

# David J Kedziora

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,642  
citations

516681

16  
h-index

477281

29  
g-index

37  
all docs

37  
docs citations

37  
times ranked

827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second-order nonlinear Schrödinger equation breather solutions in the degenerate and rogue wave limits. <i>Physical Review E</i> , 2012, 85, 066601.	2.1	215
2	Rogue wave triplets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2782-2785.	2.1	195
3	Circular rogue wave clusters. <i>Physical Review E</i> , 2011, 84, 056611.	2.1	179
4	Classifying the hierarchy of nonlinear-Schrödinger-equation rogue-wave solutions. <i>Physical Review E</i> , 2013, 88, 013207.	2.1	147
5	Infinite hierarchy of nonlinear Schrödinger equations and their solutions. <i>Physical Review E</i> , 2016, 93, 012206.	2.1	133
6	Soliton solutions of an integrable nonlinear Schrödinger equation with quintic terms. <i>Physical Review E</i> , 2014, 90, 032922.	2.1	117
7	NetPyNE, a tool for data-driven multiscale modeling of brain circuits. <i>ELife</i> , 2019, 8, .	6.0	109
8	Breather-to-soliton conversions described by the quintic equation of the nonlinear Schrödinger hierarchy. <i>Physical Review E</i> , 2015, 91, 032928.	2.1	98
9	New inverse quasifission mechanism to produce neutron-rich transfermium nuclei. <i>Physical Review C</i> , 2010, 81, .	2.9	67
10	Breather solutions of the integrable quintic nonlinear Schrödinger equation and their interactions. <i>Physical Review E</i> , 2015, 91, 022919.	2.1	63
11	Triangular rogue wave cascades. <i>Physical Review E</i> , 2012, 86, 056602.	2.1	57
12	Mammalian Sleep Dynamics: How Diverse Features Arise from a Common Physiological Framework. <i>PLoS Computational Biology</i> , 2010, 6, e1000826.	3.2	45
13	Integrable equations of the infinite nonlinear Schrödinger equation hierarchy with time variable coefficients. <i>Chaos</i> , 2015, 25, 103114.	2.5	43
14	How should HIV resources be allocated? Lessons learnt from applying Optima HIV in 23 countries. <i>Journal of the International AIDS Society</i> , 2018, 21, e25097.	3.0	29
15	Rogue waves for a long wave–short wave resonance model with multiple short waves. <i>Nonlinear Dynamics</i> , 2016, 85, 2827-2841.	5.2	23
16	Maximizing the impact of malaria funding through allocative efficiency: using the right interventions in the right locations. <i>Malaria Journal</i> , 2017, 16, 368.	2.3	22
17	The phase patterns of higher-order rogue waves. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 064011.	2.2	16
18	Optimal allocation of HIV resources among geographical regions. <i>BMC Public Health</i> , 2019, 19, 1509.	2.9	14

#	ARTICLE	IF	CITATIONS
19	Physiologically based quantitative modeling of unihemispheric sleep. <i>Journal of Theoretical Biology</i> , 2012, 314, 109-119.	1.7	10
20	Computational Infrared Spectroscopy of 958 Phosphorus-Bearing Molecules. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	10
21	Getting it right when budgets are tight: Using optimal expansion pathways to prioritize responses to concentrated and mixed HIV epidemics. <i>PLoS ONE</i> , 2017, 12, e0185077.	2.5	10
22	Actinide collisions for QED and superheavy elements with the time-dependent Hartree-Fock theory and the Balian-Vâ©nÃ©roni variational principle. <i>EPJ Web of Conferences</i> , 2011, 17, 09002.	0.3	9
23	Optima TB: A tool to help optimally allocate tuberculosis spending. <i>PLoS Computational Biology</i> , 2021, 17, e1009255.	3.2	8
24	Frequency-based Quantum Computers from a Chemist's Perspective. <i>Australian Journal of Chemistry</i> , 2012, 65, 512.	0.9	4
25	The 2ÃÂµm spectrum of the auroral emission in the polar regions of Jupiter. <i>Icarus</i> , 2017, 294, 156-171.	2.5	4
26	Applying the âno-one worse offâ criterion to design Pareto efficient HIV responses in Sudan and Togo. <i>Aids</i> , 2019, 33, 1247-1252.	2.2	4
27	Mode-spectral analysis of 2D Coulomb clusters with fluctuating charges. <i>Europhysics Letters</i> , 2008, 84, 55001.	2.0	2
28	The Cascade Analysis Tool: software to analyze and optimize care cascades. <i>Gates Open Research</i> , 2019, 3, 1488.	1.1	2
29	Gravitational microlensing as a probe of the electron-scattering region in Q2237+0305ÃÂ.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 1409-1418.	4.4	1
30	Optima HIV Methodology and Approach. , 2020, , 291-328.		1
31	Oscillation Spectrum of Coulomb Clusters with Variable Dust Charge. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
32	Charge fluctuations and their influence on dust cluster oscillation modes. , 2008, , .		0
33	Rogue wave clusters with atom-like structures. , 2012, , .		0
34	Molecular Design Principles for Linearly Scalable, Frequency-Based, Universal Quantum Computers. , 2011, , .		0
35	The Tuberculosis Epidemic in Romania. , 2019, , .		0