

# Jiyoon Bu

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

924  
citations

516710

16  
h-index

477307

29  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Peptideâ€“nanoparticle conjugates: a next generation of diagnostic and therapeutic platforms?. <i>Nano Convergence</i> , 2018, 5, 38.	12.1	140
2	High-purity capture and release of circulating exosomes using an exosome-specific dual-patterned immunofiltration (ExoDIF) device. <i>Nanoscale</i> , 2017, 9, 13495-13505.	5.6	116
3	Chemically and Biologically Engineered Bacteriaâ€“Based Delivery Systems for Emerging Diagnosis and Advanced Therapy. <i>Advanced Materials</i> , 2021, 33, e2102580.	21.0	93
4	An Avidity-Based PD-L1 Antagonist Using Nanoparticle-Antibody Conjugates for Enhanced Immunotherapy. <i>Nano Letters</i> , 2020, 20, 4901-4909.	9.1	69
5	Nanoparticle Conjugation Stabilizes and Multimerizes Î²2-Hairpin Peptides To Effectively Target PD-1/PD-L1 Î²2-Sheet-Rich Interfaces. <i>Journal of the American Chemical Society</i> , 2020, 142, 1832-1837.	13.7	39
6	Immunoavidity-Based Capture of Tumor Exosomes Using Poly(amidoamine) Dendrimer Surfaces. <i>Nano Letters</i> , 2020, 20, 5686-5692.	9.1	39
7	Prognostic Significance of LC3B and p62/SQSTM1 Expression in Gastric Adenocarcinoma. <i>Anticancer Research</i> , 2019, 39, 6711-6722.	1.1	27
8	Surface engineering for efficient capture of circulating tumor cells in renal cell carcinoma: From nanoscale analysis to clinical application. <i>Biosensors and Bioelectronics</i> , 2020, 162, 112250.	10.1	27
9	Polyester fabric sheet layers functionalized with graphene oxide for sensitive isolation of circulating tumor cells. <i>Biomaterials</i> , 2017, 125, 1-11.	11.4	25
10	Would antioxidant-loaded nanoparticles present an effective treatment for ischemic stroke?. <i>Nanomedicine</i> , 2018, 13, 2327-2340.	3.3	25
11	Post-debulking circulating tumor cell as a poor prognostic marker in advanced stage ovarian cancer. <i>Medicine (United States)</i> , 2019, 98, e15354.	1.0	25
12	Dual-patterned immunofiltration (DIF) device for the rapid efficient negative selection of heterogeneous circulating tumor cells. <i>Lab on A Chip</i> , 2016, 16, 4759-4769.	6.0	24
13	Lab on a fabric: Mass producible and low-cost fabric filters for the high-throughput viable isolation of circulating tumor cells. <i>Biosensors and Bioelectronics</i> , 2017, 91, 747-755.	10.1	24
14	Sub-lethal hyperthermia promotes epithelial-to-mesenchymal-like transition of breast cancer cells: implication of the synergy between hyperthermia and chemotherapy. <i>RSC Advances</i> , 2019, 9, 52-57.	3.6	24
15	Circulating tumor cells in the differential diagnosis of adnexal masses. <i>Oncotarget</i> , 2017, 8, 77195-77206.	1.8	19
16	Epithelial and mesenchymal circulating tumor cell isolation and discrimination using dual-immunopatterned device with newly-developed anti-63B6 and anti-EpCAM. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 320-330.	7.8	18
17	Enhancement of isolation sensitivity for the viable heterogeneous circulating tumor cells swelled by hypo-osmotic pressure. <i>RSC Advances</i> , 2017, 7, 49684-49693.	3.6	15
18	Cytopathological Study of the Circulating Tumor Cells filtered from the Cancer Patientsâ€™ Blood using Hydrogel-based Cell Block Formation. <i>Scientific Reports</i> , 2018, 8, 15218.	3.3	15

