

# Benjamin D Simons

## List of Publications by Year in descending order

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229  
papers

21,796  
citations

10986

71  
h-index

11607

135  
g-index

248  
all docs

248  
docs citations

248  
times ranked

23403  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intestinal Crypt Homeostasis Results from Neutral Competition between Symmetrically Dividing Lgr5 Stem Cells. <i>Cell</i> , 2010, 143, 134-144.	28.9	1,679
2	Distinct fibroblast lineages determine dermal architecture in skin development and repair. <i>Nature</i> , 2013, 504, 277-281.	27.8	946
3	A single type of progenitor cell maintains normal epidermis. <i>Nature</i> , 2007, 446, 185-189.	27.8	756
4	Defining the mode of tumour growth by clonal analysis. <i>Nature</i> , 2012, 488, 527-530.	27.8	662
5	A single-cell molecular map of mouse gastrulation and early organogenesis. <i>Nature</i> , 2019, 566, 490-495.	27.8	658
6	Intestinal Stem Cell Replacement Follows a Pattern of Neutral Drift. <i>Science</i> , 2010, 330, 822-825.	12.6	578
7	Distinct contribution of stem and progenitor cells to epidermal maintenance. <i>Nature</i> , 2012, 489, 257-262.	27.8	494
8	Long-term, hormone-responsive organoid cultures of human endometrium in a chemically defined medium. <i>Nature Cell Biology</i> , 2017, 19, 568-577.	10.3	442
9	Strategies for Homeostatic Stem Cell Self-Renewal in Adult Tissues. <i>Cell</i> , 2011, 145, 851-862.	28.9	441
10	Intestinal crypt homeostasis revealed at single-stem-cell level by in vivo live imaging. <i>Nature</i> , 2014, 507, 362-365.	27.8	431
11	Deterministic Progenitor Behavior and Unitary Production of Neurons in the Neocortex. <i>Cell</i> , 2014, 159, 775-788.	28.9	354
12	Transformation of spin information into large electrical signals using carbon nanotubes. <i>Nature</i> , 2007, 445, 410-413.	27.8	325
13	Fate mapping of human glioblastoma reveals an invariant stem cell hierarchy. <i>Nature</i> , 2017, 549, 227-232.	27.8	321
14	Extensive Proliferation of a Subset of Differentiated, yet Plastic, Medial Vascular Smooth Muscle Cells Contributes to Neointimal Formation in Mouse Injury and Atherosclerosis Models. <i>Circulation Research</i> , 2016, 119, 1313-1323.	4.5	317
15	Universal patterns of stem cell fate in cycling adult tissues. <i>Development (Cambridge)</i> , 2011, 138, 3103-3111.	2.5	295
16	2D and 3D Stem Cell Models of Primate Cortical Development Identify Species-Specific Differences in Progenitor Behavior Contributing to Brain Size. <i>Cell Stem Cell</i> , 2016, 18, 467-480.	11.1	292
17	Defining stem cell dynamics and migration during wound healing in mouse skin epidermis. <i>Nature Communications</i> , 2017, 8, 14684.	12.8	273
18	A Single Progenitor Population Switches Behavior to Maintain and Repair Esophageal Epithelium. <i>Science</i> , 2012, 337, 1091-1093.	12.6	272

