

Jian Yu Rao

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

5,099
citations

172207

29
h-index

88477

70
g-index

88
all docs

88
docs citations

88
times ranked

6896
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomechanical analysis of cells from cancer patients. <i>Nature Nanotechnology</i> , 2007, 2, 780-783.	15.6	1,650
2	Hydrodynamic stretching of single cells for large population mechanical phenotyping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7630-7635.	3.3	669
3	AFM-based analysis of human metastatic cancer cells. <i>Nanotechnology</i> , 2008, 19, 384003.	1.3	329
4	Quantitative Diagnosis of Malignant Pleural Effusions by Single-Cell Mechanophenotyping. <i>Science Translational Medicine</i> , 2013, 5, 212ra163.	5.8	227
5	Microfilament Actin Remodeling as a Potential Target for Cancer Drug Development. <i>Current Cancer Drug Targets</i> , 2004, 4, 345-354.	0.8	162
6	Classification of large circulating tumor cells isolated with ultra-high throughput microfluidic Vortex technology. <i>Oncotarget</i> , 2016, 7, 12748-12760.	0.8	151
7	Effectiveness of Molecular Testing Techniques for Diagnosis of Indeterminate Thyroid Nodules. <i>JAMA Oncology</i> , 2021, 7, 70.	3.4	102
8	Correlation of Ki-67 and gelsolin expression to clinical outcome in renal clear cell carcinoma. <i>Urology</i> , 2003, 61, 845-850.	0.5	95
9	Correlative nanomechanical profiling with super-resolution F-actin imaging reveals novel insights into mechanisms of cisplatin resistance in ovarian cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 757-766.	1.7	92
10	Applicability of AFM in cancer detection. <i>Nature Nanotechnology</i> , 2009, 4, 72-73.	15.6	86
11	Analysis of the Na,K-ATPase α - and β -subunit expression profiles of bladder cancer using tissue microarrays. <i>Cancer</i> , 2003, 97, 1859-1868.	2.0	83
12	Tissue microarray analysis of cytoskeletal actin-associated biomarkers gelsolin and E-cadherin in urothelial carcinoma. <i>Cancer</i> , 2002, 95, 1247-1257.	2.0	82
13	Green tea extract selectively targets nanomechanics of live metastatic cancer cells. <i>Nanotechnology</i> , 2011, 22, 215101.	1.3	70
14	Alterations of the actin polymerization status as an apoptotic morphological effector in HL-60 cells. <i>Journal of Cellular Biochemistry</i> , 1999, 75, 686-697.	1.2	69
15	The role of Rho GTPase in cell stiffness and cisplatin resistance in ovarian cancer cells. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 611-617.	0.6	68
16	Urine cytology and adjunct markers for detection and surveillance of bladder cancer. <i>American Journal of Translational Research (discontinued)</i> , 2010, 2, 412-40.	0.0	68
17	Bladder cancer risk assessment with quantitative fluorescence image analysis of tumor markers in exfoliated bladder cells. <i>Cancer</i> , 1993, 72, 2461-2469.	2.0	66
18	Screening cell mechanotype by parallel microfiltration. <i>Scientific Reports</i> , 2015, 5, 17595.	1.6	51