#	ARTICLE	IF	CITATIONS
19	Enhanced detection of cell-free DNA (cfDNA) enables its use as a reliable biomarker for diagnosis and prognosis of gastric cancer. <i>PLoS ONE</i> , 2020, 15, e0242145.	2.5	14
20	Bimodal liquid biopsy for cancer immunotherapy based on peptide engineering and nanoscale analysis. <i>Biosensors and Bioelectronics</i> , 2022, 213, 114445.	10.1	14
21	Tri-modal liquid biopsy: Combinational analysis of circulating tumor cells, exosomes, and cell-free DNA using machine learning algorithm. <i>Clinical and Translational Medicine</i> , 2021, 11, e499.	4.0	13
22	Dendrimers for cancer immunotherapy: Avidity-based drug delivery vehicles for effective anti-tumor immune response. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1752.	6.1	13
23	Machine-Learning-Based Clinical Biomarker Using Cell-Free DNA for Hepatocellular Carcinoma (HCC). <i>Cancers</i> , 2022, 14, 2061.	3.7	13
24	Multi-modal liquid biopsy platform for cancer screening: screening both cancer-associated rare cells and cancer cell-derived vesicles on the fabric filters for a reliable liquid biopsy analysis. <i>Nano Convergence</i> , 2019, 6, 39.	12.1	12
25	Hierarchically Multivalent Peptide-Nanoparticle Architectures: A Systematic Approach to Engineer Surface Adhesion. <i>Advanced Science</i> , 2022, 9, e2103098.	11.2	11
26	Cytochalasin B Treatment and Osmotic Pressure Enhance the Production of Extracellular Vesicles (EVs) with Improved Drug Loading Capacity. <i>Nanomaterials</i> , 2022, 12, 3.	4.1	10
27	Identification of a Clinical Cutoff Value for Multiplex KRASG12/G13 Mutation Detection in Colorectal Adenocarcinoma Patients Using Digital Droplet PCR, and Comparison with Sanger Sequencing and PNA Clamping Assay. <i>Journal of Clinical Medicine</i> , 2020, 9, 2283.	2.4	9
28	A viable circulating tumor cell isolation device with high retrieval efficiency using a reversibly deformable membrane barrier. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 025015.	2.6	8
29	Clinical significance of atypical protein kinase C (PKC $\delta$ and PKC $\eta$ ) and its relationship with yes-associated protein in lung adenocarcinoma. <i>BMC Cancer</i> , 2019, 19, 804.	2.6	8
30	Viable and high-throughput isolation of heterogeneous circulating tumor cells using tapered-slit filters. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128369.	7.8	7
31	Size-Dependent Drug Loading, Gene Complexation, Cell Uptake, and Transfection of a Novel Dendron-Lipid Nanoparticle for Drug/Gene Co-delivery. <i>Biomacromolecules</i> , 2021, 22, 3746-3755.	5.4	7
32	Microfluidic-based mechanical phenotyping of cells for the validation of epithelial-to-mesenchymal-like transition caused by insufficient heat treatment. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 591-598.	7.8	6
33	Branched, dendritic, and hyperbranched polymers in liquid biopsy device design. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1770.	6.1	6
34	Quantification of circulating tumor cells as a biomarker for surveillance in oligometastatic patients after definitive radiation therapy. <i>Journal of Clinical Oncology</i> , 2018, 36, e24106-e24106.	1.6	4
35	A multi-staining chip using hydrophobic valves for exfoliative cytology in cancer. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 075022.	2.6	2
36	Fabrication of Formalin-Fixed, Paraffin-Embedded (FFPE) Circulating Tumor Cell (CTC) Block Using a Hydrogel Core-Mediated Method. <i>Micromachines</i> , 2021, 12, 1128.	2.9	2

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37	The Specific Gravity-Free Method for the Isolation of Circulating Tumor KRAS Mutant DNA and Exosome in Colorectal Cancer. <i>Micromachines</i> , 2021, 12, 987.	2.9	1
38	Graphene oxide coated fabric layers for the efficient isolation of circulating tumor cells. , 2017, , .		0