Boris Apter

List of Publications by Year
in descending order

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50	572	687220	642610
papers	citations	13	23
		h-index	g-index

50	50	50	671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photon Recycling Effect and Lossless Fluorescence Propagation in Î²â€Sheet Peptide Fibers. Advanced Optical Materials, 2022, 10, 2102342.	3.6	2
2	Bioinspired materials: Physical properties governed by biological refolding. Applied Physics Reviews, 2022, 9, .	5.5	4
3	Foldâ€Sensitive Visible Fluorescence in Î²â€Sheet Peptide Structures. Advanced Optical Materials, 2021, 9, 2002247.	3.6	10
4	Amplified spontaneous emission and gain in highly concentrated Rhodamine-doped peptide derivative. Scientific Reports, 2021, 11, 17609.	1.6	6
5	Fluorescence Phenomena in Amyloid and Amyloidogenic Bionanostructures. Crystals, 2020, 10, 668.	1.0	17
6	Longâ€Range Fluorescence Propagation in Amyloidogenic Î²â€Sheet Films and Fibers. Advanced Optical Materials, 2020, 8, 2000056.	3.6	19
7	Light waveguiding in bioinspired peptide nanostructures. Journal of Peptide Science, 2019, 25, e3164.	0.8	6
8	Bioinspired Amyloid Nanodots with Visible Fluorescence. Advanced Optical Materials, 2019, 7, 1801400.	3.6	26
9	Peptide Integrated Optics. Advanced Materials, 2018, 30, 1705776.	11.1	35
10	Peptide Nanophotonics: From Optical Waveguiding to Precise Medicine and Multifunctional Biochips. Small, 2018, 14, e1801147.	5.2	34
11	Bioinspired Peptide-Based Photonic Integrated Devices. , 2018, , .		1
12	Peptide Optical waveguides. Journal of Peptide Science, 2017, 23, 95-103.	0.8	9
13	Preparation and study of doped ZnS thin films. Microelectronic Engineering, 2017, 170, 39-43.	1.1	20
14	Light propagation in peptide-based optical waveguides. , 2017, , .		0
15	Light-induced "plasmonic" properties of organic materials: surface polaritons, bistability and switching waves. , 2017, , .		0
16	Effect of phonon-plasmon and surface plasmon polaritons on photoluminescence in quantum emitter and graphene deposited on polar crystals. Journal of Applied Physics, 2016, 120, 124308.	1.1	16
17	Optical properties of bio-inspired peptide nanotubes. , 2016, , .		1
18	Linear and nonlinear optical waveguiding in bio-inspired peptide nanotubes. Acta Biomaterialia, 2016, 30, 72-77.	4.1	27

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19	In-situ investigation of optical transmittance in metal thin films. Thin Solid Films, 2015, 591, 261-266.	0.8	19
20	Modeling plasmonic efficiency enhancement in organic photovoltaics. Applied Optics, 2015, 54, 7957.	2.1	2
21	Optical emission spectroscopy of the sputtering process in the triode system. Radiation Effects and Defects in Solids, 2014, 169, 759-766.	0.4	0
22	Simulation and experimental investigation of optical transparency in gold island films. Optics Express, 2013, 21, 4126.	1.7	64
23	Non-Markovian theory of collective plasmon-molecule excitations in nanojunctions combined with classical electrodynamic simulations. , 2013, , .		1
24	Measuring Nanolayer Profiles of Various Materials by Evanescent Light Technique. Journal of Nanoscience and Nanotechnology, 2012, 12, 2668-2671.	0.9	4
25	Compensation of Coulomb Blocking and Energy Transfer in the Current Voltage Characteristic of Molecular Conduction Junctions. Nano Letters, 2012, 12, 2228-2232.	4.5	31
26	Ring-type plasmon resonance in metallic nanoshells. Applied Optics, 2011, 50, 5457.	2.1	9
27	Light absorption enhancement in thin silicon film by embedded metallic nanoshells: erratum. Optics Letters, 2011, 36, 1239.	1.7	2
28	Study of polyethylene nanolayers by evanescent light microscopy. Applied Physics A: Materials Science and Processing, 2011, 104, 997-1002.	1.1	1
29	Differential evanescent light intensity imaging of nanothin films: simulation of the scattered field. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2957-2960.	0.8	1
30	Light absorption enhancement in thin silicon film by embedded metallic nanoshells. Optics Letters, 2010, 35, 1139.	1.7	18
31	Design of integrated eye tracker-display device for head mounted systems. Proceedings of SPIE, 2009, , .	0.8	2
32	Study of LSPR-enhanced absorption for solar cell applications: preliminary results. , 2009, , .		0
33	Fast surface plasmon-polariton-based optical phase modulator. Proceedings of SPIE, 2009, , .	0.8	0
34	Resolution improvement of surface plasmon-enhanced, liquid crystal spatial light modulator: Simulation studies. Optics Communications, 2008, 281, 4788-4792.	1.0	6
35	Experimental study of an ultrasmall pixel, one-dimensional liquid-crystal device. Applied Optics, 2008, 47, 6315.	2.1	1
36	Computer simulation of liquid crystal spatial light modulator based on surface plasmon resonance. , 2007, , .		1

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37	Combined blazed grating/Gires-Tournois resonator for liquid crystal beam switching. Journal of Lightwave Technology, 2006, 24, 962-969.	2.7	2
38	Recent studies in LC devices and technology. , 2006, 6332, 105.		1
39	Low vision goggles: optical design studies. , 2006, , .		0
40	Electro-optical wide-angle beam deflection based on transversal-field-induced refractive inhomogeneity in a liquid crystal layer. , 2005, , .		0
41	Studies of fringing field effects in liquid crystal beam-steering devices. , 2005, , .		2
42	Experimental study of phase-step broadening by fringing fields in a three-electrode liquid-crystal cell. Applied Optics, 2005, 44, 2989.	2.1	4
43	A head-mounted, image transceiver-based, low vision aid. International Congress Series, 2005, 1282, 512-516.	0.2	0
44	Simple method for controlled variation of liquid crystal cell thickness. Optical Engineering, 2004, 43, 3021.	0.5	3
45	A CMOS/LCOS Image Transceiver Chip for Smart Goggle Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 269-273.	5.6	10
46	Fringing-field effect in liquid-crystal beam-steering devices: an approximate analytical model. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 1996.	0.8	38
47	On the fringing-field effect in liquid-crystal beam-steering devices. Applied Optics, 2004, 43, 11.	2.1	115
48	<title>LC-based subwavelength diffractive optical element structures for optical cross-connect applications</title>. , 2001, , .		0
49	<title>LC-beam steering device based on subwavelength diffractive optical element structure</title>. , 2001, 4294, 92.		2
50	Electrooptical wide-angle beam deflector based on fringing-field-induced refractive inhomogeneity in a liquid crystal layer. , 0, , .		0