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19	Effect of malignancy rates on cost-effectiveness of routine gene expression classifier testing for indeterminate thyroid nodules. <i>Surgery</i> , 2016, 159, 118-129.	1.0	48
20	Label-free enumeration, collection and downstream cytological and cytogenetic analysis of circulating tumor cells. <i>Scientific Reports</i> , 2016, 6, 35474.	1.6	46
21	Gene Expression Classifier vs Targeted Next-Generation Sequencing in the Management of Indeterminate Thyroid Nodules. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 2261-2268.	1.8	44
22	Limbal Basal Cell Density Decreases in Limbal Stem Cell Deficiency. <i>American Journal of Ophthalmology</i> , 2015, 160, 678-684.e4.	1.7	43
23	Green Tea Extract Modulates Actin Remodeling via Rho Activity in an In vitro Multistep Carcinogenic Model. <i>Clinical Cancer Research</i> , 2005, 11, 1675-1683.	3.2	38
24	Effects of green tea extract on lung cancer A549 cells: Proteomic identification of proteins associated with cell migration. <i>Proteomics</i> , 2009, 9, 757-767.	1.3	38
25	Associations between Variants of the 8q24 Chromosome and Nine Smoking-Related Cancer Sites. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2008, 17, 3193-3202.	1.1	36
26	New immunochemical fecal occult blood test with two-consecutive stool sample testing is a cost-effective approach for colon cancer screening: Results of a prospective multicenter study in Chinese patients. <i>International Journal of Cancer</i> , 2006, 118, 3078-3083.	2.3	35
27	Annexin-I as a potential target for green tea extract induced actin remodeling. <i>International Journal of Cancer</i> , 2007, 120, 111-120.	2.3	34
28	Quantitative changes in cytoskeletal and nuclear actins during cellular transformation. , 1997, 70, 423-429.		31
29	Protein Expression Analysis Using Quantitative Fluorescence Image Analysis on Tissue Microarray Slides. <i>BioTechniques</i> , 2002, 32, 924-932.	0.8	31
30	PIAS1 Regulates Breast Tumorigenesis through Selective Epigenetic Gene Silencing. <i>PLoS ONE</i> , 2014, 9, e89464.	1.1	30
31	G-actin as a risk factor and modulatable endpoint for cancer chemoprevention trials. <i>Journal of Cellular Biochemistry</i> , 1996, 63, 197-204.	1.2	26
32	Transferrin Dipstick as a Potential Novel Test for Colon Cancer Screening: A Comparative Study With Immuno Fecal Occult Blood Test. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2009, 18, 2182-2185.	1.1	24
33	Immunohistochemical analysis of cyclooxygenase-2 expression in premalignant and malignant esophageal glandular and squamous lesions in Cixian, China. <i>Cancer Detection and Prevention</i> , 2003, 27, 243-249.	2.1	23
34	Green tea induces annexin-I expression in human lung adenocarcinoma A549 cells: involvement of annexin-I in actin remodeling. <i>Laboratory Investigation</i> , 2007, 87, 456-465.	1.7	23
35	Non-Peutz-Jeghers syndrome associated ovarian sex cord tumor with annular tubules: a case report. <i>Fertility and Sterility</i> , 2009, 92, 1497.e5-1497.e8.	0.5	23
36	Effects of 12-week supplementation of marine Omega-3 PUFA-based formulation Omega3Q10 in older adults with prehypertension and/or elevated blood cholesterol. <i>Lipids in Health and Disease</i> , 2017, 16, 253.	1.2	23

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37	Effects of 12-week supplementation of Citrus bergamia extracts-based formulation CitriCholess on cholesterol and body weight in older adults with dyslipidemia: a randomized, double-blind, placebo-controlled trial. <i>Lipids in Health and Disease</i> , 2017, 16, 251.	1.2	22
38	Green tea inhibits cyclooxygenase-2 in non-small cell lung cancer cells through the induction of Annexin-1. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 725-730.	1.0	20
39	Biomarkers in Monitoring for Efficacy of Immunotherapy and Chemoprevention of Bladder Cancer with Dimethylsulfoxide. <i>Cancer Detection and Prevention</i> , 1999, 23, 163-171.	2.1	17
40	Cancer cell mechanobiology: a new frontier for cancer research. <i>Journal of the National Cancer Center</i> , 2022, 2, 10-17.	3.0	17
41	Irrigation after Laparoscopic Power Morcellation and the Dispersal of Leiomyoma Cells: A Pilot Study. <i>Journal of Minimally Invasive Gynecology</i> , 2018, 25, 632-637.	0.3	15
42	CD123: A Novel Biomarker for Diagnosis and Treatment of Leukemia. <i>Cardiovascular & Hematological Disorders Drug Targets</i> , 2019, 19, 195-204.	0.2	15
43	Effect of an epidermal growth factor receptor tyrosine kinase inhibitor on actin remodeling in an in vitro bladder cancer carcinogenesis model. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 1754-1763.	1.9	14
44	Nanocytology as a potential biomarker for cancer. <i>Biomarkers in Medicine</i> , 2017, 11, 213-216.	0.6	13
45	International telecytology: Current applications and future potential. <i>Diagnostic Cytopathology</i> , 2019, 47, 28-34.	0.5	13
46	Association of PD-L1 expression by immunohistochemistry and gene microarray with molecular subtypes of ovarian tumors. <i>Modern Pathology</i> , 2020, 33, 2001-2010.	2.9	13
47	Tianshengyuan-1 (TSY-1) regulates cellular Telomerase activity by methylation of TERT promoter. <i>Oncotarget</i> , 2017, 8, 7977-7988.	0.8	13
48	Colorectal cancer screening with fecal occult blood test: A 22-year cohort study. <i>Oncology Letters</i> , 2013, 6, 576-582.	0.8	12
49	Piezoelectric needle sensor reveals mechanical heterogeneity in human thyroid tissue lesions. <i>Scientific Reports</i> , 2019, 9, 9282.	1.6	12
50	Targeting actin remodeling profiles for the detection and management of urothelial cancers - a perspective for bladder cancer research. <i>Frontiers in Bioscience - Landmark</i> , 2002, 7, e1.	3.0	11
51	Long-Term Exposure to PM2.5, Facemask Mandates, Stay Home Orders and COVID-19 Incidence in the United States. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6274.	1.2	11
52	Targeting actin remodeling profiles for the detection and management of urothelial cancers - a perspective for bladder cancer research. <i>Frontiers in Bioscience - Landmark</i> , 2002, 7, e1-8.	3.0	11
53	Decreased retinoid X receptor-alpha protein expression in basal cells occurs in the early stage of human prostate cancer development. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2004, 13, 383-90.	1.1	11
54	Fine Needle Elastography (FNE) device for biomechanically determining local variations of tissue mechanical properties. <i>Journal of Biomechanics</i> , 2015, 48, 81-88.	0.9	10

