Raphael Voituriez

List of Publications by Year in descending order

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28274 29157 12,476 149 55 citations h-index papers

g-index 160 160 160 9818 docs citations times ranked citing authors all docs

104

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Self-Interacting Random Walks: Aging, Exploration, and First-Passage Times. Physical Review X, 2022, 12, | 8.9 | 5 |
| 2 | Joint statistics of space and time exploration of one-dimensional random walks. Physical Review E, 2022, 105, 034116. | 2.1 | 6 |
| 3 | Crosslinking and depletion determine spatial instabilities in cytoskeletal active matter. Soft Matter, 2022, 18, 3793-3800. | 2.7 | 6 |
| 4 | Self-generated gradients steer collective migration on viscoelastic collagen networks. Nature Materials, 2022, 21, 1200-1210. | 27.5 | 29 |
| 5 | Elasticity of podosome actin networks produces nanonewton protrusive forces. Nature Communications, 2022, 13, . | 12.8 | 14 |
| 6 | Reply to "Comment on †Inverse Square Lévy Walks are not Optimal Search Strategies for <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi><mml:mo>≥</mml:mo><mml:mn>2</mml:mn></mml:math> â€â€™. Physical Review Letters, 2021, 126, 048902. | 7.8 | 13 |
| 7 | Distribution of the span of one-dimensional confined random processes before hitting a target. Physical Review E, 2021, 103, 032107. | 2.1 | 8 |
| 8 | Universality Classes of Hitting Probabilities of Jump Processes. Physical Review Letters, 2021, 126, 100602. | 7.8 | 6 |
| 9 | Cell migration guided by long-lived spatial memory. Nature Communications, 2021, 12, 4118. | 12.8 | 32 |
| 10 | Universal kinetics of imperfect reactions in confinement. Communications Chemistry, 2021, 4, . | 4.5 | 10 |
| 11 | Stick-slip dynamics of cell adhesion triggers spontaneous symmetry breaking and directional migration of mesenchymal cells on one-dimensional lines. Science Advances, 2020, 6, eaau5670. | 10.3 | 56 |
| 12 | Anomalous persistence exponents for normal yet aging diffusion. Physical Review E, 2020, 102, 062115. | 2.1 | 8 |
| 13 | Chiral Active Hexatics: Giant Number Fluctuations, Waves, and Destruction of Order. Physical Review Letters, 2020, 125, 238005. | 7.8 | 17 |
| 14 | Cellular locomotion using environmental topography. Nature, 2020, 582, 582-585. | 27.8 | 150 |
| 15 | Collective Dynamics of Focal Adhesions Regulate Direction of Cell Motion. Cell Systems, 2020, 10, 535-542.e4. | 6.2 | 17 |
| 16 | Motility and morphodynamics of confined cells. Physical Review E, 2020, 101, 022404. | 2.1 | 13 |
| 17 | Inverse Square Lévy Walks are not Optimal Search Strategies for <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi><mml:mo>≥</mml:mo><mml:mn>2</mml:mn></mml:math> . Physical Review Letters, 2020, 124, 080601. | 7.8 | 38 |
| 18 | Enhanced Orientational Ordering Induced by an Active yet Isotropic Bath. Physical Review Letters, 2020, 124, 048003. | 7.8 | 8 |

