## Fan Jin

## List of Publications by Year in descending order

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EAN LIN

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. Physical Biology, 2021, 18, 051501.  | 1.8  | 46        |
| 2  | Optogenetic Modification of <i>Pseudomonas aeruginosa</i> Enables Controllable Twitching Motility and Host Infection. ACS Synthetic Biology, 2021, 10, 531-541.   | 3.8  | 11        |
| 3  | Engineering Gac/Rsm Signaling Cascade for Optogenetic Induction of the Pathogenicity Switch in<br><i>Pseudomonas aeruginosa</i> . ACS Synthetic Biology, 2021, 10, 1520-1530.   | 3.8  | 13        |
| 4  | Promoting bidirectional extracellular electron transfer of <i>Shewanella oneidensis</i> MRâ€1 for<br>hexavalent chromium reduction via elevating intracellular cAMP level. Biotechnology and<br>Bioengineering, 2020, 117, 1294-1303. | 3.3  | 48        |
| 5  | A Synthetic Genetic Circuit Enables Precise Quantification of Direct Repeat Deletion in Bacteria. ACS<br>Synthetic Biology, 2020, 9, 1041-1050.   | 3.8  | 1         |
| 6  | Simultaneous Visualization of Multiple Gene Expression in Single Cells Using an Engineered<br>Multicolor Reporter Toolbox and Approach of Spectral Crosstalk Correction. ACS Synthetic Biology,<br>2019, 8, 2536-2546.                | 3.8  | 8         |
| 7  | Imaging the Separation Distance between the Attached Bacterial Cells and the Surface with a Total<br>Internal Reflection Dark-Field Microscope. Langmuir, 2019, 35, 8860-8866.  | 3.5  | 4         |
| 8  | Helical antimicrobial peptides assemble into protofibril scaffolds that present ordered dsDNA to TLR9.<br>Nature Communications, 2019, 10, 1012.  | 12.8 | 53        |
| 9  | Carbon Starvation Induces the Expression of PprB-Regulated Genes in Pseudomonas aeruginosa.<br>Applied and Environmental Microbiology, 2019, 85, .  | 3.1  | 14        |
| 10 | Heterogeneity in surface sensing suggests a division of labor in Pseudomonas aeruginosa populations.<br>ELife, 2019, 8, .   | 6.0  | 96        |
| 11 | Conditional privatization of a public siderophore enables Pseudomonas aeruginosa to resist cheater invasion. Nature Communications, 2018, 9, 1383.  | 12.8 | 39        |
| 12 | Bioprinting Living Biofilms through Optogenetic Manipulation. ACS Synthetic Biology, 2018, 7, 1195-1200.  | 3.8  | 51        |
| 13 | Optogenetics Manipulation Enables Prevention of Biofilm Formation of Engineered <i>Pseudomonas aeruginosa</i> on Surfaces. ACS Synthetic Biology, 2018, 7, 200-208.   | 3.8  | 40        |
| 14 | Dual-Color Fluorescent Timer Enables Detection of Growth-Arrested Pathogenic Bacterium. ACS<br>Infectious Diseases, 2018, 4, 1666-1670.   | 3.8  | 10        |
| 15 | Differential Production of Psl in Planktonic Cells Leads to Two Distinctive Attachment Phenotypes in<br>Pseudomonas aeruginosa. Applied and Environmental Microbiology, 2018, 84, .   | 3.1  | 16        |
| 16 | Emergence of complex behavior in pili-based motility in early stages of P. aeruginosa surface<br>adaptation. Scientific Reports, 2017, 7, 45467.  | 3.3  | 13        |
| 17 | Strong Shear Flow Persister Bacteria Resist Mechanical Washings on the Surfaces of Various Polymer Materials. Advanced Biology, 2017, 1, e1700161.  | 3.0  | 6         |
| 18 | Influence of an Additive-Free Particle Spreading Method on Interactions between Charged Colloidal<br>Particles at an Oil/Water Interface. Langmuir, 2016, 32, 4909-4916.  | 3.5  | 6         |

