

# Bo Cai

## List of Publications by Year in descending order

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35  
papers

2,053  
citations

516710

16  
h-index

377865

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36  
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docs citations

36  
times ranked

2936  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cancer Cell Membrane-Coated Upconversion Nanoprobes for Highly Specific Tumor Imaging. <i>Advanced Materials</i> , 2016, 28, 3460-3466.	21.0	420
2	Microfluidic Electroporation-Facilitated Synthesis of Erythrocyte Membrane-Coated Magnetic Nanoparticles for Enhanced Imaging-Guided Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 3496-3505.	14.6	377
3	Red Blood Cell Membrane as a Biomimetic Nanocoating for Prolonged Circulation Time and Reduced Accelerated Blood Clearance. <i>Small</i> , 2015, 11, 6225-6236.	10.0	353
4	Erythrocyte Membrane-Coated Upconversion Nanoparticles with Minimal Protein Adsorption for Enhanced Tumor Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2159-2168.	8.0	195
5	Antitumor Platelet-Mimicking Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2017, 27, 1604774.	14.9	152
6	A Biomimetic Nanodecoy Traps Zika Virus To Prevent Viral Infection and Fetal Microcephaly Development. <i>Nano Letters</i> , 2019, 19, 2215-2222.	9.1	69
7	Biocompatible TiO <sub>2</sub> nanoparticle-based cell immunoassay for circulating tumor cells capture and identification from cancer patients. <i>Biomedical Microdevices</i> , 2013, 15, 617-626.	2.8	66
8	Gelatin Nanoparticle-Coated Silicon Beads for Density-Selective Capture and Release of Heterogeneous Circulating Tumor Cells with High Purity. <i>Theranostics</i> , 2018, 8, 1624-1635.	10.0	66
9	Effect of geometric configuration on the laminar flow and heat transfer in microchannel heat sinks with cavities and fins. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 528-546.	2.1	59
10	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO <sub>2</sub> @Gel-Microbead-Based Size Difference Amplification. <i>Advanced Healthcare Materials</i> , 2016, 5, 1554-1559.	7.6	44
11	Capture and release of cancer cells using electrospun etchable MnO <sub>2</sub> nanofibers integrated in microchannels. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	41
12	Non-invasive Prenatal Diagnosis of Chromosomal Aneuploidies and Microdeletion Syndrome Using Fetal Nucleated Red Blood Cells Isolated by Nanostructure Microchips. <i>Theranostics</i> , 2018, 8, 1301-1311.	10.0	34
13	Autofluorescent gelatin nanoparticles as imaging probes to monitor matrix metalloproteinase metabolism of cancer cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2854-2860.	4.0	25
14	One-step fabrication of 3D silver paste electrodes into microfluidic devices for enhanced droplet-based cell sorting. <i>AIP Advances</i> , 2015, 5, .	1.3	24
15	Disk-like hydrogel bead-based immunofluorescence staining toward identification and observation of circulating tumor cells. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 29-37.	2.2	21
16	Highly sensitive microfluidic flow sensor based on aligned piezoelectric poly(vinylidene fluoride) thin film. <i>Sensors</i> , 2015, 15, 142-151.	3.3	21
17	Flood forecasting in urban reservoir using hybrid recurrent neural network. <i>Urban Climate</i> , 2022, 42, 101086.	5.7	12
18	Generation of BiFeO <sub>3</sub> -Fe <sub>3</sub> O <sub>4</sub> Janus particles based on droplet microfluidic method. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	11

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19	Three-dimensional valve-based controllable PDMS nozzle for dynamic modulation of droplet generation. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	11
20	Switched linear parameter-varying tracking control for quadrotors with large attitude angles and time-varying inertia. <i>Optimal Control Applications and Methods</i> , 2021, 42, 1320-1336.	2.1	11
21	An improved bulk acoustic waves chip based on a PDMS bonding layer for high-efficient particle enrichment. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	7
22	A computer-aided diagnostic system for mammograms based on YOLOv3. <i>Multimedia Tools and Applications</i> , 2022, 81, 19257-19281.	3.9	6
23	DrawnNet: Offline Hand-Drawn Diagram Recognition Based on Keypoint Prediction of Aggregating Geometric Characteristics. <i>Entropy</i> , 2022, 24, 425.	2.2	4
24	A Concentration-Controllable Microfluidic Droplet Mixer for Mercury Ion Detection. <i>Micromachines</i> , 2015, 6, 915-925.	2.9	3
25	GUI2Code: A Computer Vision Tool to Generate Code Automatically from Graphical User Interface Sketches. <i>Lecture Notes in Computer Science</i> , 2021, , 53-65.	1.3	3
26	Forest Fire Visual Tracking with Mean Shift Method and Gaussian Mixture Model. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 329-337.	0.6	3
27	Ultraviolet-assisted microfluidic generation of ferroelectric composite particles. <i>Biomicrofluidics</i> , 2016, 10, 024106.	2.4	2
28	A dynamic texture based segmentation method for ultrasound images with Surfacelet, HMT and parallel computing. <i>Multimedia Tools and Applications</i> , 2019, 78, 5381-5401.	3.9	2
29	A methodology for 3D geological mapping and implementation. <i>Multimedia Tools and Applications</i> , 2019, 78, 28703-28713.	3.9	2
30	Wild Flame Detection Using Weight Adaptive Particle Filter from Monocular Video. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 357-365.	0.6	2
31	Finite-time bounded control for quadrotors with extended dissipative performance using a switched system approach. <i>Transactions of the Institute of Measurement and Control</i> , 2022, 44, 2511-2521.	1.7	2
32	Theranostics: Antitumor Platelet-Mimicking Magnetic Nanoparticles ( <i>Adv. Funct. Mater.</i> 9/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	1
33	Novel spatial and temporal interpolation algorithms based on extended field intensity model with applications for sparse AQI. <i>Multimedia Tools and Applications</i> , 0, , 1.	3.9	1
34	Deployment Optimization of Indoor Positioning Signal Sources with Fireworks Algorithm. <i>Lecture Notes in Computer Science</i> , 2018, , 229-238.	1.3	1
35	APs Deployment Optimization for Indoor Fingerprint Positioning with Adaptive Particle Swarm Algorithm. <i>Lecture Notes in Computer Science</i> , 2018, , 218-228.	1.3	0