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55	Single Cell Mechanotype and Associated Molecular Changes in Urothelial Cell Transformation and Progression. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 601376.	1.8	10
56	Polymorphisms of peroxisome proliferator-activated receptors and survival of lung cancer and upper aero-digestive tract cancers. <i>Lung Cancer</i> , 2014, 85, 449-456.	0.9	9
57	Developing a Machine Learning Algorithm for Identifying Abnormal Urothelial Cells: A Feasibility Study. <i>Acta Cytologica</i> , 2021, 65, 335-341.	0.7	9
58	Nanoscale Extracellular Vesicles Carry the Mechanobiology Signatures of Breast Cancer Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 9876-9885.	2.4	9
59	Biomarkers that may predict response to immunotherapy in ovarian malignancies. <i>Current Opinion in Obstetrics and Gynecology</i> , 2020, 32, 84-90.	0.9	8
60	Genetic variation at 8q24, family history of cancer, and upper gastrointestinal cancers in a Chinese population. <i>Familial Cancer</i> , 2014, 13, 45-56.	0.9	7
61	The Relieving Effects of BrainPower Advanced, a Dietary Supplement, in Older Adults with Subjective Memory Complaints: A Randomized, Double-Blind, Placebo-Controlled Trial. <i>Evidence-based Complementary and Alternative Medicine</i> , 2016, 2016, 1-16.	0.5	7
62	Thymidylate synthase prompts metastatic progression through the dTMP associated EMT process in pancreatic ductal adenocarcinoma. <i>Cancer Letters</i> , 2018, 419, 40-52.	3.2	7
63	Effects of G.H.3. On mental symptoms and health-related quality of life among older adults: results of a three-month follow-up study in Shanghai, China. <i>Nutrition Journal</i> , 2015, 15, 9.	1.5	6
64	0°C is better?- Thawing temperature optimization study for cancer cryoablation in a mouse model with green fluorescent protein-labeled Lewis lung cancer. <i>Cryobiology</i> , 2017, 75, 80-87.	0.3	6
65	Fine-Needle Aspiration Versus Frozen Section in the Evaluation of Malignant Thyroid Nodules in Patients With the Diagnosis of Suspicious for Malignancy or Malignancy by Fine-Needle Aspiration. <i>Archives of Pathology and Laboratory Medicine</i> , 2017, 141, 684-689.	1.2	5
66	Effects of 12-Week Supplementation of a Polyherbal Formulation in Old Adults with Prehypertension/Hypertension: A Randomized, Double-Blind, Placebo-Controlled Trial. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-15.	0.5	5
67	Comparison of nylon-flocked swab and Dacron swab cytology for anal HSIL detection in transgender women and gay, bisexual, and other men who have sex with men. <i>Cancer Cytopathology</i> , 2019, 127, 247-257.	1.4	5
68	Treatment of metastatic placental site trophoblastic tumor with surgery, chemotherapy, immunotherapy and coil embolization of multiple pulmonary arteriovenous fistulate. <i>Gynecologic Oncology Reports</i> , 2021, 36, 100782.	0.3	4
69	Spontaneous Regression of Metastatic Papillary Thyroid Cancer in a Lymph Node. <i>Case Reports in Endocrinology</i> , 2018, 2018, 1-4.	0.2	3
70	Postprandial Glucose Levels Are Better Associated with the Risk Factors for Diabetes Compared to Fasting Glucose and Glycosylated Hemoglobin (HbA1c) Levels in Elderly Prediabetics: Beneficial Effects of Polyherbal Supplements—A Randomized, Double-Blind, Placebo Controlled Trial. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-13.	0.5	3
71	Stiffness heterogeneity-induced double-edged sword behaviors of carcinoma-associated fibroblasts in antitumor therapy. <i>Science China Materials</i> , 2019, 62, 873-884.	3.5	3
72	Computational Technology with Artificial Intelligence and Machine Learning: What Should a Cytologist Do with It?. <i>Acta Cytologica</i> , 2020, 65, 1-3.	0.7	3

