

# Jia Geng

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,905  
citations

331670

21  
h-index

265206

42  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2897  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic transport through carbon nanotubes in lipid bilayers and live cell membranes. <i>Nature</i> , 2014, 514, 612-615.	27.8	350
2	Translocation of double-stranded DNA through membrane-adapted phi29 motor protein nanopores. <i>Nature Nanotechnology</i> , 2009, 4, 765-772.	31.5	250
3	Effective and Targeted Human Orthotopic Glioblastoma Xenograft Therapy via a Multifunctional Biomimetic Nanomedicine. <i>Advanced Materials</i> , 2018, 30, e1803717.	21.0	148
4	Genomic monitoring of SARS-CoV-2 uncovers an Nsp1 deletion variant that modulates type I interferon response. <i>Cell Host and Microbe</i> , 2021, 29, 489-502.e8.	11.0	95
5	Homogeneous Visual and Fluorescence Detection of Circulating Tumor Cells in Clinical Samples via Selective Recognition Reaction and Enzyme-Free Amplification. <i>ACS Nano</i> , 2021, 15, 11634-11643.	14.6	81
6	Fabrication of PHBV/keratin composite nanofibrous mats for biomedical applications. <i>Macromolecular Research</i> , 2009, 17, 850-855.	2.4	73
7	Novel wound dressing based on nanofibrous PHBV-keratin mats. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 1027-1035.	2.7	60
8	Three reversible and controllable discrete steps of channel gating of a viral DNA packaging motor. <i>Biomaterials</i> , 2011, 32, 8234-8242.	11.4	52
9	Channel Size Conversion of Phi29 DNA-Packaging Nanomotor for Discrimination of Single- and Double-Stranded Nucleic Acids. <i>ACS Nano</i> , 2013, 7, 3315-3323.	14.6	44
10	Hyaluronan Reduces Cationic Liposome-Induced Toxicity and Enhances the Antitumor Effect of Targeted Gene Delivery in Mice. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32006-32016.	8.0	43
11	Rapid and simple detection of ascorbic acid and alkaline phosphatase via controlled generation of silver nanoparticles and selective recognition. <i>Analyst</i> , 2019, 144, 1147-1152.	3.5	43
12	Detection of Circulating Tumor Cells in Breast Cancer Patients by Nanopore Sensing with Aptamer-Mediated Amplification. <i>ACS Sensors</i> , 2020, 5, 2359-2366.	7.8	43
13	Structural basis for gating mechanism of Pannexin 1 channel. <i>Cell Research</i> , 2020, 30, 452-454.	12.0	43
14	Multimode MicroRNA Sensing via Multiple Enzyme-Free Signal Amplification and Cation-Exchange Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36476-36484.	8.0	41
15	Osmotically-Driven Transport in Carbon Nanotube Porins. <i>Nano Letters</i> , 2014, 14, 7051-7056.	9.1	39
16	Incorporation of a viral DNA-packaging motor channel in lipid bilayers for real-time, single-molecule sensing of chemicals and double-stranded DNA. <i>Nature Protocols</i> , 2013, 8, 373-392.	12.0	32
17	Cell-free production of a functional oligomeric form of a Chlamydia major outer-membrane protein (MOMP) for vaccine development. <i>Journal of Biological Chemistry</i> , 2017, 292, 15121-15132.	3.4	28
18	Electrospinning of antibacterial poly(vinylidene fluoride) nanofibers containing silver nanoparticles. <i>Journal of Applied Polymer Science</i> , 2010, 116, 668-672.	2.6	25