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19	Live imaging of neurogenesis in the adult mouse hippocampus. <i>Science</i> , 2018, 359, 658-662.	12.6	259
20	The role of the interlayer state in the electronic structure of superconducting graphite intercalated compounds. <i>Nature Physics</i> , 2005, 1, 42-45.	16.7	255
21	Early lineage restriction in temporally distinct populations of <i>Mesp1</i> progenitors during mammalian heart development. <i>Nature Cell Biology</i> , 2014, 16, 829-840.	10.3	255
22	Mouse Spermatogenic Stem Cells Continually Interconvert between Equipotent Singly Isolated and Syncytial States. <i>Cell Stem Cell</i> , 2014, 14, 658-672.	11.1	244
23	Unravelling stem cell dynamics by lineage tracing. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 489-502.	37.0	231
24	The Ordered Architecture of Murine Ear Epidermis Is Maintained by Progenitor Cells with Random Fate. <i>Developmental Cell</i> , 2010, 18, 317-323.	7.0	221
25	How Variable Clones Build an Invariant Retina. <i>Neuron</i> , 2012, 75, 786-798.	8.1	217
26	Mouse Germ Line Stem Cells Undergo Rapid and Stochastic Turnover. <i>Cell Stem Cell</i> , 2010, 7, 214-224.	11.1	216
27	Biased competition between <i>Lgr5</i> intestinal stem cells driven by oncogenic mutation induces clonal expansion. <i>EMBO Reports</i> , 2014, 15, 62-69.	4.5	203
28	Universal velocity correlations in disordered and chaotic systems. <i>Physical Review Letters</i> , 1993, 70, 4063-4066.	7.8	196
29	Multipotent and unipotent progenitors contribute to prostate postnatal development. <i>Nature Cell Biology</i> , 2012, 14, 1131-1138.	10.3	193
30	Finite-temperature phase diagram of a polarized Fermi condensate. <i>Nature Physics</i> , 2007, 3, 124-128.	16.7	180
31	Quantification of Crypt and Stem Cell Evolution in the Normal and Neoplastic Human Colon. <i>Cell Reports</i> , 2014, 8, 940-947.	6.4	179
32	Quantum Chaos, Irreversible Classical Dynamics, and Random Matrix Theory. <i>Physical Review Letters</i> , 1996, 76, 3947-3950.	7.8	176
33	Universalities in the spectra of disordered and chaotic systems. <i>Physical Review B</i> , 1993, 48, 5422-5438.	3.2	174
34	Dynamics of nonequilibrium Dicke models. <i>Physical Review A</i> , 2012, 85, .	2.5	159
35	<i>Drosophila</i> midgut homeostasis involves neutral competition between symmetrically dividing intestinal stem cells. <i>EMBO Journal</i> , 2012, 31, 2473-2485.	7.8	158
36	Identity and dynamics of mammary stem cells during branching morphogenesis. <i>Nature</i> , 2017, 542, 313-317.	27.8	157

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37	Differentiation imbalance in single oesophageal progenitor cells causes clonal immortalization and field change. <i>Nature Cell Biology</i> , 2014, 16, 612-619.	10.3	154
38	Clonal Dynamics Reveal Two Distinct Populations of Basal Cells in Slow-Turnover Airway Epithelium. <i>Cell Reports</i> , 2015, 12, 90-101.	6.4	154
39	Inhomogeneous Phase Formation on the Border of Itinerant Ferromagnetism. <i>Physical Review Letters</i> , 2009, 103, 207201.	7.8	153
40	Sic Transit Gloria: Farewell to the Epidermal Transit Amplifying Cell?. <i>Cell Stem Cell</i> , 2007, 1, 371-381.	11.1	152
41	Integration of spatial and single-cell transcriptomic data elucidates mouse organogenesis. <i>Nature Biotechnology</i> , 2022, 40, 74-85.	17.5	152
42	Single-cell transcriptome analyses reveal novel targets modulating cardiac neovascularization by resident endothelial cells following myocardial infarction. <i>European Heart Journal</i> , 2019, 40, 2507-2520.	2.2	149
43	Reconstruction of rat retinal progenitor cell lineages in vitro reveals a surprising degree of stochasticity in cell fate decisions. <i>Development (Cambridge)</i> , 2011, 138, 227-235.	2.5	139
44	Stem cell self-renewal in intestinal crypt. <i>Experimental Cell Research</i> , 2011, 317, 2719-2724.	2.6	138
45	A Unifying Theory of Branching Morphogenesis. <i>Cell</i> , 2017, 171, 242-255.e27.	28.9	138
46	Troy+ brain stem cells cycle through quiescence and regulate their number by sensing niche occupancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E610-E619.	7.1	138
47	Collective Dynamics of Bose-Einstein Condensates in Optical Cavities. <i>Physical Review Letters</i> , 2010, 105, 043001.	7.8	135
48	Theories of low-energy quasi-particle states in disordered d-wave superconductors. <i>Physics Reports</i> , 2002, 359, 283-354.	25.6	131
49	Quantitative lineage tracing strategies to resolve multipotency in tissue-specific stem cells. <i>Genes and Development</i> , 2016, 30, 1261-1277.	5.9	131
50	Formation Mechanism and Low-Temperature Instability of Exciton Rings. <i>Physical Review Letters</i> , 2004, 92, 117404.	7.8	120
51	Exact description of spectral correlators by a quantum one-dimensional model with inverse-square interaction. <i>Physical Review Letters</i> , 1993, 70, 4122-4125.	7.8	114
52	Inhibition of $\beta$ -catenin signalling in dermal fibroblasts enhances hair follicle regeneration during wound healing. <i>Development (Cambridge)</i> , 2016, 143, 2522-35.	2.5	114
53	Mechanisms of stretch-mediated skin expansion at single-cell resolution. <i>Nature</i> , 2020, 584, 268-273.	27.8	113
54	Defining murine organogenesis at single-cell resolution reveals a role for the leukotriene pathway in regulating blood progenitor formation. <i>Nature Cell Biology</i> , 2018, 20, 127-134.	10.3	112

