Jing Yan

List of Publications by Year
in descending order

32 papers	2,579 citations	331259 21 h-index	414034 32 g-index
38 all docs	38 docs citations	38 times ranked	3029 citing authors

#	Article	IF	Citations
1	Reconfiguring active particles by electrostaticÂimbalance. Nature Materials, 2016, 15, 1095-1099.	13.3	414
2	Surviving as a Community: Antibiotic Tolerance and Persistence in Bacterial Biofilms. Cell Host and Microbe, 2019, 26, 15-21.	5.1	380
3	Linking synchronization to self-assembly using magnetic Janus colloids. Nature, 2012, 491, 578-581.	13.7	339
4	Vibrio cholerae biofilm growth program and architecture revealed by single-cell live imaging. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5337-43.	3.3	159
5	Colloidal ribbons and rings from Janus magnetic rods. Nature Communications, 2013, 4, 1516.	5.8	140
6	Extracellular-matrix-mediated osmotic pressure drives Vibrio cholerae biofilm expansion and cheater exclusion. Nature Communications, 2017, 8, 327.	5.8	119
7	Verticalization of bacterial biofilms. Nature Physics, 2018, 14, 954-960.	6.5	92
8	Directed Selfâ€Assembly Pathways of Active Colloidal Clusters. Angewandte Chemie - International Edition, 2016, 55, 5166-5169.	7.2	87
9	Nonuniform growth and surface friction determine bacterial biofilm morphology on soft substrates. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7622-7632.	3.3	82
10	Effective temperature concept evaluated in an active colloid mixture. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7513-7518.	3.3	70
11	Mechanical instability and interfacial energy drive biofilm morphogenesis. ELife, 2019, 8, .	2.8	67
12	Flow environment and matrix structure interact to determine spatial competition in Pseudomonas aeruginosa biofilms. ELife, 2017, 6, .	2.8	65
13	Bacterial Biofilm Material Properties Enable Removal and Transfer by Capillary Peeling. Advanced Materials, 2018, 30, e1804153.	11.1	62
14	Active phase separation by turning towards regions of higher density. Nature Physics, 2021, 17, 961-967.	6.5	61
15	Electrospun Nanofibers for New Generation Flexible Energy Storage. Energy and Environmental Materials, 2021, 4, 502-521.	7.3	57
16	Orientationally Glassy Crystals of Janus Spheres. Physical Review Letters, 2014, 112, .	2.9	50
17	Morphogenesis and cell ordering in confined bacterial biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	47
18	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. Physical Biology, 2021, 18, 051501.	0.8	46

#	Article	IF	Citations
19	Environmental fluctuation governs selection for plasticity in biofilm production. ISME Journal, 2017, 11, 1569-1577.	4.4	45
20	Mechanical forces drive a reorientation cascade leading to biofilm self-patterning. Nature Communications, 2021, 12, 6632.	5.8	41
21	Searching for the Secret of Stickiness: How Biofilms Adhere to Surfaces. Frontiers in Microbiology, 2021, 12, 686793.	1.5	24
22	Surfactant-Mediated Assembly of Amphiphilic Janus Spheres. Langmuir, 2019, 35, 6106-6111.	1.6	21
23	A Scalable Platform for Functional Nanomaterials via Bubbleâ€Bursting. Advanced Materials, 2016, 28, 4047-4052.	11.1	19
24	CO₂-Driven diffusiophoresis for maintaining a bacteria-free surface. Soft Matter, 2021, 17, 2568-2576.	1.2	15
25	Social evolution of shared biofilm matrix components. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
26	Low-temperature sintering and microwave dielectric properties of ZnTiO3-based LTCC materials. Journal of Electroceramics, 2008, 21, 141-144.	0.8	13
27	Directed Selfâ€Assembly Pathways of Active Colloidal Clusters. Angewandte Chemie, 2016, 128, 5252-5255.	1.6	13
28	Impact of a human gut microbe on Vibrio cholerae host colonization through biofilm enhancement. ELife, 2022, 11, .	2.8	9
29	Mechanical Resilience of Biofilms toward Environmental Perturbations Mediated by Extracellular Matrix. Advanced Functional Materials, 2022, 32, .	7.8	8
30	Effects of ZnOâ€“xV2O5 substitution on the microstructure and microwave dielectric properties of ZnNb2O6 ceramics. Journal of Electroceramics, 2008, 21, 116-119.	0.8	6
31	Nonlinear inclusion theory with application to the growth and morphogenesis of a confined body. Journal of the Mechanics and Physics of Solids, 2022, 159, 104709.	2.3	6
32	Bacterial Surface Detachment during Nebulization with Contaminated Reusable Home Nebulizers. Microbiology Spectrum, 2022, 10, e0253521.	1.2	4