

Hisashi Tanaka

List of Publications by Year in descending order

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103
papers

3,386
citations

147566

31
h-index

168136

53
g-index

107
all docs

107
docs citations

107
times ranked

4794
citing authors

#	ARTICLE	IF	CITATIONS
1	Large extracellular vesicles carry most of the tumour DNA circulating in prostate cancer patient plasma. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1505403.	5.5	286
2	Movement-Related Desynchronization of the Cerebral Cortex Studied with Spatially Filtered Magnetoencephalography. <i>NeuroImage</i> , 2000, 12, 298-306.	2.1	199
3	Fractional anisotropy and tumor cell density of the tumor core show positive correlation in diffusion tensor magnetic resonance imaging of malignant brain tumors. <i>NeuroImage</i> , 2008, 43, 29-35.	2.1	149
4	FOXC1 Activates Smoothed-Independent Hedgehog Signaling in Basal-like Breast Cancer. <i>Cell Reports</i> , 2015, 13, 1046-1058.	2.9	124
5	Methylation of the 5' CpG island of the FHIT gene is closely associated with transcriptional inactivation in esophageal squamous cell carcinomas. <i>Cancer Research</i> , 1998, 58, 3429-34.	0.4	110
6	Short inverted repeats initiate gene amplification through the formation of a large DNA palindrome in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8772-8777.	3.3	105
7	Widespread and nonrandom distribution of DNA palindromes in cancer cells provides a structural platform for subsequent gene amplification. <i>Nature Genetics</i> , 2005, 37, 320-327.	9.4	95
8	Three-dimensional distribution of acetabular cartilage thickness in patients with hip dysplasia: a fully automated computational analysis of MR imaging. <i>Osteoarthritis and Cartilage</i> , 2004, 12, 650-657.	0.6	88
9	Palindromic gene amplification – an evolutionarily conserved role for DNA inverted repeats in the genome. <i>Nature Reviews Cancer</i> , 2009, 9, 216-224.	12.8	86
10	Fat-Suppressed 3D Spoiled Gradient-Echo MRI and MDCT Arthrography of Articular Cartilage in Patients with Hip Dysplasia. <i>American Journal of Roentgenology</i> , 2005, 185, 379-385.	1.0	79
11	Proton magnetic resonance spectroscopy of patients with parkinsonism. <i>Brain Research Bulletin</i> , 2000, 52, 589-595.	1.4	76
12	BRCA1 ensures genome integrity by eliminating estrogen-induced pathological topoisomerase IIα-DNA complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10642-E10651.	3.3	75
13	FOXC1-induced non-canonical WNT5A-MMP7 signaling regulates invasiveness in triple-negative breast cancer. <i>Oncogene</i> , 2018, 37, 1399-1408.	2.6	67
14	DNA methylation of developmental genes in pediatric medulloblastomas identified by denaturation analysis of methylation differences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 234-239.	3.3	59
15	Intrastrand Annealing Leads to the Formation of a Large DNA Palindrome and Determines the Boundaries of Genomic Amplification in Human Cancer. <i>Molecular and Cellular Biology</i> , 2007, 27, 1993-2002.	1.1	57
16	Clinical accuracy evaluation of femoral canal preparation using the ROBODOC system. <i>Journal of Orthopaedic Science</i> , 2004, 9, 452-461.	0.5	53
17	Emerin Deregulation Links Nuclear Shape Instability to Metastatic Potential. <i>Cancer Research</i> , 2018, 78, 6086-6097.	0.4	49
18	Genetic Alterations in Patients With Esophageal Cancer With Short- and Long-Term Survival Rates After Curative Esophagectomy. <i>Annals of Surgery</i> , 1997, 226, 162-168.	2.1	49

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19	Neuromelanin Magnetic Resonance Imaging Reveals Increased Dopaminergic Neuron Activity in the Substantia Nigra of Patients with Schizophrenia. PLoS ONE, 2014, 9, e104619.	1.1	48
20	Initial Experience with Helical CT and 3D Reconstruction in Therapeutic Planning of Cerebral AVMs: Comparison with 3D Time-of-Flight MRA and Digital Subtraction Angiography. Journal of Computer Assisted Tomography, 1997, 21, 811-817.	0.5	47
21	Characterization of p53 gene mutations in esophageal squamous cell carcinoma cell lines: Increased frequency and different spectrum of mutations from primary tumors. , 1996, 65, 372-376.		46
22	Loaded Cartilage T2 Mapping in Patients with Hip Dysplasia. Radiology, 2010, 256, 955-965.	3.6	46
23	Linkage Disequilibrium between Two High-Frequency Deletion Polymorphisms: Implications for Association Studies Involving the glutathione-S transferase (GST) Genes. PLoS Genetics, 2009, 5, e1000472.	1.5	44
24	Mechanisms Underlying Recurrent Genomic Amplification in Human Cancers. Trends in Cancer, 2020, 6, 462-477.	3.8	43
25	Multiple types of aberrations in the p16 (INK4a) and p15 (INK4b) genes in 30 esophageal squamous-cell-carcinoma cell lines. , 1997, 70, 437-442.		42
26	Articular Cartilage Abnormalities in Dysplastic Hips Without Joint Space Narrowing. Clinical Orthopaedics and Related Research, 2001, 383, 183-190.	0.7	42
27	Quantifying changes in nigrosomes using quantitative susceptibility mapping and neuromelanin imaging for the diagnosis of early-stage Parkinson's disease. British Journal of Radiology, 2018, 91, 20180037.	1.0	41
28	Changes in endolymphatic hydrops after sac surgery examined by Gd-enhanced MRI. Acta Oto-Laryngologica, 2013, 133, 924-929.	0.3	37
29	Tumors defective in homologous recombination rely on oxidative metabolism: relevance to treatments with PARP inhibitors. EMBO Molecular Medicine, 2020, 12, e11217.	3.3	37
30	Functional mapping of pain-related activation with echo-planar MRI. NeuroReport, 1998, 9, 2285-2289.	0.6	35
31	Quantitative mapping of cerebral deoxyhemoglobin content using MR imaging. NeuroImage, 2003, 20, 2071-2083.	2.1	33
32	Determination of transverse relaxation rate for estimating iron deposits in central nervous system. Neuroscience Research, 2005, 51, 67-71.	1.0	33
33	Effects of stimulus rate on the auditory cortex using fMRI with sparse temporal sampling. NeuroReport, 2000, 11, 2045-2049.	0.6	32
34	MRI and CT findings of the giant cell tumors of the skull; five cases and a review of the literature. European Journal of Radiology, 2006, 58, 435-443.	1.2	32
35	Assessment of palindromes as platforms for DNA amplification in breast cancer. Genome Research, 2012, 22, 232-245.	2.4	31
36	MR-based three-dimensional presentation of cartilage thickness in the femoral head. European Radiology, 2001, 11, 2178-2183.	2.3	30