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55	Clonal analysis of Notch1-expressing cells reveals the existence of unipotent stem cells that retain long-term plasticity in the embryonic mammary gland. <i>Nature Cell Biology</i> , 2018, 20, 677-687.	10.3	112
56	Delocalization in Coupled One-Dimensional Chains. <i>Physical Review Letters</i> , 1998, 81, 862-865.	7.8	108
57	Identification of a regeneration-organizing cell in the <i>Xenopus</i> tail. <i>Science</i> , 2019, 364, 653-658.	12.6	108
58	Holographic Superfluids and the Dynamics of Symmetry Breaking. <i>Physical Review Letters</i> , 2013, 110, 015301.	7.8	107
59	Tracing the origin of adult intestinal stem cells. <i>Nature</i> , 2019, 570, 107-111.	27.8	107
60	Stochastic fate of <i>p53</i> mutant epidermal progenitor cells is tilted toward proliferation by UV B during preneoplasia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 270-275.	7.1	106
61	Dynamic stem cell heterogeneity. <i>Development (Cambridge)</i> , 2015, 142, 1396-1406.	2.5	105
62	Competition for Mitogens Regulates Spermatogenic Stem Cell Homeostasis in an Open Niche. <i>Cell Stem Cell</i> , 2019, 24, 79-92.e6.	11.1	105
63	Stochastic homeostasis in human airway epithelium is achieved by neutral competition of basal cell progenitors. <i>ELife</i> , 2013, 2, e00966.	6.0	105
64	Defining the clonal dynamics leading to mouse skin tumour initiation. <i>Nature</i> , 2016, 536, 298-303.	27.8	104
65	Matrix models, one-dimensional fermions, and quantum chaos. <i>Physical Review Letters</i> , 1994, 72, 64-67.	7.8	97
66	The developmental origin of brain tumours: a cellular and molecular framework. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	97
67	Defining the Identity and Dynamics of Adult Gastric Isthmus Stem Cells. <i>Cell Stem Cell</i> , 2019, 25, 342-356.e7.	11.1	97
68	Uncovering the Number and Clonal Dynamics of <i>Mesp1</i> Progenitors during Heart Morphogenesis. <i>Cell Reports</i> , 2016, 14, 1-10.	6.4	91
69	Models of coherent exciton condensation. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S3597-S3620.	1.8	87
70	Dynamics of <i>Lgr6</i> + Progenitor Cells in the Hair Follicle, Sebaceous Gland, and Interfollicular Epidermis. <i>Stem Cell Reports</i> , 2015, 5, 843-855.	4.8	87
71	Long-term self-renewing stem cells in the adult mouse hippocampus identified by intravital imaging. <i>Nature Neuroscience</i> , 2021, 24, 225-233.	14.8	87
72	Fermionic Superradiance in a Transversely Pumped Optical Cavity. <i>Physical Review Letters</i> , 2014, 112, 143002.	7.8	86

