

Carmel Rotschild

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,349
citations

361413

20
h-index

454955

30
g-index

50
all docs

50
docs citations

50
times ranked

1346
citing authors

#	ARTICLE	IF	CITATIONS
1	Solitons in Nonlinear Media with an Infinite Range of Nonlocality: First Observation of Coherent Elliptic Solitons and of Vortex-Ring Solitons. <i>Physical Review Letters</i> , 2005, 95, 213904.	7.8	562
2	Long-range interactions between optical solitons. <i>Nature Physics</i> , 2006, 2, 769-774.	16.7	340
3	Two-dimensional multipole solitons in nonlocal nonlinear media. <i>Optics Letters</i> , 2006, 31, 3312.	3.3	235
4	Nonlocal Surface-Wave Solitons. <i>Physical Review Letters</i> , 2007, 98, 213901.	7.8	146
5	Soliton dynamics and self-induced transparency in nonlinear nanosuspensions. <i>Optics Express</i> , 2007, 15, 10207.	3.4	108
6	Optical simulations of gravitational effects in the Newton-Schrödinger system. <i>Nature Physics</i> , 2015, 11, 872-878.	16.7	107
7	Dye alignment in luminescent solar concentrators: I Vertical alignment for improved waveguide coupling. <i>Optics Express</i> , 2010, 18, A79.	3.4	105
8	Boundary force effects exerted on solitons in highly nonlocal nonlinear media. <i>Optics Letters</i> , 2007, 32, 154.	3.3	102
9	Computer-generated real-time digital holography: first time use in clinical medical imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 845-849.	1.2	87
10	Adjustable spiral phase plate. <i>Applied Optics</i> , 2004, 43, 2397.	2.1	81
11	Incoherent spatial solitons in effectively instantaneous nonlinear media. <i>Nature Photonics</i> , 2008, 2, 371-376.	31.4	73
12	Dye alignment in luminescent solar concentrators: II Horizontal alignment for energy harvesting in linear polarizers. <i>Optics Express</i> , 2010, 18, A91.	3.4	64
13	Periodic solitons in nonlocal nonlinear media. <i>Optics Letters</i> , 2007, 32, 3209.	3.3	43
14	Interactions between spatial screening solitons propagating in opposite directions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 1354.	2.1	36
15	A path to practical Solar Pumped Lasers via Radiative Energy Transfer. <i>Scientific Reports</i> , 2015, 5, 14758.	3.3	35
16	Incoherent surface solitons in effectively instantaneous nonlocal nonlinear media. <i>Physical Review A</i> , 2009, 80, .	2.5	30
17	Optical beam instabilities in nonlinear nanosuspensions. <i>Optics Letters</i> , 2007, 32, 3185.	3.3	28
18	Optical Control of Thermocapillary Effects in Complex Nanofluids. <i>Physical Review Letters</i> , 2009, 103, 264503.	7.8	24

#	ARTICLE	IF	CITATIONS
19	Light-recycling within electronic displays using deep red and near infrared photoluminescent polarizers. <i>Energy and Environmental Science</i> , 2013, 6, 72-75.	30.8	24
20	Thermally enhanced photoluminescence for heat harvesting in photovoltaics. <i>Nature Communications</i> , 2016, 7, 13167.	12.8	20
21	Holography for imaging in structural heart disease. <i>EuroIntervention</i> , 2016, 12, X81-X84.	3.2	16
22	Cascaded Energy Transfer for Efficient Broadband Pumping of High-Quality, Micro-Lasers. <i>Advanced Materials</i> , 2011, 23, 3057-3060.	21.0	15
23	Random-phase surface-wave solitons in nonlocal nonlinear media. <i>Optics Letters</i> , 2007, 32, 2450.	3.3	14
24	Conservation of photon rate in endothermic photoluminescence and its transition to thermal emission. <i>Optica</i> , 2015, 2, 585.	9.3	10
25	Detailed Balance Limit of Efficiency of Broadband-Pumped Lasers. <i>Scientific Reports</i> , 2017, 7, 11497.	3.3	10
26	Guaranteed global optimization of thin-film optical systems. <i>New Journal of Physics</i> , 2019, 21, 073050.	2.9	10
27	Light-induced self-synchronizing flow patterns. <i>New Journal of Physics</i> , 2011, 13, 053021.	2.9	9
28	Luminescent Solar Power PV/Thermal Hybrid Electricity Generation for Cost-Effective Dispatchable Solar Energy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36040-36045.	8.0	7
29	Designing a Broadband Pump for High-Quality Micro-Lasers via Modified Net Radiation Method. <i>Scientific Reports</i> , 2016, 6, 38576.	3.3	4
30	Efficient incoherent pumping for high-Q micro-lasers. , 2012, , .		2
31	Thermally enhanced photoluminescence for energy harvesting: from fundamentals to engineering optimization. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 054002.	2.2	1
32	Solar-Powered Laser. , 2012, , .		1
33	Boundary force effects exerted on solitons in nonlinear media with a very large range of nonlocality. , 2006, , .		0
34	Infinite-range interactions between solitons in highly-nonlocal nonlinear media. , 2006, , .		0
35	Nonlocal surface-wave solitons. , 2007, , .		0
36	Solitons phenomena in highly nonlocal media: From soliton wiring and surface solitons to random-phase solitons and controlling solitons from afar. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007, , .	0.0	0

#	ARTICLE	IF	CITATIONS
37	Optical Control of Surface-Tension Effects in Complex Nanofluids. , 2009, , .		0
38	Complex nonlinear opto-fluidics: Controlling flow with light and vice-versa. , 2011, , .		0
39	Gravitational Phenomena Using Thermal Nonlinear Interactions. , 2014, , .		0
40	Observation of Gravitational Effects in Nonlocal Nonlinearity. , 2014, , .		0
41	Optical Wavepackets Overcoming Gravitational Effects. , 2015, , .		0
42	Random-Phase Surface-Wave Solitons in Nonlocal Nonlinear Media. , 2007, , .		0
43	Random-phase spatial solitons in effectively-instantaneous nonlocal nonlinear media. , 2007, , .		0
44	Complex Nonlinear Opto-Fluidity. , 2008, , .		0
45	Luminescent Solar Concentrators for Energy Harvesting in Displays. , 2009, , .		0
46	Complex dynamic Optofluidics: Symbiotic nonlinear controls, Self-pulsation, and Chaos. , 2009, , .		0
47	Incoherent Surface-Solitons in Effectively-Instantaneous Nonlinear Media. , 2009, , .		0
48	Luminescent Solar Concentrators: from optical heat pumps to solar pumped lasers. , 2010, , .		0
49	Thermal Lasing. , 2012, , .		0
50	Entropy Driven Multi-Photon Frequency Up-Conversion. , 2013, , .		0