

Christoph A Weber

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

3,460
citations

623734

14
h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

4190
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid-Liquid Phase Separation in Biology. Annual Review of Cell and Developmental Biology, 2014, 30, 39-58.	9.4	2,234
2	Growth and division of active droplets provides a model for protocells. Nature Physics, 2017, 13, 408-413.	16.7	304
3	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. Cell, 2016, 166, 1572-1584.e16.	28.9	283
4	Physics of active emulsions. Reports on Progress in Physics, 2019, 82, 064601.	20.1	176
5	Local thermodynamics govern formation and dissolution of <i>Caenorhabditis elegans</i> P granule condensates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	64
6	Polar pattern formation in driven filament systems requires non-binary particle collisions. Nature Physics, 2015, 11, 839-843.	16.7	52
7	Random bursts determine dynamics of active filaments. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10703-10707.	7.1	48
8	Liquid Phase Separation Controlled by pH. Biophysical Journal, 2020, 119, 1590-1605.	0.5	43
9	Multiscale modeling of bacterial colonies: how pili mediate the dynamics of single cells and cellular aggregates. New Journal of Physics, 2017, 19, 015003.	2.9	37
10	Droplet ripening in concentration gradients. New Journal of Physics, 2017, 19, 053021.	2.9	29
11	Quantitative theory for the diffusive dynamics of liquid condensates. ELife, 2021, 10, .	6.0	22
12	Optimal control strategies for inhibition of protein aggregation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14593-14598.	7.1	21
13	Accelerated Ripening in Chemically Fueled Emulsions**. ChemSystemsChem, 2021, 3, e2000034.	2.6	18
14	Thermodynamics of wetting, prewetting and surface phase transitions with surface binding. New Journal of Physics, 2021, 23, 123003.	2.9	18
15	Parasitic behavior in competing chemically fueled reaction cycles. Chemical Science, 2021, 12, 7554-7560.	7.4	17
16	Flow-Driven Branching in a Frangible Porous Medium. Physical Review Letters, 2020, 125, 158002.	7.8	15
17	Formation and dissolution of bacterial colonies. Physical Review E, 2015, 92, 032704.	2.1	14
18	Stochastic dynamics of single molecules across phase boundaries. Physical Review Research, 2021, 3, .	3.6	14

#	ARTICLE	IF	CITATIONS
19	Differential Activity-Driven Instabilities in Biphasic Active Matter. <i>Physical Review Letters</i> , 2018, 120, 248003.	7.8	11
20	Controlling composition of coexisting phases via molecular transitions. <i>Biophysical Journal</i> , 2021, 120, 4682-4697.	0.5	11
21	How bacterial cells and colonies move on solid substrates. <i>Physical Review E</i> , 2019, 99, 042419.	2.1	10
22	Discontinuous switching of position of two coexisting phases. <i>New Journal of Physics</i> , 2018, 20, 075009.	2.9	8
23	Drops in cells. <i>Physics Today</i> , 2021, 74, 38-43.	0.3	5