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| 19 | Cell response to substrate rigidity is regulated by active and passive cytoskeletal stress. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12817-12825. | 7.1 | 122 |
| 20 | Active diffusion in oocytes nonspecifically centers large objects during prophase I and meiosis I. Journal of Cell Biology, 2020, 219, . | 5.2 | 33 |
| 21 | One-dimensional cell motility patterns. Physical Review Research, 2020, 2, . | 3 . 6 | 40 |
| 22 | Kinetics of rare events for non-Markovian stationary processes and application to polymer dynamics. Physical Review Research, 2020, 2, . | 3.6 | 2 |
| 23 | Survival probability of stochastic processes beyond persistence exponents. Nature Communications, 2019, 10, 2990. | 12.8 | 16 |
| 24 | Actomyosin-driven force patterning controls endocytosis at the immune synapse. Nature Communications, 2019, 10, 2870. | 12.8 | 53 |
| 25 | Tunable corrugated patterns in an active nematic sheet. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22464-22470. | 7.1 | 32 |
| 26 | Active Fluctuations of the Nuclear Envelope Shape the Transcriptional Dynamics in Oocytes. Developmental Cell, 2019, 51, 145-157.e10. | 7.0 | 46 |
| 27 | Diffusion through Nanopores in Connected Lipid Bilayer Networks. Physical Review Letters, 2019, 123, 088101. | 7.8 | 7 |
| 28 | Large-scale curvature sensing by directional actin flow drives cellular migration mode switching. Nature Physics, 2019, 15, 393-402. | 16.7 | 78 |
| 29 | Cell shape and substrate stiffness drive actin-based cell polarity. Physical Review E, 2019, 99, 012412. | 2.1 | 39 |
| 30 | Macropinocytosis Overcomes Directional Bias in Dendritic Cells Due to Hydraulic Resistance and Facilitates Space Exploration. Developmental Cell, 2019, 49, 171-188.e5. | 7.0 | 71 |
| 31 | Signatures of motor susceptibility to forces in the dynamics of a tracer particle in an active gel. Physical Review E, 2019, 99, 022419. | 2.1 | 16 |
| 32 | Time rescaling reproduces EEG behavior during transition from propofol anesthesia-induced unconsciousness to consciousness. Scientific Reports, 2018, 8, 6015. | 3.3 | 3 |
| 33 | Dynamics of run-and-tumble particles in dense single-file systems. New Journal of Physics, 2018, 20, 113045. | 2.9 | 11 |
| 34 | Tracer diffusion in crowded narrow channels. Journal of Physics Condensed Matter, 2018, 30, 443001. | 1.8 | 34 |
| 35 | Nonequilibrium Fluctuations and Enhanced Diffusion of a Driven Particle in a Dense Environment. Physical Review Letters, 2018, 120, 200606. | 7.8 | 26 |
| 36 | Integrating Physical and Molecular Insights on Immune Cell Migration. Trends in Immunology, 2018, 39, 632-643. | 6.8 | 73 |

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| 38 | Directed Flow of Micromotors through Alignment Interactions with Micropatterned Ratchets. ACS Nano, 2018, 12, 7282-7291. | 14.6 | 55 |
| 39 | Optimized Diffusion of Run-and-Tumble Particles in Crowded Environments. Physical Review Letters, 2018, 120, 198103. | 7.8 | 49 |
| 40 | Universal first-passage statistics in aging media. Physical Review E, 2018, 98, 022125. | 2.1 | 22 |
| 41 | Ependymal cilia beating induces an actin network to protect centrioles against shear stress. Nature Communications, 2018, 9, 2279. | 12.8 | 66 |
| 42 | Mean first-passage time of an anisotropic diffusive searcher. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 024001. | 2.1 | 2 |
| 43 | Myofibril contraction and crosslinking drive nuclear movement to the periphery of skeletal muscle. Nature Cell Biology, 2017, 19, 1189-1201. | 10.3 | 100 |
| 44 | Analysis of a Nonlocal and Nonlinear Fokker–Planck Model for Cell Crawling Migration. SIAM Journal on Applied Mathematics, 2017, 77, 2040-2065. | 1.8 | 4 |
| 45 | Optimal search strategies of run-and-tumble walks. Physical Review E, 2016, 94, 012117. | 2.1 | 34 |
| 46 | Single cell rigidity sensing: A complex relationship between focal adhesion dynamics and large-scale actin cytoskeleton remodeling. Cell Adhesion and Migration, 2016, 10, 554-567. | 2.7 | 47 |
| 47 | Callan-Jones <i>etÂal.</i> Reply:. Physical Review Letters, 2016, 117, 139802. | 7.8 | 0 |
| 48 | Deterministic patterns in cell motility. Nature Physics, 2016, 12, 1146-1152. | 16.7 | 40 |
| 49 | Active Particles with Soft and Curved Walls: Equation of State, Ratchets, and Instabilities. Physical Review Letters, 2016, 117, 098001. | 7.8 | 132 |
| 50 | Nonlinear response and emerging nonequilibrium microstructures for biased diffusion in confined crowded environments. Physical Review E, 2016, 93, 032128. | 2.1 | 37 |
| 51 | Cortical Flow-Driven Shapes of Nonadherent Cells. Physical Review Letters, 2016, 116, 028102. | 7.8 | 37 |
| 52 | Mean first-passage times of non-Markovian random walkers in confinement. Nature, 2016, 534, 356-359. | 27.8 | 105 |
| 53 | Innate control of actin nucleation determines two distinct migration behaviours in dendritic cells. Nature Cell Biology, 2016, 18, 43-53. | 10.3 | 184 |
| 54 | ESCRT III repairs nuclear envelope ruptures during cell migration to limit DNA damage and cell death. Science, 2016, 352, 359-362. | 12.6 | 738 |