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19	Negative regulation of cationic nanoparticle-induced inflammatory toxicity through the increased production of prostaglandin E2 via mitochondrial DNA-activated Ly6C <sup>+</sup> monocytes. <i>Theranostics</i> , 2018, 8, 3138-3152.	10.0	25
20	Active DNA unwinding and transport by a membrane-adapted helicase nanopore. <i>Nature Communications</i> , 2019, 10, 5083.	12.8	25
21	Crystal structure of the bacterial acetate transporter SatP reveals that it forms a hexameric channel. <i>Journal of Biological Chemistry</i> , 2018, 293, 19492-19500.	3.4	24
22	Histones released by NETosis enhance the infectivity of SARS-CoV-2 by bridging the spike protein subunit 2 and sialic acid on host cells. , 2022, 19, 577-587.		22
23	Sensitive CVG-AFS/ICP-MS label-free nucleic acid and protein assays based on a selective cation exchange reaction and simple filtration separation. <i>Analyst</i> , The, 2019, 144, 2797-2802.	3.5	20
24	Ultrasensitive Nanopore Sensing of Mucin 1 and Circulating Tumor Cells in Whole Blood of Breast Cancer Patients by Analyte-Triggered Triplex-DNA Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21030-21039.	8.0	20
25	Visual and dual-fluorescence homogeneous sensor for the detection of pyrophosphatase in clinical hyperthyroidism samples based on selective recognition of CdTe QDs and coordination polymerization of Ce <sup>3+</sup> . <i>Journal of Materials Chemistry C</i> , 2021, 9, 4141-4149.	5.5	19
26	Single-molecule investigation of human telomeric G-quadruplex interactions with Thioflavin T. <i>Chinese Chemical Letters</i> , 2018, 29, 531-534.	9.0	18
27	Rapid and highly sensitive visual detection of oxalate for metabolic assessment of urolithiasis via selective recognition reaction of CdTe quantum dots. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7677-7684.	5.8	18
28	Single-Molecule Interaction of Peptides with a Biological Nanopore for Identification of Protease Activity. <i>Small Methods</i> , 2020, 4, 1900892.	8.6	18
29	Exonuclease III-assisted strand displacement reaction-driven cyclic generation of G-quadruplex strategy for homogeneous fluorescent detection of melamine. <i>Talanta</i> , 2019, 203, 255-260.	5.5	16
30	Cryo-EM structures of human TMEM120A and TMEM120B. <i>Cell Discovery</i> , 2021, 7, 77.	6.7	16
31	Rapid Nanopore Assay for Carbapenem-Resistant <i>Klebsiella pneumoniae</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 1672.	3.5	15
32	Formation of lipid bilayers inside microfluidic channel array for monitoring membrane-embedded nanopores of phi29 DNA packaging nanomotor. <i>Biomedical Microdevices</i> , 2012, 14, 921-928.	2.8	14
33	Real-time sensing of neurotransmitters by functionalized nanopores embedded in a single live cell. <i>Molecular Biomedicine</i> , 2021, 2, 6.	4.4	14
34	Low-Cost and Scalable Platform with Multiplexed Microwell Array Biochip for Rapid Diagnosis of COVID-19. <i>Research</i> , 2021, 2021, 2813643.	5.7	13
35	A general strategy for label-free homogeneous bioassays based on selective recognition and silver ion-mediated conformational switch. <i>Talanta</i> , 2019, 201, 9-15.	5.5	12
36	Biological nanopores for sensing applications. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 1786-1799.	2.6	12

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37	Development of a fluorescent DNA nanomachine for ultrasensitive detection of Salmonella enteritidis without labeling and enzymes. <i>Mikrochimica Acta</i> , 2020, 187, 376.	5.0	11
38	The structure and unzipping behavior of dumbbell and hairpin DNA revealed by real-time nanopore sensing. <i>Nanoscale</i> , 2021, 13, 11827-11835.	5.6	10
39	Structural characterization of the Plasmodium falciparum lactate transporter PfFNT alone and in complex with antimalarial compound MMV007839 reveals its inhibition mechanism. <i>PLoS Biology</i> , 2021, 19, e3001386.	5.6	10
40	Advanced techniques for gene heterogeneity research: Single-cell sequencing and on-chip gene analysis systems. <i>View</i> , 2022, 3, .	5.3	9
41	Thiol inhibition of Hg cold vapor generation in SnCl <sub>2</sub> /NaBH <sub>4</sub> system: A homogeneous bioassay for H <sub>2</sub> O <sub>2</sub> /glucose and butyrylcholinesterase/pesticide sensing by atomic spectrometry. <i>Analytica Chimica Acta</i> , 2020, 1111, 8-15.	5.4	7
42	Insight into How Telomeric G-quadruplexes Enhance the Peroxidase Activity of Cellular Hemin. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1805-1810.	3.3	6
43	The Long-Term Efficacy and Safety of Carotid Artery Stenting among the Elderly: A Single-Center Study in China. <i>Behavioural Neurology</i> , 2018, 2018, 1-7.	2.1	6
44	Simultaneous Discrimination of Single-Base Mismatch and Full Match Using a Label-Free Single-Molecule Strategy. <i>Analytical Chemistry</i> , 2018, 90, 8102-8107.	6.5	6
45	A designed locked nucleic acid-based nanopore for discriminating ctDNA and its coexisting analogue ncDNA. <i>Chinese Chemical Letters</i> , 2020, 31, 172-176.	9.0	6
46	High-fidelity biosensing of dNTPs and nucleic acids by controllable subnanometer channel PaMscS. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113894.	10.1	6
47	Detection of nucleic acids via G-quadruplex-controlled l-cysteine oxidation and catalyzed hairpin assembly-assisted signal amplification. <i>RSC Advances</i> , 2018, 8, 40564-40569.	3.6	4
48	Two novel <i>BTD</i> mutations causing profound biotinidase deficiency in a Chinese patient. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2021, 9, e1591.	1.2	3
49	Fluorescence and visual immunoassay of HIV-1 p24 antigen in clinical samples via multiple selective recognitions of CdTe QDs. <i>Mikrochimica Acta</i> , 2021, 188, 422.	5.0	3
50	VERSATILE DNA-PACKAGING NANOMOTOR OF BACTERIOPHAGE phi29 WITH APPLICATIONS IN NANOBIO TECHNOLOGY. <i>Nano LIFE</i> , 2010, 01, 45-62.	0.9	2