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|----|--|------|-----------|
| 19 | Bis[alkynylplatinum( <scp>ii</scp> )] terpyridine molecular tweezer with conformationally-rigid spacer: modulating the binding selectivity in a three-component supramolecular recognition system. Dalton Transactions, 2016, 45, 17290-17295. | 3.3  | 9         |
| 20 | Quantitative study of effects of free cationic chains on gene transfection in different intracellular stages. Journal of Controlled Release, 2016, 238, 71-79.   | 9.9  | 36        |
| 21 | Bacteria differently deploy type-IV pili on surfaces to adapt to nutrient availability. Npj Biofilms and<br>Microbiomes, 2016, 2, 15029.   | 6.4  | 35        |
| 22 | A review of immune amplification via ligand clustering by self-assembled liquid–crystalline DNA complexes. Advances in Colloid and Interface Science, 2016, 232, 17-24.  | 14.7 | 18        |
| 23 | Liquid-crystalline ordering of antimicrobial peptide–DNA complexes controls TLR9 activation. Nature<br>Materials, 2015, 14, 696-700.   | 27.5 | 75        |
| 24 | How does a polymer chain pass through a cylindrical pore under anÂelongational flow field?. Polymer,<br>2015, 67, A1-A13.  | 3.8  | 20        |
| 25 | Bacteria slingshot more on soft surfaces. Nature Communications, 2014, 5, 5541.  | 12.8 | 25        |
| 26 | Charging and discharging of single colloidal particles at oil/water interfaces. Scientific Reports, 2014, 4, 4778.   | 3.3  | 20        |
| 27 | Mechanism of two-dimensional crystal formation from soft microgel particles. Soft Matter, 2013, 9, 9924.   | 2.7  | 11        |
| 28 | Psl trails guide exploration and microcolony formation in Pseudomonas aeruginosa biofilms. Nature, 2013, 497, 388-391.   | 27.8 | 308       |
| 29 | Twoâ€Photon Ratiometric Fluorescent Mapping of Intracellular Transport Pathways of pHâ€Responsive<br>Block Copolymer Micellar Nanocarriers. Advanced Healthcare Materials, 2013, 2, 1576-1581.   | 7.6  | 44        |
| 30 | Synergistically Enhance Magnetic Resonance/Fluorescence Imaging Performance of Responsive<br>Polymeric Nanoparticles Under Mildly Acidic Biological Milieu. Macromolecular Rapid<br>Communications, 2013, 34, 749-758.                         | 3.9  | 40        |
| 31 | Flagella and Pili-Mediated Near-Surface Single-Cell Motility Mechanisms in P. aeruginosa. Biophysical<br>Journal, 2011, 100, 1608-1616.  | 0.5  | 197       |
| 32 | Revisit complexation between DNA and polyethylenimine — Effect of uncomplexed chains free in the solution mixture on gene transfection. Journal of Controlled Release, 2011, 155, 67-76.   | 9.9  | 155       |
| 33 | Revisit complexation between DNA and polyethylenimine — Effect of length of free polycationic chains on gene transfection. Journal of Controlled Release, 2011, 152, 143-151.  | 9.9  | 132       |
| 34 | Bacteria use type-IV pili to slingshot on surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12617-12622.   | 7.1  | 115       |
| 35 | Dynamic and structural scalings of the complexation betweenpDNA andbPEI in semidilute and low-salt solutions. Biopolymers, 2010, 93, NA-NA.  | 2.4  | 6         |
| 36 | Bacteria Use Type IV Pili to Walk Upright and Detach from Surfaces. Science, 2010, 330, 197-197.   | 12.6 | 168       |

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|----|--|-----|-----------|
| 37 | 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?. Journal of Controlled Release, 2009, 140, 40-46. | 9.9 | 143       |
| 38 | How Much Force Is Needed To Stretch a Coiled Chain in Solution?. Macromolecules, 2009, 42, 4400-4402.  | 4.8 | 41        |
| 39 | Direct measurement of the nanobubble-induced weak depletion attraction between a spherical particle<br>and a flat surface in an aqueous solution. Soft Matter, 2008, 4, 968.   | 2.7 | 36        |
| 40 | Depletion Attraction between a Polystyrene Particle and a Hydrophilic Surface in a Pluronic Aqueous<br>Solution. Langmuir, 2008, 24, 13912-13917.  | 3.5 | 15        |
| 41 | How Are Insoluble Blocks Interacted with and Packed Inside a Micelle Made of Block Copolymers in a Selective Solvent?. Macromolecules, 2008, 41, 8220-8224.  | 4.8 | 17        |
| 42 | Slow Relaxation Mode in Mixtures of Water and Organic Molecules:Â Supramolecular Structures or<br>Nanobubbles?. Journal of Physical Chemistry B, 2007, 111, 2255-2261.   | 2.6 | 103       |
| 43 | Observation of Kinetic and Structural Scalings during Slow Coalescence of Nanobubbles in an Aqueous Solution. Journal of Physical Chemistry B, 2007, 111, 13143-13146.   | 2.6 | 43        |
| 44 | Structure and Kinetics of Cluster Decomposition of Polystyrene Star Chains in Dilute Solutions.<br>Macromolecules, 2007, 40, 6796-6798.  | 4.8 | 1         |
| 45 | Effects of pH and Ionic Strength on the Stability of Nanobubbles in Aqueous Solutions of<br>α-Cyclodextrin. Journal of Physical Chemistry B, 2007, 111, 11745-11749.   | 2.6 | 103       |
| 46 | Observation of the First-Order Transition in Ultrafiltration of Flexible Linear Polymer Chains.<br>Physical Review Letters, 2006, 96, 237801.  | 7.8 | 66        |
| 47 | Laser-Light-Scattering Study of Internal Motions of Polymer Chains Grafted on Spherical Latex<br>Particles. Journal of Physical Chemistry B, 2004, 108, 18479-18484.   | 2.6 | 23        |