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73	Benefit of double-reading cytology smears as a triage strategy among high-risk human papillomavirus-positive women in Mexico. <i>Cancer Cytopathology</i> , 2020, 128, 715-724.	1.4	3
74	<i>BRAF</i> V600E as an accurate marker to complement fine needle aspiration (FNA) cytology in the guidance of thyroid surgery in the Chinese population: evidence from over 1000 consecutive FNAs with follow-up. <i>Japanese Journal of Clinical Oncology</i> , 2021, 51, 590-594.	0.6	3
75	Advances in Imaging Modalities, Artificial Intelligence, and Single Cell Biomarker Analysis, and Their Applications in Cytopathology. <i>Frontiers in Medicine</i> , 2021, 8, 689954.	1.2	3
76	Interactions Between Adiponectin-Pathway Polymorphisms and Obesity on Postmenopausal Breast Cancer Risk Among African American Women: The WHI SHARe Study. <i>Frontiers in Oncology</i> , 2021, 11, 698198.	1.3	3
77	Effect of Tianshengyuan-1 (TSY-1) on telomerase activity and hematopoietic recovery - in vitro, ex vivo, and in vivo studies. <i>International Journal of Clinical and Experimental Medicine</i> , 2014, 7, 597-606.	1.3	3
78	A Preliminary Study of Deep-Learning Algorithm for Analyzing Multiplex Immunofluorescence Biomarkers in Body Fluid Cytology Specimens. <i>Acta Cytologica</i> , 2021, 65, 348-353.	0.7	2
79	Editorial: Cancer Cell Mechanobiology - A New Frontier for Cancer Invasion and Metastasis Research. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 775012.	1.8	2
80	A joint effect of new western diet and retinoid X receptor alpha prostate-specific knockout with development of high-grade prostatic intraepithelial neoplasia in mice: A preliminary study. <i>Prostate</i> , 2012, 72, 1052-1059.	1.2	1
81	Breast Hyperplasias, Risk Signature, and Breast Cancer. <i>Cancer Prevention Research</i> , 2019, 12, 471-480.	0.7	1
82	Atypical de Quervain's thyroiditis diagnosed as atypia of undetermined significance by cytology and suspicious for cancer by Afirma Genomic Sequencing Classifier. <i>Diagnostic Cytopathology</i> , 2021, 49, E312-E315.	0.5	1
83	A Phase II Study of Elacytarabine/Idarubicin As Second Course Remission-Induction in Patients with Acute Myeloid Leukemia Who Failed Cytarabine/Anthracycline. <i>Blood</i> , 2012, 120, 46-46.	0.6	1
84	A Preliminary Study of the Effects of SurAsleep on Relieving Symptoms of Sleep Disorders. <i>International Journal of Biomedical Science</i> , 2015, 11, 76-81.	0.5	1
85	Tissue Microarray and Quantitative Fluorescence Image Analysis in Tumor Biomarker Analysis. <i>Handbook of Immunohistochemistry and in Situ Hybridization of Human Carcinomas</i> , 2005, , 39-45.	0.0	0
86	The Relieving Effects of a Polyherb-Based Dietary Supplement ColonVita on Gastrointestinal Quality of Life Index (GIQLI) in Older Adults with Chronic Gastrointestinal Symptoms Are Influenced by Age and Cardiovascular Disease: A 12-Week Randomized Placebo-Controlled Trial. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-13.	0.5	0
87	A Phase II Study of Elacytarabine/Idarubicin As Second Course Remission-Induction in Patients with Acute Myeloid Leukemia Who Failed Cytarabine/Anthracycline, and Evaluation of the Impact of the Nucleoside Transporter hENT1 on Response. <i>Blood</i> , 2011, 118, 1533-1533.	0.6	0
88	Evaluation of the Effect of Mega MSM on Improving Joint Function in Populations Experiencing Joint Degeneration. <i>International Journal of Biomedical Science</i> , 2015, 11, 54-60.	0.5	0