2	Monodimensional enlargement of resolved field of view in line scan cameras by a single doubly symmetric mirror. Optik, 2019, 182, 1-10.	2.9	2
3	A quantum description of linear, and non-linear optical interactions in arrays of plasmonic nanoparticles. Journal of Modern Optics, 2018, 65, 1235-1244.	1.3	1
4	Photothermal Heating Using a Near-Field Plasmonic Probe, Application in NFO-CVD. , 2018, , .		2
5	Exploiting the Ewald method for calculating the T-matrix of arbitrary periodic arrays. , 2018, , .		0
6	Geometrically Modified Einzel Lenses, From the Conventional Cylindrical Einzel Lens to Cubic and Continuous Einzel Lens. IEEE Transactions on Plasma Science, 2017, 45, 828-835.	1.3	2
7	Foveated scanning: dynamic monodimensional enlargement of resolved field of view in lenses of scanner systems. Applied Optics, 2016, 55, 7314.	2.1	2
8	An Analytical Formulation Enabling Analysis of Resonance Eigenmodes and Their Interferences in Scattering From Plasmonic Nanostructures, Applications in Engineering the Radiation Loss. IEEE Journal of Quantum Electronics, 2016, 52, 1-9.	1.9	1
9	Investigation of a quasi-3D plasmonic nanostructure for TE and TM polarizations. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2838.	2.1	2
10	Optimization of Sputtering Parameters for the Deposition of Low Resistivity Indium Tin Oxide Thin Films. Acta Metallurgica Sinica (English Letters), 2014, 27, 324-330.	2.9	10
11	Enhanced Optical Transmission Through Metallic Holes Array: Role of TE Polarization in SPP Excitation. Plasmonics, 2013, 8, 403-409.	3.4	6
12	A method for reducing the complexity, and increasing the accuracy ofÂfield emission electron gun simulations. Vacuum, 2013, 95, 50-65.	3.5	2
13	Behavior of plasmonic nanoparticle array in near- and far-field coupling regimes for transverse electric and transverse magnetic polarizations. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2286.	2.1	5
14	Approximate expressions for resonant shifts in the reflection of Gaussian wave packets from two-dimensional photonic crystal waveguides. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 683.	2.1	5
15	A Distributed Circuit Model for Side-Coupled Nanoplasmonic Structures With Metalâ€"Insulatorâ€"Metal Arrangement. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1692-1699.	2.9	23
16	A Design Procedure for Optimizing the LLC Resonant Converter as a Wide Output Range Voltage Source. IEEE Transactions on Power Electronics, 2012, 27, 3749-3763.	7.9	231
17	GPU IMPLEMENTATION OF SPLIT-FIELD FINITE-DIFFERENCE TIME-DOMAIN METHOD FOR DRUDE-LORENTZ DISPERSIVE MEDIA. Progress in Electromagnetics Research, 2012, 125, 55-77.	4.4	23
18	An Efficient Circuit Model for the Analysis and Design of Rectangular Plasmonic Resonators. Plasmonics, 2012, 7, 245-252.	3.4	18

#	ARTICLE	IF	CITATIONS
19	Single event upset immune latch circuit design using C-element. , 2011, , .		16
20	A possible anticancer drug delivery system based on carbon nanotubeâ€"dendrimer hybrid nanomaterials. Journal of Materials Chemistry, 2011, 21, 15456.	6.7	55
21	Comprehensive three-dimensional split-field finite-difference time-domain method for analysis of periodic plasmonic nanostructures: near- and far-field formulation. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2690.	2.1	23
22	Optimizing the Normalized Dead-Time and Maximum Switching Frequency of a Wide-Adjustable-Range LLC Resonant Converter. IEEE Transactions on Power Electronics, 2011, 26, 462-472.	7.9	177
23	Optimizing the LLCâ€"LC Resonant Converter Topology for Wide-Output-Voltage and Wide-Output-Load Applications. IEEE Transactions on Power Electronics, 2011, 26, 3192-3204.	7.9	62
24	A multi-bit error tolerant register file for a high reliable embedded processor. , 2011, , .		9
25	Using LLC Resonant Converter for Designing Wide-Range Voltage Source. IEEE Transactions on Industrial Electronics, 2011, 58, 1746-1756.	7.9	202
26	Fluorescent microscopy using localized excitation source with gold nanotriangles: A computational study. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 219-224.	2.0	1
27	Analysis of Third Harmonic Generation and Four Wave Mixing in Gold Nanostructures by Nonlinear Finite Difference Time Domain. Journal of Nanoscience and Nanotechnology, 2010, 10, 7179-7182.	0.9	2
28	Optical anisotropy of schwarzschild metric within equivalent medium framework. Optics Communications, 2010, 283, 1222-1228.	2.1	6
29	NOVEL METHOD FOR CANCER CELL APOPTOSIS BY LOCALIZED UV LIGHT WITH GOLD NANOSTRUCTURES: A THEORETICAL INVESTIGATION. Nano, 2010, 05, 325-332.	1.0	4
30	Designing an Adjustable Wide Range Regulated Current Source. IEEE Transactions on Power Electronics, 2010, 25, 197-208.	7.9	45
31	Wide adjustable range LLC resonant converter's maximum switching frequency for realizing the ZVS operation. , 2010, , .		6
32	Geometrical approach in physical understanding of the Goos-Haenchen shift in one- and two-dimensional periodic structures. Optics Letters, 2008, 33, 2940.	3.3	22
33	Plasmonic propagation modes of a structured two-dimensional conducting interface. Journal of Optics, 2008, 10, 025202.	1.5	8
34	Modified WKB method for solution of wave propagation in inhomogeneous structures with arbitrary permittivity and permeability profiles. , 2007, , .		0
35	Hermite Polynomial Expansion for Analysis of Electromagnetic Slow Waves in Coupled NANO Conducting Layer with Gaussian Profile. , 2007, , .		0
36	Modified WKB method for solution of wave propagation in inhomogeneous structures with arbitrary permittivity and permeability profiles. , 2007, , .		3

