

Rajan P Kulkarni

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,902
citations

186265

28
h-index

214800

47
g-index

52
all docs

52
docs citations

52
times ranked

8425
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free, Single-Molecule Detection with Optical Microcavities. <i>Science</i> , 2007, 317, 783-787.	12.6	1,066
2	Single-Cell Phenotyping within Transparent Intact Tissue through Whole-Body Clearing. <i>Cell</i> , 2014, 158, 945-958.	28.9	833
3	Size-selective collection of circulating tumor cells using Vortex technology. <i>Lab on A Chip</i> , 2014, 14, 63-77.	6.0	457
4	Tunability and Noise Dependence in Differentiation Dynamics. <i>Science</i> , 2007, 315, 1716-1719.	12.6	448
5	Regional glutamine deficiency in tumours promotes dedifferentiation through inhibition of histone demethylation. <i>Nature Cell Biology</i> , 2016, 18, 1090-1101.	10.3	291
6	Preparation and Characterization of Monolithic Porous Capillary Columns Loaded with Chromatographic Particles. <i>Analytical Chemistry</i> , 1998, 70, 5103-5107.	6.5	175
7	Classification of large circulating tumor cells isolated with ultra-high throughput microfluidic Vortex technology. <i>Oncotarget</i> , 2016, 7, 12748-12760.	1.8	151
8	Structure-Function Correlation of Chloroquine and Analogues as Transgene Expression Enhancers in Nonviral Gene Delivery. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6522-6531.	6.4	118
9	Dip-Pen Nanolithography of Reactive Alkoxysilanes on Glass. <i>Journal of the American Chemical Society</i> , 2003, 125, 12096-12097.	13.7	104
10	Quantum dots are powerful multipurpose vital labeling agents in zebrafish embryos. <i>Developmental Dynamics</i> , 2005, 234, 670-681.	1.8	100
11	Advances in high-throughput single-cell microtechnologies. <i>Current Opinion in Biotechnology</i> , 2014, 25, 114-123.	6.6	86
12	Quantitating intracellular transport of polyplexes by spatio-temporal image correlation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7523-7528.	7.1	84
13	Evaluation of PD-L1 expression on vortex-isolated circulating tumor cells in metastatic lung cancer. <i>Scientific Reports</i> , 2018, 8, 2592.	3.3	81
14	Label-free isolation of prostate circulating tumor cells using Vortex microfluidic technology. <i>Npj Precision Oncology</i> , 2017, 1, 15.	5.4	72
15	Counting White Blood Cells from a Blood Smear Using Fourier Ptychographic Microscopy. <i>PLoS ONE</i> , 2015, 10, e0133489.	2.5	68
16	Single Cell Kinetics of Intracellular, Nonviral, Nucleic Acid Delivery Vehicle Acidification and Trafficking. <i>Bioconjugate Chemistry</i> , 2005, 16, 986-994.	3.6	65
17	Endocardially Derived Macrophages Are Essential for Valvular Remodeling. <i>Developmental Cell</i> , 2019, 48, 617-630.e3.	7.0	61
18	High efficiency vortex trapping of circulating tumor cells. <i>Biomicrofluidics</i> , 2015, 9, 064116.	2.4	60