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73	Early stem cell aging in the mature brain. <i>Cell Stem Cell</i> , 2021, 28, 955-966.e7.	11.1	78
74	Self-Renewal of Single Mouse Hematopoietic Stem Cells Is Reduced by JAK2V617F Without Compromising Progenitor Cell Expansion. <i>PLoS Biology</i> , 2013, 11, e1001576.	5.6	77
75	Neutral competition of stem cells is skewed by proliferative changes downstream of Hh and Hpo. <i>EMBO Journal</i> , 2014, 33, 2295-2313.	7.8	77
76	Metabolic regulation of pluripotency and germ cell fate through $\alpha$ -ketoglutarate. <i>EMBO Journal</i> , 2019, 38, .	7.8	77
77	Human keratinocytes have two interconvertible modes of proliferation. <i>Nature Cell Biology</i> , 2016, 18, 145-156.	10.3	74
78	Kinetics of cell division in epidermal maintenance. <i>Physical Review E</i> , 2007, 76, 021910.	2.1	73
79	Cell Competition Modifies Adult Stem Cell and Tissue Population Dynamics in a JAK-STAT-Dependent Manner. <i>Developmental Cell</i> , 2015, 34, 297-309.	7.0	71
80	Polarized Fermi Condensates with Unequal Masses: Tuning the Tricritical Point. <i>Physical Review Letters</i> , 2007, 98, 160402.	7.8	70
81	Genome-Scale Oscillations in DNA Methylation during Exit from Pluripotency. <i>Cell Systems</i> , 2018, 7, 63-76.e12.	6.2	70
82	Muscle Stem Cells Exhibit Distinct Clonal Dynamics in Response to Tissue Repair and Homeostatic Aging. <i>Cell Stem Cell</i> , 2018, 22, 119-127.e3.	11.1	68
83	Multi-site Neurogenin3 Phosphorylation Controls Pancreatic Endocrine Differentiation. <i>Developmental Cell</i> , 2017, 41, 274-286.e5.	7.0	67
84	Long-term expansion, genomic stability and in vivo safety of adult human pancreas organoids. <i>BMC Developmental Biology</i> , 2020, 20, 4.	2.1	67
85	Defining the Design Principles of Skin Epidermis Postnatal Growth. <i>Cell</i> , 2020, 181, 604-620.e22.	28.9	65
86	Exclusive multipotency and preferential asymmetric divisions in post-embryonic neural stem cells of the fish retina. <i>Development (Cambridge)</i> , 2014, 141, 3472-3482.	2.5	64
87	Stem and progenitor cell division kinetics during postnatal mouse mammary gland development. <i>Nature Communications</i> , 2015, 6, 8487.	12.8	64
88	Multipotent Basal Stem Cells, Maintained in Localized Proximal Niches, Support Directed Long-Ranging Epithelial Flows in Human Prostates. <i>Cell Reports</i> , 2017, 20, 1609-1622.	6.4	64
89	Tail States in a Superconductor with Magnetic Impurities. <i>Physical Review Letters</i> , 2000, 85, 4783-4786.	7.8	62
90	Semiclassical field theory approach to quantum chaos. <i>Nuclear Physics B</i> , 1996, 482, 536-566.	2.5	61