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37	Tight-Binding Analysis of Coupled Dielectric Waveguide Structures. Fiber and Integrated Optics, 2006, 25, 11-27.	2.5	2
38	Analytical Approach for Analysis of Nonuniform Lossy/Lossless Transmission Lines and Tapered Microstrips. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4122-4129.	4.6	18
39	Asymptotic behaviour of a subwavelength nanoconducting layer. Journal of Optics, 2006, 8, 639-646.	1.5	3
40	Forbidden Spatial Frequencies in Periodic Structures Composed of Subwavelength Nano Conducting Layers. , 2006, , .		0
41	Coupled Surface Electromagnetic Waves Supported by Subwavelength Nano Conducting Layers. , 2006, , .		0
42	Modified differential-transfer-matrix method for solution of one-dimensional linear inhomogeneous optical structures. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1521.	2.1	34
43	Band structures of coupled electromagnetic slow waves. Journal of Optics, 2004, 6, 937-942.	1.5	5
44	Novel optical slow wave structure and surface electromagnetic wave coupler with conducting interfaces. Semiconductor Science and Technology, 2004, 19, 890-896.	2.0	9
45	Polynomial expansion for extraction of electromagnetic eigenmodes in layered structures. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2434.	2.1	19
46	Optical modulation by surface states. Semiconductor Science and Technology, 2003, 18, 60-67.	2.0	9
47	Novel optical devices based on surface wave excitation at conducting interfaces. Semiconductor Science and Technology, 2003, 18, 582-588.	2.0	23
48	Interface electromagnetic waves between Kronig-Penney photonic crystals. , 2003, , .		5
49	Surface electromagnetic waves on dielectrics with conducting interfaces. , 2003, , .		5
50	Design and Analysis of the Integrated Plasma Wave Micro-Optical Modulator/Switch. Fiber and Integrated Optics, 2002, 21, 173-191.	2.5	10
51	Dynamics of interface traps in bonded silicon wafers. Semiconductor Science and Technology, 2002, 17, 421-426.	2.0	8
52	Addendum to `Generalized conditions for the existence of optical axes'. Journal of Optics, 2002, 4, 111-113.	1.5	4
53	<title>Analysis of Kronig-Penny photonic crystals by modified transfer matrices</title>. , 2002, 4655, 260.		6
54	Surface wave excitation control by using interface conductivity on one-dimensional photonic crystals. , 2002, , .		4

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55	Variational approach for extraction of eigenmodes in layered waveguides. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1978.	2.1	9
56	Modified transfer matrix method for conducting interfaces. Journal of Optics, 2002, 4, 251-256.	1.5	47
57	<title>Design and analysis of plasma-wave-based programmable grating</title>. , 2001, , .		3
58	New integrated optical memory based on the plasma wave modulator/switch. , 2001, , .		13
59	New integrated programmable optical diffractive element. , 2001, , .		9
60	Guided light propagation in dielectric slab waveguide with conducting interfaces. Journal of Optics, 2001, 3, 380-386.	1.5	28
61	Quantum mechanical analysis of a Muller effect plasma wave optical modulator/switch. , 1999, , .		7