

Fan Jin

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,488
citations

236612

25
h-index

205818

48
g-index

60
all docs

60
docs citations

60
times ranked

3350
citing authors

#	ARTICLE	IF	CITATIONS
1	Psl trails guide exploration and microcolony formation in <i>Pseudomonas aeruginosa</i> biofilms. <i>Nature</i> , 2013, 497, 388-391.	13.7	308
2	Flagella and Pili-Mediated Near-Surface Single-Cell Motility Mechanisms in <i>P. aeruginosa</i> . <i>Biophysical Journal</i> , 2011, 100, 1608-1616.	0.2	197
3	Bacteria Use Type IV Pili to Walk Upright and Detach from Surfaces. <i>Science</i> , 2010, 330, 197-197.	6.0	168
4	Revisit complexation between DNA and polyethylenimine – Effect of uncomplexed chains free in the solution mixture on gene transfection. <i>Journal of Controlled Release</i> , 2011, 155, 67-76.	4.8	155
5	Revisit the complexation of PEI and DNA – How to make low cytotoxic and highly efficient PEI gene transfection non-viral vectors with a controllable chain length and structure?. <i>Journal of Controlled Release</i> , 2009, 140, 40-46.	4.8	143
6	Revisit complexation between DNA and polyethylenimine – Effect of length of free polycationic chains on gene transfection. <i>Journal of Controlled Release</i> , 2011, 152, 143-151.	4.8	132
7	Bacteria use type-IV pili to slingshot on surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12617-12622.	3.3	115
8	Slow Relaxation Mode in Mixtures of Water and Organic Molecules: – Supramolecular Structures or Nanobubbles?. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2255-2261.	1.2	103
9	Effects of pH and Ionic Strength on the Stability of Nanobubbles in Aqueous Solutions of β -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11745-11749.	1.2	103
10	Heterogeneity in surface sensing suggests a division of labor in <i>Pseudomonas aeruginosa</i> populations. <i>ELife</i> , 2019, 8, .	2.8	96
11	Liquid-crystalline ordering of antimicrobial peptide – DNA complexes controls TLR9 activation. <i>Nature Materials</i> , 2015, 14, 696-700.	13.3	75
12	Observation of the First-Order Transition in Ultrafiltration of Flexible Linear Polymer Chains. <i>Physical Review Letters</i> , 2006, 96, 237801.	2.9	66
13	Helical antimicrobial peptides assemble into protofibril scaffolds that present ordered dsDNA to TLR9. <i>Nature Communications</i> , 2019, 10, 1012.	5.8	53
14	Bioprinting Living Biofilms through Optogenetic Manipulation. <i>ACS Synthetic Biology</i> , 2018, 7, 1195-1200.	1.9	51
15	Promoting bidirectional extracellular electron transfer of <i>Shewanella oneidensis</i> for hexavalent chromium reduction via elevating intracellular cAMP level. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1294-1303.	1.7	48
16	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. <i>Physical Biology</i> , 2021, 18, 051501.	0.8	46
17	Two – Photon Ratiometric Fluorescent Mapping of Intracellular Transport Pathways of pH – Responsive Block Copolymer Micellar Nanocarriers. <i>Advanced Healthcare Materials</i> , 2013, 2, 1576-1581.	3.9	44
18	Observation of Kinetic and Structural Scalings during Slow Coalescence of Nanobubbles in an Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13143-13146.	1.2	43