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| 55 | Actin flows in cell migration: from locomotion and polarity to trajectories. Current Opinion in Cell Biology, 2016, 38, 12-17. | 5.4 | 74 |
| 56 | F-actin mechanics control spindle centring in the mouse zygote. Nature Communications, 2016, 7, 10253. | 12.8 | 75 |
| 57 | Contact Kinetics in Fractal Macromolecules. Physical Review Letters, 2015, 115, 208301. | 7.8 | 13 |
| 58 | Diffusion and Subdiffusion of Interacting Particles on Comblike Structures. Physical Review Letters, 2015, 115, 220601. | 7.8 | 48 |
| 59 | Non-Markovian closure kinetics of flexible polymers with hydrodynamic interactions. Journal of Chemical Physics, 2015, 143, 204108. | 3.0 | 4 |
| 60 | Confinement and Low Adhesion Induce Fast Amoeboid Migration of Slow Mesenchymal Cells. Cell, 2015, 160, 659-672. | 28.9 | 674 |
| 61 | Cortical Contractility Triggers a Stochastic Switch to Fast Amoeboid Cell Motility. Cell, 2015, 160, 673-685. | 28.9 | 345 |
| 62 | A narrow window of cortical tension guides asymmetric spindle positioning in the mouse oocyte. Nature Communications, 2015, 6, 6027. | 12.8 | 66 |
| 63 | Exit Time Distribution in Spherically Symmetric Two-Dimensional Domains. Journal of Statistical Physics, 2015, 158, 192-230. | 1.2 | 43 |
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| 65 | Cell migration and antigen capture are antagonistic processes coupled by myosin II in dendritic cells. Nature Communications, 2015, 6, 7526. | 12.8 | 143 |
| 66 | Adaptive rheology and ordering of cell cytoskeleton govern matrix rigidity sensing. Nature Communications, 2015, 6, 7525. | 12.8 | 233 |
| 67 | Actin Flows Mediate a Universal Coupling between Cell Speed and Cell Persistence. Cell, 2015, 161, 374-386. | 28.9 | 369 |
| 68 | Active diffusion positions the nucleus in mouse oocytes. Nature Cell Biology, 2015, 17, 470-479. | 10.3 | 139 |
| 69 | Working Together: Spatial Synchrony in the Force and Actin Dynamics of Podosome First Neighbors. ACS Nano, 2015, 9, 3800-3813. | 14.6 | 49 |
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| 70 | Mean first-passage times in confined media: from Markovian to non-Markovian processes. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 163001. | 2.1 | 39 |
| 70 | Mean first-passage times in confined media: from Markovian to non-Markovian processes. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 163001. The cell ratchet: Interplay between efficient protrusions and adhesion determines cell motion. Cell Adhesion and Migration, 2015, 9, 327-334. | 2.1 | 25 |

