

# David Zwicker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4267426/publications.pdf>

Version: 2024-02-01

28  
papers

1,760  
citations

516710

16  
h-index

580821

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling biomolecular condensates via chemical reactions. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210255.	3.4	38
2	Cavitation controls droplet sizes in elastic media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	23
3	Computational Fluid Dynamics Modeling of Nasal Obstruction and Associations with Patient-Reported Outcomes. <i>Plastic and Reconstructive Surgery</i> , 2021, 148, 592e-600e.	1.4	5
4	Self-generated oxygen gradients control collective aggregation of photosynthetic microbes. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210553.	3.4	10
5	Mechanisms for Active Regulation of Biomolecular Condensates. <i>Trends in Cell Biology</i> , 2020, 30, 4-14.	7.9	127
6	Theory of droplet ripening in stiffness gradients. <i>Soft Matter</i> , 2020, 16, 5898-5905.	2.7	14
7	Elastic stresses reverse Ostwald ripening. <i>Soft Matter</i> , 2020, 16, 5892-5897.	2.7	32
8	Elastic ripening and inhibition of liquid-liquid phase separation. <i>Nature Physics</i> , 2020, 16, 422-425.	16.7	92
9	py-pde: A Python package for solving partial differential equations. <i>Journal of Open Source Software</i> , 2020, 5, 2158.	4.6	25
10	Primacy coding facilitates effective odor discrimination when receptor sensitivities are tuned. <i>PLoS Computational Biology</i> , 2019, 15, e1007188.	3.2	4
11	Physics of active emulsions. <i>Reports on Progress in Physics</i> , 2019, 82, 064601.	20.1	176
12	Physical and geometric constraints shape the labyrinth-like nasal cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2936-2941.	7.1	15
13	Validated reconstructions of geometries of nasal cavities from CT scans. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 045022.	1.2	10
14	Positioning of Particles in Active Droplets. <i>Physical Review Letters</i> , 2018, 121, 158102.	7.8	24
15	Growth and division of active droplets provides a model for protocells. <i>Nature Physics</i> , 2017, 13, 408-413.	16.7	304
16	Receptor arrays optimized for natural odor statistics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5570-5575.	7.1	36
17	Polo-like kinase phosphorylation determines <i>Caenorhabditis elegans</i> centrosome size and density by biasing SPD-5 toward an assembly-competent conformation. <i>Biology Open</i> , 2016, 5, 1431-1440.	1.2	53
18	Normalized Neural Representations of Complex Odors. <i>PLoS ONE</i> , 2016, 11, e0166456.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Suppression of Ostwald ripening in active emulsions. Physical Review E, 2015, 92, 012317.	2.1	146
20	Centrosomes are autocatalytic droplets of pericentriolar material organized by centrioles. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2636-45.	7.1	187
21	Nanometer Precision in Filament Localization allows for Precise Off-Axis Tracking of Molecular Motors. Biophysical Journal, 2012, 102, 369a.	0.5	0
22	Tracking Single Particles and Elongated Filaments with Nanometer Precision. Biophysical Journal, 2011, 100, 158a.	0.5	1
23	Tracking Single Particles and Elongated Filaments with Nanometer Precision. Biophysical Journal, 2011, 100, 2820-2828.	0.5	283
24	The Hubbard model extended by nearest-neighbor Coulomb and exchange interaction on a cubic cluster – rigorous and exact results. Annalen Der Physik, 2010, 522, 419-439.	2.4	9
25	Robust circadian clocks from coupled protein-modification and transcription-translation cycles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22540-22545.	7.1	75
26	Filament Localization with Nanometer Accuracy. Biophysical Journal, 2010, 98, 363a.	0.5	0
27	Migration of di- and tri-interstitials in silicon. Nuclear Instruments & Methods in Physics Research B, 2005, 228, 212-217.	1.4	3
28	Atomistic study of the migration of di- and tri-interstitials in silicon. Physical Review B, 2005, 71, .	3.2	42