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19	How Much Force Is Needed To Stretch a Coiled Chain in Solution?. <i>Macromolecules</i> , 2009, 42, 4400-4402.	2.2	41
20	Synergistically Enhance Magnetic Resonance/Fluorescence Imaging Performance of Responsive Polymeric Nanoparticles Under Mildly Acidic Biological Milieu. <i>Macromolecular Rapid Communications</i> , 2013, 34, 749-758.	2.0	40
21	Optogenetics Manipulation Enables Prevention of Biofilm Formation of Engineered <i>Pseudomonas aeruginosa</i> on Surfaces. <i>ACS Synthetic Biology</i> , 2018, 7, 200-208.	1.9	40
22	Conditional privatization of a public siderophore enables <i>Pseudomonas aeruginosa</i> to resist cheater invasion. <i>Nature Communications</i> , 2018, 9, 1383.	5.8	39
23	Direct measurement of the nanobubble-induced weak depletion attraction between a spherical particle and a flat surface in an aqueous solution. <i>Soft Matter</i> , 2008, 4, 968.	1.2	36
24	Quantitative study of effects of free cationic chains on gene transfection in different intracellular stages. <i>Journal of Controlled Release</i> , 2016, 238, 71-79.	4.8	36
25	Bacteria differently deploy type-IV pili on surfaces to adapt to nutrient availability. <i>Npj Biofilms and Microbiomes</i> , 2016, 2, 15029.	2.9	35
26	Bacteria slingshot more on soft surfaces. <i>Nature Communications</i> , 2014, 5, 5541.	5.8	25
27	Laser-Light-Scattering Study of Internal Motions of Polymer Chains Grafted on Spherical Latex Particles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18479-18484.	1.2	23
28	How does a polymer chain pass through a cylindrical pore under an elongational flow field?. <i>Polymer</i> , 2015, 67, A1-A13.	1.8	20
29	Charging and discharging of single colloidal particles at oil/water interfaces. <i>Scientific Reports</i> , 2014, 4, 4778.	1.6	20
30	A review of immune amplification via ligand clustering by self-assembled liquid-crystalline DNA complexes. <i>Advances in Colloid and Interface Science</i> , 2016, 232, 17-24.	7.0	18
31	How Are Insoluble Blocks Interacted with and Packed Inside a Micelle Made of Block Copolymers in a Selective Solvent?. <i>Macromolecules</i> , 2008, 41, 8220-8224.	2.2	17
32	Differential Production of Psl in Planktonic Cells Leads to Two Distinctive Attachment Phenotypes in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	16
33	Depletion Attraction between a Polystyrene Particle and a Hydrophilic Surface in a Pluronic Aqueous Solution. <i>Langmuir</i> , 2008, 24, 13912-13917.	1.6	15
34	Carbon Starvation Induces the Expression of PprB-Regulated Genes in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	14
35	Emergence of complex behavior in pili-based motility in early stages of <i>P. aeruginosa</i> surface adaptation. <i>Scientific Reports</i> , 2017, 7, 45467.	1.6	13
36	Engineering Gac/Rsm Signaling Cascade for Optogenetic Induction of the Pathogenicity Switch in <i>Pseudomonas aeruginosa</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 1520-1530.	1.9	13

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37	Mechanism of two-dimensional crystal formation from soft microgel particles. <i>Soft Matter</i> , 2013, 9, 9924.	1.2	11
38	Optogenetic Modification of <i>Pseudomonas aeruginosa</i> Enables Controllable Twitching Motility and Host Infection. <i>ACS Synthetic Biology</i> , 2021, 10, 531-541.	1.9	11
39	Dual-Color Fluorescent Timer Enables Detection of Growth-Arrested Pathogenic Bacterium. <i>ACS Infectious Diseases</i> , 2018, 4, 1666-1670.	1.8	10
40	Bis[alkynylplatinum(II)] terpyridine molecular tweezer with conformationally-rigid spacer: modulating the binding selectivity in a three-component supramolecular recognition system. <i>Dalton Transactions</i> , 2016, 45, 17290-17295.	1.6	9
41	Simultaneous Visualization of Multiple Gene Expression in Single Cells Using an Engineered Multicolor Reporter Toolbox and Approach of Spectral Crosstalk Correction. <i>ACS Synthetic Biology</i> , 2019, 8, 2536-2546.	1.9	8
42	Dynamic and structural scalings of the complexation between pDNA and pPEI in semidilute and low-salt solutions. <i>Biopolymers</i> , 2010, 93, NA-NA.	1.2	6
43	Influence of an Additive-Free Particle Spreading Method on Interactions between Charged Colloidal Particles at an Oil/Water Interface. <i>Langmuir</i> , 2016, 32, 4909-4916.	1.6	6
44	Strong Shear Flow Persister Bacteria Resist Mechanical Washings on the Surfaces of Various Polymer Materials. <i>Advanced Biology</i> , 2017, 1, e1700161.	3.0	6
45	Imaging the Separation Distance between the Attached Bacterial Cells and the Surface with a Total Internal Reflection Dark-Field Microscope. <i>Langmuir</i> , 2019, 35, 8860-8866.	1.6	4
46	Structure and Kinetics of Cluster Decomposition of Polystyrene Star Chains in Dilute Solutions. <i>Macromolecules</i> , 2007, 40, 6796-6798.	2.2	1
47	A Synthetic Genetic Circuit Enables Precise Quantification of Direct Repeat Deletion in Bacteria. <i>ACS Synthetic Biology</i> , 2020, 9, 1041-1050.	1.9	1