

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	Luminescent Solar Powerâ€™PV/Thermal Hybrid Electricity Generation for Cost-Effective Dispatchable Solar Energy. ACS Applied Materials & Interfaces, 2020, 12, 36040-36045.	8.0	7
2	Guaranteed global optimization of thin-film optical systems. New Journal of Physics, 2019, 21, 073050.	2.9	10
3	Thermally enhanced photoluminescence for energy harvesting: from fundamentals to engineering optimization. Journal of Optics (United Kingdom), 2018, 20, 054002.	2.2	1
4	Detailed Balance Limit of Efficiency of Broadband-Pumped Lasers. Scientific Reports, 2017, 7, 11497.	3.3	10
5	Designing a Broadband Pump for High-Quality Micro-Lasers via Modified Net Radiation Method. Scientific Reports, 2016, 6, 38576.	3.3	4
6	Thermally enhanced photoluminescence for heat harvesting in photovoltaics. Nature Communications, 2016, 7, 13167.	12.8	20
7	Computer-generated real-time digital holography: first time use in clinical medical imaging. European Heart Journal Cardiovascular Imaging, 2016, 17, 845-849.	1.2	87
8	Holography for imaging in structural heart disease. EuroIntervention, 2016, 12, X81-X84.	3.2	16
9	A path to practical Solar Pumped Lasers via Radiative Energy Transfer. Scientific Reports, 2015, 5, 14758.	3.3	35
10	Conservation of photon rate in endothermic photoluminescence and its transition to thermal emission. Optica, 2015, 2, 585.	9.3	10
11	Optical simulations of gravitational effects in the Newtonâ€™SchrÃ¶dinger system. Nature Physics, 2015, 11, 872-878.	16.7	107
12	Optical Wavepackets Overcoming Gravitational Effects. , 2015, , .		0
13	Gravitational Phenomena Using Thermal Nonlinear Interactions. , 2014, , .		0
14	Observation of Gravitational Effects in Nonlocal Nonlinearity. , 2014, , .		0
15	Light-recycling within electronic displays using deep red and near infrared photoluminescent polarizers. Energy and Environmental Science, 2013, 6, 72-75.	30.8	24
16	Entropy Driven Multi-Photon Frequency Up-Conversion. , 2013, , .		0
17	Solar-Powered Laser. , 2012, , .		1
18	Thermal Lasing. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	Efficient incoherent pumping for high-Q micro-lasers. , 2012, , .		2
20	Complex nonlinear opto-fluidics: Controlling flow with light and vice-versa. , 2011, , .		0
21	Cascaded Energy Transfer for Efficient Broad-Band Pumping of High-Quality, Micro-Lasers. Advanced Materials, 2011, 23, 3057-3060.	21.0	15
22	Light-induced self-synchronizing flow patterns. New Journal of Physics, 2011, 13, 053021.	2.9	9
23	Dye alignment in luminescent solar concentrators: I Vertical alignment for improved waveguide coupling. Optics Express, 2010, 18, A79.	3.4	105
24	Dye alignment in luminescent solar concentrators: II Horizontal alignment for energy harvesting in linear polarizers. Optics Express, 2010, 18, A91.	3.4	64
25	Luminescent Solar Concentrators: from optical heat pumps to solar pumped lasers. , 2010, , .		0
26	Optical Control of Surface-Tension Effects in Complex Nanofluids. , 2009, , .		0
27	Optical Control of Thermocapillary Effects in Complex Nanofluids. Physical Review Letters, 2009, 103, 264503.	7.8	24
28	Incoherent surface solitons in effectively instantaneous nonlocal nonlinear media. Physical Review A, 2009, 80, .	2.5	30
29	Luminescent Solar Concentrators for Energy Harvesting in Displays. , 2009, , .		0
30	Complex dynamic Optofluidics: Symbiotic nonlinear controls, Self-pulsation, and Chaos. , 2009, , .		0
31	Incoherent Surface-Solitons in Effectively-Instantaneous Nonlinear Media. , 2009, , .		0
32	Incoherent spatial solitons in effectively instantaneous nonlinear media. Nature Photonics, 2008, 2, 371-376.	31.4	73
33	Complex Nonlinear Opto-Fluidity. , 2008, , .		0
34	Nonlocal surface-wave solitons. , 2007, , .		0
35	Solitons phenomena in highly nonlocal media: From soliton wiring and surface solitons to random-phase solitons and controlling solitons from afar. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
36	Boundary force effects exerted on solitons in highly nonlocal nonlinear media. Optics Letters, 2007, 32, 154.	3.3	102

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37	Random-phase surface-wave solitons in nonlocal nonlinear media. Optics Letters, 2007, 32, 2450.	3.3	14
38	Optical beam instabilities in nonlinear nanosuspensions. Optics Letters, 2007, 32, 3185.	3.3	28
39	Periodic solitons in nonlocal nonlinear media. Optics Letters, 2007, 32, 3209.	3.3	43
40	Soliton dynamics and self-induced transparency in nonlinear nanosuspensions. Optics Express, 2007, 15, 10207.	3.4	108
41	Nonlocal Surface-Wave Solitons. Physical Review Letters, 2007, 98, 213901.	7.8	146
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	Two-dimensional multipole solitons in nonlocal nonlinear media. Optics Letters, 2006, 31, 3312.	3.3	235
45	Long-range interactions between optical solitons. Nature Physics, 2006, 2, 769-774.	16.7	340
46	Boundary force effects exerted on solitons in nonlinear media with a very large range of nonlocality. , 2006, , .		0
47	Infinite-range interactions between solitons in highly-nonlocal nonlinear media. , 2006, , .		0
48	Solitons in Nonlinear Media with an Infinite Range of Nonlocality: First Observation of Coherent Elliptic Solitons and of Vortex-Ring Solitons. Physical Review Letters, 2005, 95, 213904.	7.8	562
49	Interactions between spatial screening solitons propagating in opposite directions. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1354.	2.1	36
50	Adjustable spiral phase plate. Applied Optics, 2004, 43, 2397.	2.1	81