

# 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	PAM-Nâ€™Fundamental Limits in Chromatic Dispersive-Uncompensated Channels. Applied Sciences (Switzerland), 2021, 11, 2542.	1.3	1
2	Modeling of optical fiber dispersion on QAM protocol in affordable RF-over-fiber channels. Applied Optics, 2021, 60, 2499.	0.9	0
3	Analytical boundary-based method for diffraction calculations. Journal of Optics (United Kingdom), 2020, 22, 025601.	1.0	4
4	Spatial vibrations suppressing resonant tunneling. Physical Review A, 2020, 101, .	1.0	3
5	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
6	Mitigating weak dispersion in affordable RF-over-fiber channels. Applied Optics, 2020, 59, 4105.	0.9	1
7	Fundamental limitations of dispersion mitigation filters. Optics Express, 2020, 28, 8240.	1.7	4
8	An Overlooked Scenario of "Reswitching" in the Austrian Structure of Production. Quarterly Journal of Austrian Economics, 2020, 22, 509-532.	0.5	1
9	Robust $\{P\}\{T\}$ symmetry of two-dimensional fundamental and vortex solitons supported by spatially modulated nonlinearity. Scientific Reports, 2019, 9, 4483.	1.6	14
10	Analytical Solutions for the Propagation of UltraShort and UltraSharp Pulses in Dispersive Media. Applied Sciences (Switzerland), 2019, 9, 527.	1.3	6
11	Propagation of chirped rectangular pulses in dispersive media: analytical analysis. Optics Letters, 2019, 44, 4745.	1.7	4
12	Nonlinearity mitigation in RF-over-fiber links by chromatic dispersion modules. Optical Engineering, 2019, 58, 1.	0.5	0
13	Affordable real-time diffraction compensation in the spatial domain. Optik, 2017, 150, 99-110.	1.4	0
14	Affordable dispersion mitigation method for the next generation RF-over-fiber optical channels. Applied Optics, 2017, 56, 6777.	0.9	4
15	The Tunnelling Current through Oscillating Resonance and the Sisyphus Effect. Advances in Condensed Matter Physics, 2017, 2017, 1-8.	0.4	5
16	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
17	State orthogonality, boson bunching parameter and bosonic enhancement factor. European Physical Journal D, 2016, 70, 1.	0.6	1
18	Affordable dispersion mitigation with an analog electrical filter. Applied Optics, 2016, 55, 7956.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Eigenstate suppressed activation. <i>Physica B: Condensed Matter</i> , 2015, 461, 140-146.	1.3	9
20	Role of quantum statistics in multi-particle decay dynamics. <i>Annals of Physics</i> , 2015, 355, 348-359.	1.0	9
21	Generic propagation of beams with sharp spatial boundaries. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 678.	0.8	3
22	Short-time quantum dynamics of sharp boundaries potentials. <i>Physica B: Condensed Matter</i> , 2015, 459, 62-68.	1.3	2
23	Destructive interferences results in bosons anti bunching: refining Feynman's argument. <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	5
24	Effect of measurement on the ballistic-diffusive transition in turbid media. <i>Journal of Biomedical Optics</i> , 2013, 18, 106006.	1.4	5
25	Fundamental dispersion limit for spectrally bounded On-Off-Keying communication channels and its implications to Quantum Mechanics and the Paraxial Approximation. <i>Europhysics Letters</i> , 2012, 100, 44004.	0.7	10
26	Generic pattern formation of sharp-boundaries pulses propagation in dispersive media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 763.	0.9	15
27	Transition from the ballistic to the diffusive regime in a turbid medium. <i>Optics Letters</i> , 2011, 36, 1395.	1.7	24
28	Kilohertz laser frequency sensing with Brillouin mutually modulated cross-gain modulation. <i>Optics Letters</i> , 2011, 36, 4161.	1.7	10
29	Emergence of currents as a transient quantum effect in nonequilibrium systems. <i>Physical Review A</i> , 2011, 84, .	1.0	12
30	Acceleration of trapped particles and beams. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 175005.	0.6	4
31	Trapping of quantum particles and light beams by switchable potential wells. <i>Physical Review A</i> , 2010, 82, .	1.0	3
32	Brillouin cross-gain modulation and 10 m/s group velocity. <i>Optics Letters</i> , 2009, 34, 2832.	1.7	13
33	Fibers vs. coax for RF delay line applications. , 2009, , .		4
34	Impulse-response reconstruction of a scattering medium with the Kramers-Kronig method. , 2007, , .		0
35	Superluminal Brillouin amplification for sub-cycle interactions of modulated light. , 2007, , .		0
36	Nonlinear phase shifts of modulated light waves with slow and superluminal group delay in stimulated Brillouin scattering. <i>Optics Letters</i> , 2007, 32, 2689.	1.7	5

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37	Dispersion compensation by a tunable all-optical signal regenerator. Optics Communications, 2007, 273, 121-126.	1.0	3
38	Quasi-phase-matched generation of optical intensity waves. Optics Letters, 2006, 31, 2894.	1.7	4
39	Quasi-ballistic imaging through a dynamic scattering medium with optical-field averaging using Spectral-Ballistic-Imaging. Optics Express, 2006, 14, 8598.	1.7	6
40	Narrow spectral response of a Brillouin generator. Optics Communications, 2006, 259, 328-330.	1.0	6
41	Point scatterers and resonances in low number of dimensions. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 31, 13-16.	1.3	7
42	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
43	Resonant tunnelling and the transition between quantum and classical domains. European Journal of Physics, 2006, 27, 985-993.	0.3	3
44	Quasi-phase-matching of intensity-waves. , 2006, , .		0
45	Narrow spectral response of a Brillouin amplifier. Optics Letters, 2003, 28, 977.	1.7	14
46	Forbidden activation levels in a non-stationary tunneling process. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 397-401.	1.3	5
47	Enhanced $\chi^{(3)}$ in $\gamma$ -ray irradiated bulk glass. Optics Communications, 2001, 194, 213-216.	1.0	2
48	On the existence of subwavelength spatial solitons. Optics Communications, 2000, 178, 431-435.	1.0	19
49	Finite size and temperature corrections to the integer quantum Hall effect. Physica B: Condensed Matter, 2000, 292, 264-272.	1.3	1
50	Stable two-dimensional soliton supported by a local nonlinearity. Physical Review B, 2000, 62, 2185-2187.	1.1	2
51	Symmetry breaking and current patterns due to a weak imperfection. Physical Review B, 2000, 61, 11078-11082.	1.1	6
52	Enhanced photoinduced $\chi^{(2)}$ in gamma-ray-irradiated bulk glass. Optics Letters, 2000, 25, 902.	1.7	3
53	Resonant-tunnelling conductance of a finite-size amorphous sample. Journal of Physics Condensed Matter, 1999, 11, 8547-8553.	0.7	0
54	Near-threshold-energy conductance of a thin wire. Physical Review B, 1999, 60, 10664-10667.	1.1	8

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55	Graded transmission in a bent orifice. <i>Physical Review B</i> , 1999, 60, 14172-14176.	1.1	2
56	Sub-wavelength non-local spatial solitons. <i>Optics Communications</i> , 1999, 166, 121-126.	1.0	25
57	Low-temperature magnetoconductance transition to Mott's conductance. <i>Physical Review B</i> , 1997, 55, 15828-15831.	1.1	1
58	Subwavelength spatial solitons. <i>Optics Letters</i> , 1997, 22, 1290.	1.7	30