

Stefan Semrau

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,934
citations

430874

18
h-index

552781

26
g-index

31
all docs

31
docs citations

31
times ranked

4328
citing authors

#	ARTICLE	IF	CITATIONS
1	Human-iPSC-Derived Cardiac Stromal Cells Enhance Maturation in 3D Cardiac Microtissues and Reveal Non-cardiomyocyte Contributions to Heart Disease. <i>Cell Stem Cell</i> , 2020, 26, 862-879.e11.	11.1	337
2	Differential Stoichiometry among Core Ribosomal Proteins. <i>Cell Reports</i> , 2015, 13, 865-873.	6.4	178
3	Dynamics of lineage commitment revealed by single-cell transcriptomics of differentiating embryonic stem cells. <i>Nature Communications</i> , 2017, 8, 1096.	12.8	156
4	Single-cell transcriptomics reveals gene expression dynamics of human fetal kidney development. <i>PLoS Biology</i> , 2019, 17, e3000152.	5.6	121
5	Accurate Determination of Elastic Parameters for Multicomponent Membranes. <i>Physical Review Letters</i> , 2008, 100, 088101.	7.8	116
6	Membrane heterogeneity from lipid domains to curvature effects. <i>Soft Matter</i> , 2009, 5, 3174.	2.7	92
7	Deciphering Metabolic Heterogeneity by Single-Cell Analysis. <i>Analytical Chemistry</i> , 2019, 91, 13314-13323.	6.5	87
8	Guard Cells Elongate: Relationship of Volume and Surface Area during Stomatal Movement. <i>Biophysical Journal</i> , 2007, 92, 1072-1080.	0.5	85
9	Particle Image Correlation Spectroscopy (PICS): Retrieving Nanometer-Scale Correlations from High-Density Single-Molecule Position Data. <i>Biophysical Journal</i> , 2007, 92, 613-621.	0.5	77
10	Membrane-Mediated Interactions Measured Using Membrane Domains. <i>Biophysical Journal</i> , 2009, 96, 4906-4915.	0.5	76
11	Dynamic Enhancer DNA Methylation as Basis for Transcriptional and Cellular Heterogeneity of ESCs. <i>Molecular Cell</i> , 2019, 75, 905-920.e6.	9.7	73
12	Protein Incorporation in Giant Lipid Vesicles under Physiological Conditions. <i>ChemBioChem</i> , 2010, 11, 175-179.	2.6	42
13	Studying Lineage Decision-Making In Vitro: Emerging Concepts and Novel Tools. <i>Annual Review of Cell and Developmental Biology</i> , 2015, 31, 317-345.	9.4	41
14	FuseFISH: Robust Detection of Transcribed Gene Fusions in Single Cells. <i>Cell Reports</i> , 2014, 6, 18-23.	6.4	39
15	Quantification of Biological Interactions with Particle Image Cross-Correlation Spectroscopy (PICCS). <i>Biophysical Journal</i> , 2011, 100, 1810-1818.	0.5	37
16	Transcriptional profiling of cells sorted by RNA abundance. <i>Nature Methods</i> , 2014, 11, 549-551.	19.0	34
17	BMP-SMAD Signaling Regulates Lineage Priming, but Is Dispensable for Self-Renewal in Mouse Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 85-94.	4.8	27
18	Allele-specific repression of Sox2 through the long non-coding RNA Sox2ot. <i>Scientific Reports</i> , 2018, 8, 386.	3.3	21

#	ARTICLE	IF	CITATIONS
19	Membrane lysis by gramicidin S visualized in red blood cells and giant vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 2033-2039.	2.6	20
20	Membrane Mediated Sorting. <i>Physical Review Letters</i> , 2010, 104, 198102.	7.8	14
21	Microsecond Single-Molecule Tracking ($\hat{1}/4sSMT$). <i>Biophysical Journal</i> , 2011, 100, L19-L21.	0.5	13
22	Designable electron transport features in one-dimensional arrays of metallic nanoparticles: Monte Carlo study of the relation between shape and transport. <i>Physical Review B</i> , 2005, 72, .	3.2	12
23	A gastruloid model of the interaction between embryonic and extra-embryonic cell types. <i>Journal of Tissue Engineering</i> , 2022, 13, 204173142211030.	5.5	12
24	Robust assessment of protein complex formation in vivo via single-molecule intensity distributions of autofluorescent proteins. <i>Journal of Biomedical Optics</i> , 2011, 16, 076016.	2.6	10
25	Phiclust: a clusterability measure for single-cell transcriptomics reveals phenotypic subpopulations. <i>Genome Biology</i> , 2022, 23, 18.	8.8	4
26	How a cell decides its own fate: a single-cell view of molecular mechanisms and dynamics of cell-type specification. <i>Biochemical Society Transactions</i> , 2021, 49, 2509-2525.	3.4	3