

Ram Datar

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

2,954
citations

516710

16
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

4229
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane microfilter device for selective capture, electrolysis and genomic analysis of human circulating tumor cells. <i>Journal of Chromatography A</i> , 2007, 1162, 154-161.	3.7	547
2	3D microfilter device for viable circulating tumor cell (CTC) enrichment from blood. <i>Biomedical Microdevices</i> , 2011, 13, 203-213.	2.8	394
3	Complementary Detection of Prostate-Specific Antigen Using In ₂ O ₃ Nanowires and Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2005, 127, 12484-12485.	13.7	376
4	Cantilever-Based Optical Deflection Assay for Discrimination of DNA Single-Nucleotide Mismatches. <i>Analytical Chemistry</i> , 2001, 73, 1567-1571.	6.5	363
5	DNA Extraction from Archival Formalin-fixed, Paraffin-embedded Tissue Sections Based on the Antigen Retrieval Principle: Heating Under the Influence of pH. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 1005-1011.	2.5	225
6	Targeted and controlled anticancer drug delivery and release with magnetoelectric nanoparticles. <i>Scientific Reports</i> , 2016, 6, 20867.	3.3	199
7	Cantilever Sensors: Nanomechanical Tools for Diagnostics. <i>MRS Bulletin</i> , 2009, 34, 449-454.	3.5	170
8	DNA extraction from archival formalin-fixed, paraffin-embedded tissues: heat-induced retrieval in alkaline solution. <i>Histochemistry and Cell Biology</i> , 2004, 122, 211-218.	1.7	142
9	Label-Free Protein Recognition Two-Dimensional Array Using Nanomechanical Sensors. <i>Nano Letters</i> , 2008, 8, 520-524.	9.1	108
10	Separable Bilayer Microfiltration Device for Viable Label-free Enrichment of Circulating Tumour Cells. <i>Scientific Reports</i> , 2014, 4, 7392.	3.3	91
11	Disseminated and circulating tumor cells: Role in effective cancer management. <i>Critical Reviews in Oncology/Hematology</i> , 2011, 77, 1-11.	4.4	82
12	Rapid, Label-Free, Electrical Whole Blood Bioassay Based on Nanobiosensor Systems. <i>ACS Nano</i> , 2011, 5, 9883-9891.	14.6	74
13	Fourier ptychographic microscopy for filtration-based circulating tumor cell enumeration and analysis. <i>Journal of Biomedical Optics</i> , 2014, 19, 066007.	2.6	73
14	ErbB-2 Induces the Cyclin D1 Gene in Prostate Epithelial Cells In vitro and In vivo. <i>Cancer Research</i> , 2007, 67, 4364-4372.	0.9	36
15	Size-Based Enrichment Technologies for CTC Detection and Characterization. <i>Recent Results in Cancer Research</i> , 2012, 195, 87-95.	1.8	28
16	Role of coordinated molecular alterations in the development of androgen-independent prostate cancer: an in vitro model that corroborates clinical observations. <i>BJU International</i> , 2006, 97, 170-178.	2.5	25
17	Frequency and clinical impact of preoperative circulating tumor cells in resectable non-metastatic lung adenocarcinomas. <i>Lung Cancer</i> , 2017, 113, 152-157.	2.0	10
18	Technologies and methods used for the detection, enrichment and characterization of cancer stem cells. <i>The National Medical Journal of India</i> , 2010, 23, 346-50.	0.3	7

#	ARTICLE	IF	CITATIONS
19	Clinical translation of a novel microfilter technology Capture, characterization and culture of circulating tumor cells. , 2013, , .		1
20	Top-down Fabricated Polysilicon Nanoribbon Biosensor Chips for Cancer Diagnosis. Materials Research Society Symposia Proceedings, 2013, 1569, 213-218.	0.1	1
21	Isolation of Circulating Tumor Cells Using Stiffness-Based Filtration Platform. , 2015, , .		1
22	Nanomechanical Methods To Study Single Cells. , 0, , 245-265.		0