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91	The ciliary marginal zone of the zebrafish retina: clonal and time-lapse analysis of a continuously growing tissue. <i>Development (Cambridge)</i> , 2016, 143, 1099-107.	2.5	60
92	Field theory of mesoscopic fluctuations in superconductor-normal-metal systems. <i>Advances in Physics</i> , 2000, 49, 321-394.	14.4	59
93	Pattern Formation as a Signature of Quantum Degeneracy in a Cold Exciton System. <i>Physical Review Letters</i> , 2005, 94, 176404.	7.8	59
94	A single dividing cell population with imbalanced fate drives oesophageal tumour growth. <i>Nature Cell Biology</i> , 2016, 18, 967-978.	10.3	57
95	Tracing oncogene-driven remodelling of the intestinal stem cell niche. <i>Nature</i> , 2021, 594, 442-447.	27.8	56
96	Supersymmetry applied to the spectrum edge of random matrix ensembles. <i>Nuclear Physics B</i> , 1994, 432, 487-517.	2.5	54
97	Dynamics of the BCS-BEC Crossover in a Degenerate Fermi Gas. <i>Physical Review Letters</i> , 2005, 94, 170402.	7.8	54
98	Superfluidity at the BEC-BCS crossover in two-dimensional Fermi gases with population and mass imbalance. <i>Physical Review A</i> , 2008, 77, .	2.5	54
99	Dynamic heterogeneity as a strategy of stem cell self-renewal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7509-7514.	7.1	54
100	A niche of trophoblast progenitor cells identified by integrin $\beta 2$ is present in first trimester human placentas. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	54
101	Quantized Adiabatic Charge Transport in a Carbon Nanotube. <i>Physical Review Letters</i> , 2001, 87, 276802.	7.8	52
102	Deep sequencing as a probe of normal stem cell fate and preneoplasia in human epidermis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 128-133.	7.1	52
103	Exact results for quantum chaotic systems and one-dimensional fermions from matrix models. <i>Nuclear Physics B</i> , 1993, 409, 487-508.	2.5	51
104	OPINION—Epidermal homeostasis: do committed progenitors work while stem cells sleep?. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 82-88.	37.0	51
105	The human squamous oesophagus has widespread capacity for clonal expansion from cells at diverse stages of differentiation. <i>Gut</i> , 2015, 64, 11-19.	12.1	51
106	Lgr5+ stem/progenitor cells reside at the apex of a heterogeneous embryonic hepatoblast pool. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	51
107	Correlators of Spectral Determinants in Quantum Chaos. <i>Physical Review Letters</i> , 1995, 75, 2304-2307.	7.8	49
108	Itinerant ferromagnetism in an atomic Fermi gas: Influence of population imbalance. <i>Physical Review A</i> , 2009, 79, .	2.5	48

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109	Cardelino: computational integration of somatic clonal substructure and single-cell transcriptomes. Nature Methods, 2020, 17, 414-421.	19.0	48
110	Repulsive Atomic Gas in a Harmonic Trap on the Border of Itinerant Ferromagnetism. Physical Review Letters, 2009, 103, 200403.	7.8	47
111	Random Dirac Fermions and Non-Hermitian Quantum Mechanics. Physical Review Letters, 1998, 80, 4257-4260.	7.8	46
112	In Brief. Nature Reviews Molecular Cell Biology, 2007, 8, 853-853.	37.0	46
113	New class of universal correlations in the spectra of hydrogen in a magnetic field. Physical Review Letters, 1993, 71, 2899-2902.	7.8	43
114	Universality in the spectra of strongly correlated systems. Physical Review B, 1993, 48, 5439-5443.	3.2	43
115	Gap fluctuations in inhomogeneous superconductors. Physical Review B, 2001, 64, .	3.2	43
116	Inhomogeneous Magnetic Phases: A Fulde-Ferrell-Larkin-Ovchinnikov-Like Phase in $\text{Sr}_3\text{Ru}_2\text{O}_7$ . Physical Review Letters, 2009, 102, 136404.	7.8	42
117	Coexistence of spin density wave, d-wave singlet and staggered $\text{d}_{xy}$ -triplet superconductivity. Journal of Physics Condensed Matter, 2008, 20, 434235.	1.8	40
118	Tracing cellular dynamics in tissue development, maintenance and disease. Current Opinion in Cell Biology, 2016, 43, 38-45.	5.4	39
119	Superconductors with magnetic impurities: Instantons and subgap states. Physical Review B, 2001, 64, .	3.2	38
120	Phase Bifurcation and Quantum Fluctuations in $\text{Sr}_3\text{Ru}_2\text{O}_7$ . Physical Review Letters, 2005, 95, 086402.	7.8	38
121	Polaritons and Pairing Phenomena in Bose-Hubbard Mixtures. Physical Review Letters, 2009, 102, 135301.	7.8	38
122	Defining Lineage Potential and Fate Behavior of Precursors during Pancreas Development. Developmental Cell, 2018, 46, 360-375.e5.	7.0	38
123	The Independent Probabilistic Firing of Transcription Factors: A Paradigm for Clonal Variability in the Zebrafish Retina. Developmental Cell, 2015, 34, 532-543.	7.0	37
124	Universality of clone dynamics during tissue development. Nature Physics, 2018, 14, 469-474.	16.7	37
125	Lineage hierarchies and stochasticity ensure the long-term maintenance of adult neural stem cells. Science Advances, 2020, 6, eaaz5424.	10.3	37
126	Release of Notch activity coordinated by $\text{IL-1}\beta$ signalling confers differentiation plasticity of airway progenitors via <i>Fosl2</i> during alveolar regeneration. Nature Cell Biology, 2021, 23, 953-966.	10.3	37



