

Christoph A Weber

List of Publications by Year in descending order

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23
papers

3,460
citations

623734

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h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

4190
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated Ripening in Chemically Fueled Emulsions**. ChemSystemsChem, 2021, 3, e2000034.	2.6	18
2	Parasitic behavior in competing chemically fueled reaction cycles. Chemical Science, 2021, 12, 7554-7560.	7.4	17
3	Drops in cells. Physics Today, 2021, 74, 38-43.	0.3	5
4	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
5	Controlling composition of coexisting phases via molecular transitions. Biophysical Journal, 2021, 120, 4682-4697.	0.5	11
6	Thermodynamics of wetting, prewetting and surface phase transitions with surface binding. New Journal of Physics, 2021, 23, 123003.	2.9	18
7	Quantitative theory for the diffusive dynamics of liquid condensates. ELife, 2021, 10, .	6.0	22
8	Stochastic dynamics of single molecules across phase boundaries. Physical Review Research, 2021, 3, .	3.6	14
9	Flow-Driven Branching in a Frangible Porous Medium. Physical Review Letters, 2020, 125, 158002.	7.8	15
10	Liquid Phase Separation Controlled by pH. Biophysical Journal, 2020, 119, 1590-1605.	0.5	43
11	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
12	How bacterial cells and colonies move on solid substrates. Physical Review E, 2019, 99, 042419.	2.1	10
13	Physics of active emulsions. Reports on Progress in Physics, 2019, 82, 064601.	20.1	176
14	Discontinuous switching of position of two coexisting phases. New Journal of Physics, 2018, 20, 075009.	2.9	8
15	Differential Activity-Driven Instabilities in Biphasic Active Matter. Physical Review Letters, 2018, 120, 248003.	7.8	11
16	Growth and division of active droplets provides a model for protocells. Nature Physics, 2017, 13, 408-413.	16.7	304
17	Droplet ripening in concentration gradients. New Journal of Physics, 2017, 19, 053021.	2.9	29
18	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

#	ARTICLE	IF	CITATIONS
19	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. <i>Cell</i> , 2016, 166, 1572-1584.e16.	28.9	283
20	Formation and dissolution of bacterial colonies. <i>Physical Review E</i> , 2015, 92, 032704.	2.1	14
21	Polar pattern formation in driven filament systems requires non-binary particle collisions. <i>Nature Physics</i> , 2015, 11, 839-843.	16.7	52
22	Random bursts determine dynamics of active filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10703-10707.	7.1	48
23	Liquid-Liquid Phase Separation in Biology. <i>Annual Review of Cell and Developmental Biology</i> , 2014, 30, 39-58.	9.4	2,234