

David J Kedziora

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,642
citations

516710

16
h-index

477307

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 |

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|----|---|-----|-----------|
| 19 | Physiologically based quantitative modeling of unihemispheric sleep. Journal of Theoretical Biology, 2012, 314, 109-119. | 1.7 | 10 |
| 20 | Computational Infrared Spectroscopy of 958 Phosphorus-Bearing Molecules. Frontiers in Astronomy and Space Sciences, 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. PLoS ONE, 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. EPJ Web of Conferences, 2011, 17, 09002. | 0.3 | 9 |
| 23 | Optima TB: A tool to help optimally allocate tuberculosis spending. PLoS Computational Biology, 2021, 17, e1009255. | 3.2 | 8 |
| 24 | Frequency-based Quantum Computers from a Chemist's Perspective. Australian Journal of Chemistry, 2012, 65, 512. | 0.9 | 4 |
| 25 | The 2Âµm spectrum of the auroral emission in the polar regions of Jupiter. Icarus, 2017, 294, 156-171. | 2.5 | 4 |
| 26 | Applying the "no-one worse off"™ criterion to design Pareto efficient HIV responses in Sudan and Togo. Aids, 2019, 33, 1247-1252. | 2.2 | 4 |
| 27 | Mode-spectral analysis of 2D Coulomb clusters with fluctuating charges. Europhysics Letters, 2008, 84, 55001. | 2.0 | 2 |
| 28 | The Cascade Analysis Tool: software to analyze and optimize care cascades. Gates Open Research, 2019, 3, 1488. | 1.1 | 2 |
| 29 | Gravitational microlensing as a probe of the electron-scattering region in Q2237+0305â˜.... Monthly Notices of the Royal Astronomical Society, 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. AIP Conference Proceedings, 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 |