Bo Cai

List of Publications by Year
in descending order

35 papers	2,053 citations	516710 16 h-index	377865 34 g-index
36 all docs	36 docs citations	36 times ranked	2936 citing authors

#	Article	IF	Citations
1	A computer-aided diagnostic system for mammograms based on YOLOv3. Multimedia Tools and Applications, 2022, 81, 19257-19281.	3.9	6
2	Flood forecasting in urban reservoir using hybrid recurrent neural network. Urban Climate, 2022, 42, 101086.	5.7	12
3	DrawnNet: Offline Hand-Drawn Diagram Recognition Based on Keypoint Prediction of Aggregating Geometric Characteristics. Entropy, 2022, 24, 425.	2.2	4
4	Finite-time bounded control for quadrotors with extended dissipative performance using a switched system approach. Transactions of the Institute of Measurement and Control, 2022, 44, 2511-2521.	1.7	2
5	GUIS2Code: A Computer Vision Tool toÂGenerate Code Automatically from Graphical User Interface Sketches. Lecture Notes in Computer Science, 2021, , 53-65.	1.3	3
6	Switched linear parameterâ€varying tracking control for quadrotors with large attitude angles and timeâ€varying inertia. Optimal Control Applications and Methods, 2021, 42, 1320-1336.	2.1	11
7	A dynamic texture based segmentation method for ultrasound images with Surfacelet, HMT and parallel computing. Multimedia Tools and Applications, 2019, 78, 5381-5401.	3.9	2
8	A methodology for 3D geological mapping and implementation. Multimedia Tools and Applications, 2019, 78, 28703-28713.	3.9	2
9	A Biomimetic Nanodecoy Traps Zika Virus To Prevent Viral Infection and Fetal Microcephaly Development. Nano Letters, 2019, 19, 2215-2222.	9.1	69
10	Forest Fire Visual Tracking with Mean Shift Method and Gaussian Mixture Model. Advances in Intelligent Systems and Computing, 2019, , 329-337.	0.6	3
11	Wild Flame Detection Using Weight Adaptive Particle Filter from Monocular Video. Advances in Intelligent Systems and Computing, 2019, , 357-365.	0.6	2
12	An improved bulk acoustic waves chip based on a PDMS bonding layer for high-efficient particle enrichment. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	7
13	Non-invasive Prenatal Diagnosis of Chromosomal Aneuploidies and Microdeletion Syndrome Using Fetal Nucleated Red Blood Cells Isolated by Nanostructure Microchips. Theranostics, 2018, 8, 1301-1311.	10.0	34
14	Gelatin Nanoparticle-Coated Silicon Beads for Density-Selective Capture and Release of Heterogeneous Circulating Tumor Cells with High Purity. Theranostics, 2018, 8, 1624-1635.	10.0	66
15	APs Deployment Optimization for Indoor Fingerprint Positioning with Adaptive Particle Swarm Algorithm. Lecture Notes in Computer Science, 2018, , 218-228.	1.3	0
16	Deployment Optimization of Indoor Positioning Signal Sources with Fireworks Algorithm. Lecture Notes in Computer Science, 2018, , 229-238.	1.3	1
17	Antitumor Plateletâ€Mimicking Magnetic Nanoparticles. Advanced Functional Materials, 2017, 27, 1604774.	14.9	152
18	Microfluidic Electroporation-Facilitated Synthesis of Erythrocyte Membrane-Coated Magnetic Nanoparticles for Enhanced Imaging-Guided Cancer Therapy. ACS Nano, 2017, 11, 3496-3505.	14.6	377

#	Article	IF	Citations
19	Theranostics: Antitumor Platelet–Mimicking Magnetic Nanoparticles (Adv. Funct. Mater. 9/2017). Advanced Functional Materials, 2017, 27, .	14.9	1
20	Effect of geometric configuration on the laminar flow and heat transfer in microchannel heat sinks with cavities and fins. Numerical Heat Transfer; Part A: Applications, 2017, 71, 528-546.	2.1	59
21	Erythrocyte Membrane-Coated Upconversion Nanoparticles with Minimal Protein Adsorption for Enhanced Tumor Imaging. ACS Applied Materials & Interfaces, 2017, 9, 2159-2168.	8.0	195
22	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO_2@Gel–Microbead–Based Size Difference Amplification. Advanced Healthcare Materials, 2016, 5, 1554-1559.	7.6	44
23	Ultraviolet-assisted microfluidic generation of ferroelectric composite particles. Biomicrofluidics, 2016, 10, 024106.	2.4	2
24	Three-dimensional valve-based controllable PDMS nozzle for dynamic modulation of droplet generation. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	11
25	Autofluorescent gelatin nanoparticles as imaging probes to monitor matrix metalloproteinase metabolism of cancer cells. Journal of Biomedical Materials Research - Part A, 2016, 104, 2854-2860.	4.0	25
26	Cancer Cell Membrane–Coated Upconversion Nanoprobes for Highly Specific Tumor Imaging. Advanced Materials, 2016, 28, 3460-3466.	21.0	420
27	Highly sensitive microfluidic flow sensor based on aligned piezoelectric poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.3	21
28	Red Blood Cell Membrane as a Biomimetic Nanocoating for Prolonged Circulation Time and Reduced Accelerated Blood Clearance. Small, 2015, 11, 6225-6236.	10.0	353
29	A Concentration-Controllable Microfluidic Droplet Mixer for Mercury Ion Detection. Micromachines, 2015, 6, 915-925.	2.9	3
30	One-step fabrication of 3D silver paste electrodes into microfluidic devices for enhanced droplet-based cell sorting. AIP Advances, 2015, 5, .	1.3	24
31	Capture and release of cancer cells using electrospun etchable MnO_2 nanofibers integrated in microchannels. Applied Physics Letters, 2015, 106, .	3.3	41
32	Generation of $BiFeO_3$-Fe_3O_4 Janus particles based on droplet microfluidic method. Applied Physics Letters, 2014, 105, .	3.3	11
33	Disk-like hydrogel bead-based immunofluorescence staining toward identification and observation of circulating tumor cells. Microfluidics and Nanofluidics, 2014, 16, 29-37.	2.2	21
34	Biocompatible TiO_2 nanoparticle-based cell immunoassay for circulating tumor cells capture and identification from cancer patients. Biomedical Microdevices, 2013, 15, 617-626.	2.8	66
35	Novel spatial and temporal interpolation algorithms based on extended field intensity model with applications for sparse AQI. Multimedia Tools and Applications, 0, , 1.	3.9	1