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| 73 | Single-molecule tracking in live cells reveals distinct target-search strategies of transcription factors in the nucleus. ELife, 2014, 3, . | 6.0 | 273 |
| 74 | Microscopic Theory for Negative Differential Mobility in Crowded Environments. Physical Review Letters, 2014, 113, 268002. | 7.8 | 62 |
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| 80 | Cyclization kinetics of Gaussian semiflexible polymer chains. Physical Review E, 2014, 90, 052601. | 2.1 | 13 |
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| 84 | First-Passage Times of Intermittent Random Walks. , 2014, , 70-95. | | 0 |
| 85 | First-Passage Statistics for Random Walks in Bounded Domains. , 2014, , 145-174. | | 1 |
| 86 | Active Transport in Dense Diffusive Single-File Systems. Physical Review Letters, 2013, 111, 038102. | 7.8 | 63 |
| 87 | A soft cortex is essential for asymmetric spindle positioning in mouse oocytes. Nature Cell Biology, 2013, 15, 958-966. | 10.3 | 145 |
| 88 | Migration of dendritic cells: physical principles, molecular mechanisms, and functional implications. Immunological Reviews, 2013, 256, 240-254. | 6.0 | 111 |
| 89 | Geometry-Induced Superdiffusion in Driven Crowded Systems. Physical Review Letters, 2013, 111, 260601. | 7.8 | 74 |
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| 91 | Reactive conformations and non-Markovian reaction kinetics of a Rouse polymer searching for a target in confinement. Physical Review E, 2013, 87, . | 2.1 | 17 |
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| 95 | Cell-sized liposomes reveal how actomyosin cortical tension drives shape change. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16456-16461. | 7.1 | 102 |
| 96 | Evidence of a large-scale mechanosensing mechanism for cellular adaptation to substrate stiffness. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6933-6938. | 7.1 | 474 |
| 97 | Non-Gaussianity and dynamical trapping in locally activated random walks. Physical Review E, 2012, 85, 021137. | 2.1 | 5 |
| 98 | Exact calculations of first-passage quantities on recursive networks. Physical Review E, 2012, 85, 026113. | 2.1 | 75 |
| 99 | Optimizing Persistent Random Searches. Physical Review Letters, 2012, 108, 088103. | 7.8 | 78 |
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| 101 | Geometry-Induced Bursting Dynamics in Gene Expression. Biophysical Journal, 2012, 102, 2186-2191. | 0.5 | 28 |
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| 103 | | | |
| 100 | Classes of fast and specific search mechanisms for proteins on DNA. Reports on Progress in Physics, 2012, 75, 026601. | 20.1 | 102 |
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| 110 | Spontaneous Contractility-Mediated Cortical Flow Generates Cell Migration in Three-Dimensional Environments. Biophysical Journal, 2011, 101, 1041-1045. | 0.5 | 119 |
| 111 | Universality classes of first-passage-time distribution in confined media. Physical Review E, 2011, 83, 051116. | 2.1 | 40 |
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| 115 | Geometry-controlled kinetics. Nature Chemistry, 2010, 2, 472-477. | 13.6 | 295 |
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| 123 | Global mean first-passage times of random walks on complex networks. Physical Review E, 2009, 80, 065104. | 2.1 | 148 |
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| 125 | Dynamical and spatial disorder in an intermittent search process. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 434007. | 2.1 | 5 |
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| 128 | Searching Fast for a Target on DNA without Falling to Traps. Physical Review Letters, 2009, 103, 138102. | 7.8 | 75 |
| 129 | Quantifying Hopping and Jumping in Facilitated Diffusion of DNA-Binding Proteins. Physical Review Letters, 2009, 102, 188101. | 7.8 | 97 |
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| 134 | Spontaneous flow of active polar gels in undulated channels. Faraday Discussions, 2008, 139, 369. | 3.2 | 12 |
| 135 | Probing microscopic origins of confined subdiffusion by first-passage observables. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5675-5680. | 7.1 | 179 |
| 136 | Sliding and jumping of single EcoRV restriction enzymes on non-cognate DNA. Nucleic Acids Research, 2008, 36, 4118-4127. | 14.5 | 196 |
| 137 | Zero Constant Formula for First-Passage Observables in Bounded Domains. Physical Review Letters, 2008, 101, 130601. | 7.8 | 39 |
| 138 | Intermittent search process and teleportation. Journal of Chemical Physics, 2007, 126, 234109. | 3.0 | 28 |
| 139 | A minimal model of intermittent search in dimension two. Journal of Physics Condensed Matter, 2007, 19, 065141. | 1.8 | 41 |
| 140 | Comment on "Localization Transition of Biased Random Walks on Random Networks― Physical Review Letters, 2007, 99, 209801. | 7.8 | 3 |
| 141 | First-passage times in complex scale-invariant media. Nature, 2007, 450, 77-80. | 27.8 | 520 |
| 142 | Two-dimensional intermittent search processes: An alternative to Lévy flight strategies. Physical Review E, 2006, 74, 020102. | 2.1 | 138 |
| 143 | Intermittent search strategies: When losing time becomes efficient. Europhysics Letters, 2006, 75, 349-354. | 2.0 | 56 |
| 144 | Generic Phase Diagram of Active Polar Films. Physical Review Letters, 2006, 96, 028102. | 7.8 | 122 |

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| 145 | Spontaneous flow transition in active polar gels. Europhysics Letters, 2005, 70, 404-410. | 2.0 | 295 |
| 146 | Optimal Search Strategies for Hidden Targets. Physical Review Letters, 2005, 94, 198101. | 7.8 | 270 |
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| 148 | A stochastic model for intermittent search strategies. Journal of Physics Condensed Matter, 2005, 17, S4275-S4286. | 1.8 | 40 |
| 149 | Kinetics of Target Site Localization of a Protein on DNA: A Stochastic Approach. Biophysical Journal, 2004, 87, 1640-1649. | 0.5 | 204 |