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127	Graphite intercalation compounds under pressure: A first-principles density functional theory study. <i>Physical Review B</i> , 2007, 75, .	3.2	35
128	Mechanism of murine epidermal maintenance: Cell division and the voter model. <i>Physical Review E</i> , 2008, 77, 031907.	2.1	31
129	Distinct progenitor behavior underlying neocortical gliogenesis related to tumorigenesis. <i>Cell Reports</i> , 2021, 34, 108853.	6.4	31
130	Behavior and lineage progression of neural progenitors in the mammalian cortex. <i>Current Opinion in Neurobiology</i> , 2021, 66, 144-157.	4.2	30
131	Stem cell lineage survival as a noisy competition for niche access. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16969-16975.	7.1	29
132	A biomechanical switch regulates the transition towards homeostasis in oesophageal epithelium. <i>Nature Cell Biology</i> , 2021, 23, 511-525.	10.3	29
133	Vesicles and onion phases in dilute surfactant solutions. <i>Journal De Physique II</i> , 1992, 2, 1439-1451.	0.9	28
134	Field theory of mesoscopic fluctuations in superconductor/normal-metal systems. <i>JETP Letters</i> , 1998, 67, 22-27.	1.4	28
135	Field theory of the random flux model. <i>Journal of Physics A</i> , 1999, 32, L353-L359.	1.6	28
136	Polariton condensation and lasing in optical microcavities: The decoherence-driven crossover. <i>Physical Review A</i> , 2003, 68, .	2.5	28
137	Bose-Hubbard models coupled to cavity light fields. <i>Physical Review A</i> , 2010, 81, .	2.5	28
138	Intratumoral Genetic and Functional Heterogeneity in Pediatric Glioblastoma. <i>Cancer Research</i> , 2019, 79, 2111-2123.	0.9	28
139	Crypt fusion as a homeostatic mechanism in the human colon. <i>Gut</i> , 2019, 68, 1986-1993.	12.1	28
140	Mutations in thyroid hormone receptor $\hat{\pm}1$ cause premature neurogenesis and progenitor cell depletion in human cortical development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22754-22763.	7.1	27
141	Ising Deconfinement Transition between Feshbach-Resonant Superfluids. <i>Physical Review Letters</i> , 2011, 106, 015303.	7.8	26
142	Tracing the Dynamics of Stem Cell Fate. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a036202.	5.5	26
143	Retrograde movements determine effective stem cell numbers in the intestine. <i>Nature</i> , 2022, 607, 548-554.	27.8	26
144	Crossover Driven by Time-Reversal Symmetry Breaking in Quantum Chaos. <i>Europhysics Letters</i> , 1994, 27, 335-340.	2.0	24

