Erâ€el Granot

List of Publications by Year
in descending order

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58 papers	335 citations	932766 10 h-index	996533 15 g-index
60 all docs	60 docs citations	60 times ranked	144 citing authors

#	Article	IF	Citations
1	Subwavelength spatial solitons. Optics Letters, 1997, 22, 1290.	1.7	30
2	Sub-wavelength non-local spatial solitons. Optics Communications, 1999, 166, 121-126.	1.0	25
3	Transition from the ballistic to the diffusive regime in a turbid medium. Optics Letters, 2011, 36, 1395.	1.7	24
4	On the existence of subwavelength spatial solitons. Optics Communications, 2000, 178, 431-435.	1.0	19
5	Generic pattern formation of sharp-boundaries pulses propagation in dispersive media. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 763.	0.9	15
6	Narrow spectral response of a Brillouin amplifier. Optics Letters, 2003, 28, 977.	1.7	14
7	Robust $${f{P}}{f{T}}$$ symmetry of two-dimensional fundamental and vortex solitons supported by spatially modulated nonlinearity. Scientific Reports, 2019, 9, 4483.	1.6	14
8	Brillouin cross-gain modulation and 10 m/s group velocity. Optics Letters, 2009, 34, 2832.	1.7	13
9	Emergence of currents as a transient quantum effect in nonequilibrium systems. Physical Review A, 2011, 84, .	1.0	12
10	Kilohertz laser frequency sensing with Brillouin mutually modulated cross-gain modulation. Optics Letters, 2011, 36, 4161.	1.7	10
11	Fundamental dispersion limit for spectrally bounded On-Off-Keying communication channels and its implications to Quantum Mechanics and the Paraxial Approximation. Europhysics Letters, 2012, 100, 44004.	0.7	10
12	Eigenstate suppressed activation. Physica B: Condensed Matter, 2015, 461, 140-146.	1.3	9
13	Role of quantum statistics in multi-particle decay dynamics. Annals of Physics, 2015, 355, 348-359.	1.0	9
14	Near-threshold-energy conductance of a thin wire. Physical Review B, 1999, 60, 10664-10667.	1.1	8
15	Point scatterers and resonances in low number of dimensions. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 31, 13-16.	1.3	7
16	Symmetry breaking and current patterns due to a weak imperfection. Physical Review B, 2000, 61, 11078-11082.	1.1	6
17	Quasi-ballistic imaging through a dynamic scattering medium with optical-field averaging using Spectral-Ballistic-Imaging. Optics Express, 2006, 14, 8598.	1.7	6
18	Narrow spectral response of a Brillouin generator. Optics Communications, 2006, 259, 328-330.	1.0	6

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19	Analytical Solutions for the Propagation of UltraShort and UltraSharp Pulses in Dispersive Media. Applied Sciences (Switzerland), 2019, 9, 527.	1.3	6
20	Affordable dispersion mitigation with an analog electrical filter. Applied Optics, 2016, 55, 7956.	2.1	6
21	Forbidden activation levels in a non-stationary tunneling process. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 397-401.	1.3	5
22	Nonlinear phase shifts of modulated light waves with slow and superluminal group delay in stimulated Brillouin scattering. Optics Letters, 2007, 32, 2689.	1.7	5
23	Effect of measurement on the ballisticâ€“diffusive transition in turbid media. Journal of Biomedical Optics, 2013, 18, 106006.	1.4	5
24	Destructive interferences results in bosons anti bunching: refining Feynmanâ€™s argument. European Physical Journal D, 2014, 68, 1.	0.6	5
25	The Tunnelling Current through Oscillating Resonance and the Sisyphus Effect. Advances in Condensed Matter Physics, 2017, 2017, 1-8.	0.4	5
26	Quasi-phase-matched generation of optical intensity waves. Optics Letters, 2006, 31, 2894.	1.7	4
27	Fibers vs. coax for RF delay line applications. , 2009, , .		4
28	Acceleration of trapped particles and beams. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 175005.	0.6	4
29	Affordable dispersion mitigation method for the next generation RF-over-fiber optical channels. Applied Optics, 2017, 56, 6777.	0.9	4
30	Analytical boundary-based method for diffraction calculations. Journal of Optics (United Kingdom), 2020, 22, 025601.	1.0	4
31	Fundamental limitations of dispersion mitigation filters. Optics Express, 2020, 28, 8240.	1.7	4
32	Propagation of chirped rectangular pulses in dispersive media: analytical analysis. Optics Letters, 2019, 44, 4745.	1.7	4
33	Enhanced photoinduced Ï‡^(2) in gamma-ray-irradiated bulk glass. Optics Letters, 2000, 25, 902.	1.7	3
34	Resonant tunnelling and the transition between quantum and classical domains. European Journal of Physics, 2006, 27, 985-993.	0.3	3
35	Dispersion compensation by a tunable all-optical signal regenerator. Optics Communications, 2007, 273, 121-126.	1.0	3
36	Trapping of quantum particles and light beams by switchable potential wells. Physical Review A, 2010, 82, .	1.0	3