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19	Clinical Pathways Improve Hospital Resource Use in Endocrine Surgery. <i>Journal of the American College of Surgeons</i> , 2011, 212, 35-41.	0.5	44
20	Quantitative Magnetic Separation of Particles and Cells Using Gradient Magnetic Ratcheting. <i>Small</i> , 2016, 12, 1891-1899.	10.0	41
21	Intracellular Transport Dynamics of Endosomes Containing DNA Polyplexes along the Microtubule Network. <i>Biophysical Journal</i> , 2006, 90, L42-L44.	0.5	40
22	Simplified three-dimensional tissue clearing and incorporation of colorimetric phenotyping. <i>Scientific Reports</i> , 2016, 6, 30736.	3.3	38
23	Multiscale light-sheet for rapid imaging of cardiopulmonary system. <i>JCI Insight</i> , 2018, 3, .	5.0	36
24	Microfluidic Purification and Concentration of Malignant Pleural Effusions for Improved Molecular and Cytomorphological Diagnostics. <i>PLoS ONE</i> , 2013, 8, e78194.	2.5	35
25	DNA-Based Programmed Assembly of Gold Nanoparticles on Lithographic Patterns with Extraordinary Specificity. <i>Nano Letters</i> , 2004, 4, 1521-1524.	9.1	34
26	Keratoacanthoma and squamous cell carcinoma are distinct from a molecular perspective. <i>Modern Pathology</i> , 2015, 28, 799-806.	5.5	34
27	DNA damage regulates the mobility of Brca2 within the nucleoplasm of living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21937-21942.	7.1	33
28	3D imaging of optically cleared tissue using a simplified CLARITY method and on-chip microscopy. <i>Science Advances</i> , 2017, 3, e1700553.	10.3	29
29	Diverse cutaneous adverse eruptions caused by anti-programmed cell death-1 (PD-1) and anti-programmed cell death ligand-1 (PD-L1) immunotherapies: clinical features and management. <i>Therapeutic Advances in Medical Oncology</i> , 2018, 10, 175883401775163.	3.2	29
30	Circulating biomarkers predictive of tumor response to cancer immunotherapy. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 895-904.	3.1	28
31	Total Economic Cost and Burden of Dengue in Nicaragua: 1996â€“2010. <i>American Journal of Tropical Medicine and Hygiene</i> , 2012, 87, 616-622.	1.4	27
32	p38 Mitogen-activated protein kinase regulates chamber-specific perinatal growth in heart. <i>Journal of Clinical Investigation</i> , 2020, 130, 5287-5301.	8.2	19
33	Rapid Dengue and Outbreak Detection with Mobile Systems and Social Networks. <i>Mobile Networks and Applications</i> , 2012, 17, 178-191.	3.3	15
34	Differences in protein mobility between pioneer versus follower growth cones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1207-1212.	7.1	14
35	Slip versus Slop: A Head-to-Head Comparison of UV-Protective Clothing to Sunscreen. <i>Cancers</i> , 2022, 14, 542.	3.7	14
36	Dendritic cellâ€“targeted lentiviral vector immunization uses pseudotransduction and DNA-mediated STING and cGAS activation. <i>Science Immunology</i> , 2017, 2, .	11.9	13

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37	Computational Drug Repositioning Identifies Statins as Modifiers of Prognostic Genetic Expression Signatures and Metastatic Behavior in Melanoma. <i>Journal of Investigative Dermatology</i> , 2021, 141, 1802-1809.	0.7	10
38	Research highlights: microfluidic single-cell analysis from nucleic acids to proteins to functions. <i>Lab on A Chip</i> , 2014, 14, 3663.	6.0	9
39	Genetic Profiling of BRAF Inhibitor-Induced Keratoacanthomas Reveals No Induction of MAP Kinase Pathway Expression. <i>Journal of Investigative Dermatology</i> , 2013, 133, 830-833.	0.7	8
40	Probiotics leap from gut to blood. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	7
41	To Improve Melanoma Outcomes, Focus on Risk Stratification, Not Overdiagnosis. <i>JAMA Dermatology</i> , 2022, 158, 485.	4.1	7
42	Research highlights: enhancing whole genome amplification using compartmentalization. <i>Lab on A Chip</i> , 2015, 15, 4379-4382.	6.0	5
43	Overstretched and overlooked: solving challenges faced by early-career investigators after the pandemic. <i>Trends in Cancer</i> , 2021, 7, 879-882.	7.4	4
44	Genetic analysis of multiple primary melanomas arising within the boundaries of congenital nevi depigmentosa. <i>Pigment Cell and Melanoma Research</i> , 2021, 34, 1123-1130.	3.3	3
45	Characterization of high-Q optical microcavities using confocal microscopy. <i>Optics Letters</i> , 2008, 33, 2931.	3.3	2
46	Coaxing cancer control by modulating COX-2. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	2
47	Later is better: Corticosteroids selectively suppress early memory T cells. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	2
48	Clinicopathologic challenge. <i>International Journal of Dermatology</i> , 2009, 48, 695-696.	1.0	0
49	The Clinical Utility of Circulating Tumor Cells: Analysis of These Cells May Have the Potential to Assist with Screening and Diagnosing Cancer. <i>IEEE Pulse</i> , 2016, 7, 27-29.	0.3	0
50	Continuously capturing circulating cancer cells. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	0
51	Better living through your gut microbes. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	0
52	Undressing drug reactions, one cell at a time. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	0