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145	Field theory of Euclidean matrix ensembles. <i>Journal of Physics A</i> , 2000, 33, 7567-7583.	1.6	24
146	Exciton front propagation in photoexcited GaAs quantum wells. <i>Physical Review B</i> , 2010, 81, .	3.2	24
147	Multiscale dynamics of branching morphogenesis. <i>Current Opinion in Cell Biology</i> , 2019, 60, 99-105.	5.4	24
148	Exact dynamical correlations of the 1/r <sup>2</sup> model. <i>Physical Review B</i> , 1994, 49, 15197-15211.	3.2	23
149	Exact ground state of an open S=1/2 long-range Heisenberg antiferromagnetic spin chain. <i>Physical Review B</i> , 1994, 50, 1102-1105.	3.2	23
150	Tracing the cellular dynamics of sebaceous gland development in normal and perturbed states. <i>Nature Cell Biology</i> , 2019, 21, 924-932.	10.3	23
151	High proliferation and delamination during skin epidermal stratification. <i>Nature Communications</i> , 2021, 12, 3227.	12.8	23
152	Magnetic analog of the Fulde-Ferrell-Larkin-Ovchinnikov phase in $Sr_3Ru_2O_7$ . <i>Physical Review B</i> , 2010, 81, .	3.2	22
153	Stochastic combinations of actin regulatory proteins are sufficient to drive filopodia formation. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	22
154	Condensation of cavity polaritons in a disordered environment. <i>Physical Review B</i> , 2004, 70, .	3.2	21
155	Localization from $\mathbb{F}$ -model geodesics. <i>Physical Review B</i> , 2004, 70, .	3.2	20
156	Secreted inhibitors drive the loss of regeneration competence in <i>Xenopus</i> limbs. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	20
157	Transient suppression of transplanted spermatogonial stem cell differentiation restores fertility in mice. <i>Cell Stem Cell</i> , 2021, 28, 1443-1456.e7.	11.1	20
158	Predominant Asymmetrical Stem Cell Fate Outcome Limits the Rate of Niche Succession in Human Colonic Crypts. <i>EBioMedicine</i> , 2018, 31, 166-173.	6.1	19
159	Probing ultracold Fermi atoms with a single ion. <i>Physical Review A</i> , 2009, 79, .	2.5	18
160	Discrete symmetry breaking transitions between paired superfluids. <i>Physical Review A</i> , 2012, 85, .	2.5	18
161	Neurogenin3 phosphorylation controls reprogramming efficiency of pancreatic ductal organoids into endocrine cells. <i>Scientific Reports</i> , 2018, 8, 15374.	3.3	18
162	Three-dimensional model of glioblastoma by co-culturing tumor stem cells with human brain organoids. <i>Biology Open</i> , 2021, 10, .	1.2	18

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163	ASCL1 phosphorylation and ID2 upregulation are roadblocks to glioblastoma stem cell differentiation. <i>Scientific Reports</i> , 2022, 12, 2341.	3.3	18
164	p57Kip2 imposes the reserve stem cell state of gastric chief cells. <i>Cell Stem Cell</i> , 2022, 29, 826-839.e9.	11.1	17
165	Exact pair correlation of the one-dimensional quantum gas with $1/r^2$ repulsion derived from the symplectic Dyson ensemble. <i>Physical Review B</i> , 1993, 48, 11450-11452.	3.2	16
166	A multistate stem cell dynamics maintains homeostasis in mouse spermatogenesis. <i>Cell Reports</i> , 2021, 37, 109875.	6.4	16
167	Competition between Zero Bias Anomaly and Proximity Effect in Disordered Systems. <i>Physical Review Letters</i> , 1999, 82, 1269-1272.	7.8	15
168	Theory of quantum paraelectrics and the metaelectric transition. <i>Physical Review B</i> , 2010, 81, .	3.2	15
169	Fluctuation and commensurability effect of exciton density wave. <i>Physical Review B</i> , 2015, 91, .	3.2	15
170	Time-reversal symmetry breaking and the field theory of quantum chaos. <i>Journal of Mathematical Physics</i> , 1997, 38, 1982-2006.	1.1	14
171	Tracing the cellular basis of islet specification in mouse pancreas. <i>Nature Communications</i> , 2020, 11, 5037.	12.8	14
172	Visualization of individual cell division history in complex tissues using iCOUNT. <i>Cell Stem Cell</i> , 2021, 28, 2020-2034.e12.	11.1	14
173	The proneural wave in the <i>Drosophila</i> optic lobe is driven by an excitable reaction-diffusion mechanism. <i>ELife</i> , 2019, 8, .	6.0	14
174	Energy level correlations in disordered metals: Beyond universality. <i>Journal of Mathematical Physics</i> , 1996, 37, 4968-4985.	1.1	13
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