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37	Generic propagation of beams with sharp spatial boundaries. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 678.	0.8	3
38	Spatial vibrations suppressing resonant tunneling. Physical Review A, 2020, 101, .	1.0	3
39	Graded transmission in a bent orifice. Physical Review B, 1999, 60, 14172-14176.	1.1	2
40	Stable two-dimensional soliton supported by a local nonlinearity. Physical Review B, 2000, 62, 2185-2187.	1.1	2
41	Enhanced Ï‡(3) in Î³-ray irradiated bulk glass. Optics Communications, 2001, 194, 213-216.	1.0	2
42	Short-time quantum dynamics of sharp boundaries potentials. Physica B: Condensed Matter, 2015, 459, 62-68.	1.3	2
43	Low-temperature magnetoconductance transition to Mott's conductance. Physical Review B, 1997, 55, 15828-15831.	1.1	1
44	Finite size and temperature corrections to the integer quantum Hall effect. Physica B: Condensed Matter, 2000, 292, 264-272.	1.3	1
45	State orthogonality, boson bunching parameter and bosonic enhancement factor. European Physical Journal D, 2016, 70, 1.	0.6	1
46	High accuracy analytical presentation of the propagation of chirped super-Gaussian pulses in dispersive media. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 085404.	0.6	1
47	PAM-Nâ€”Fundamental Limits in Chromatic Dispersive-Uncompensated Channels. Applied Sciences (Switzerland), 2021, 11, 2542.	1.3	1
48	Mitigating weak dispersion in affordable RF-over-fiber channels. Applied Optics, 2020, 59, 4105.	0.9	1
49	An Overlooked Scenario of "Reswitching" in the Austrian Structure of Production. Quarterly Journal of Austrian Economics, 2020, 22, 509-532.	0.5	1
50	Resonant-tunnelling conductance of a finite-size amorphous sample. Journal of Physics Condensed Matter, 1999, 11, 8547-8553.	0.7	0
51	Extinction ratio improvement by an all-optical signal regenerator with a semiconductor optical amplifier and a Sagnac loop. Optics Communications, 2006, 266, 80-87.	1.0	0
52	Quasi-phase-matching of intensity-waves. , 2006, , .		0
53	Impulse-response reconstruction of a scattering medium with the Kramers-Kronig method. , 2007, , .		0
54	Superluminal Brillouin amplification for sub-cycle interactions of modulated light. , 2007, , .		0

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55	On the spatial coordinate measurement of two identical particles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1719-1723.	0.9	0
56	Affordable real-time diffraction compensation in the spatial domain. Optik, 2017, 150, 99-110.	1.4	0
57	Modeling of optical fiber dispersion on QAM protocol in affordable RF-over-fiber channels. Applied Optics, 2021, 60, 2499.	0.9	0
58	Nonlinearity mitigation in RF-over-fiber links by chromatic dispersion modules. Optical Engineering, 2019, 58, 1.	0.5	0