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37	Limits on the accuracy of 3-D thickness measurement in magnetic resonance images- Effects of voxel anisotropy. IEEE Transactions on Medical Imaging, 2003, 22, 1076-1088.	5.4	30
38	Phase-contrast MR Studies of CSF Flow Rate in the Cerebral Aqueduct and Cervical Subarachnoid Space with Correlation-based Segmentation. Magnetic Resonance in Medical Sciences, 2009, 8, 91-100.	1.1	30
39	Characterization of six cell lines established from human pancreatic adenocarcinomas. , 1999, 85, 832-840.		29
40	Solitary subependymal giant cell astrocytoma: case report. European Journal of Radiology, 2000, 33, 55-58.	1.2	29
41	Assessment of the three-dimensional relationship of the ossific nuclei and cartilaginous anlagen in congenital clubfoot by 3-D MRI. Journal of Orthopaedic Research, 2005, 23, 1160-1164.	1.2	29
42	Large DNA palindromes as a common form of structural chromosome aberrations in human cancers. Human Cell, 2006, 19, 17-23.	1.2	29
43	Palindromic amplification of the ERBB2 oncogene in primary HER2-positive breast tumors. Scientific Reports, 2017, 7, 41921.	1.6	28
44	Comparison of the fit and fill between the Anatomic Hip femoral component and the VerSys Taper femoral component using virtual implantation on the ORTHODOC workstation. Journal of Orthopaedic Science, 2003, 8, 352-360.	0.5	27
45	Use of fractional anisotropy for determination of the cut-off value in 11C-methionine positron emission tomography for glioma. NeuroImage, 2009, 45, 312-318.	2.1	27
46	Cardiac Cycle-Related Volume Change in Unruptured Cerebral Aneurysms. Stroke, 2012, 43, 61-66.	1.0	26
47	A common copy-number breakpoint of ERBB2 amplification in breast cancer colocalizes with a complex block of segmental duplications. Breast Cancer Research, 2012, 14, R150.	2.2	26
48	Towards prognostic functional brain biomarkers for cervical myelopathy: A resting-state fMRI study. Scientific Reports, 2019, 9, 10456.	1.6	26
49	Model-based iterative reconstruction for detection of subtle hypoattenuation in early cerebral infarction: a phantom study. Japanese Journal of Radiology, 2015, 33, 26-32.	1.0	25
50	Three-dimensional topographical variation of femoral cartilage T2 in healthy volunteer knees. Skeletal Radiology, 2013, 42, 363-370.	1.2	24
51	Simple bone cyst of the mandibular condyle: Report of a case. Journal of Oral and Maxillofacial Surgery, 1996, 54, 1454-1458.	0.5	23
52	Dual-energy CT for detection of contrast enhancement or leakage within high-density haematomas in patients with intracranial haemorrhage. Neuroradiology, 2014, 56, 291-295.	1.1	23
53	Lymph node metastasis is associated with allelic loss on chromosome 13q12-13 in esophageal squamous cell carcinoma. Cancer Research, 1999, 59, 3724-9.	0.4	23
54	Prevalence and diagnostic performance of computed tomography angiography spot sign for intracerebral hematoma expansion depend on scan timing. Neuroradiology, 2014, 56, 1039-1045.	1.1	22

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55	Quantitative study of changes in oxidative metabolism during visual stimulation using absolute relaxation rates. <i>NMR in Biomedicine</i> , 2006, 19, 60-68.	1.6	21
56	Replication fork integrity and intra-S phase checkpoint suppress gene amplification. <i>Nucleic Acids Research</i> , 2015, 43, 2678-2690.	6.5	19
57	Comparison of Silent and Conventional MR Imaging for the Evaluation of Myelination in Children. <i>Magnetic Resonance in Medical Sciences</i> , 2017, 16, 209-216.	1.1	18
58	Quantitative assessment reveals the dominance of duplicated sequences in germline-derived extrachromosomal circular DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
59	Homology-mediated end-capping as a primary step of sister chromatid fusion in the breakage-fusion-bridge cycles. <i>Nucleic Acids Research</i> , 2013, 41, 9732-9740.	6.5	17
60	Whole-body MR Imaging in Detecting Phosphaturic Mesenchymal Tumor (PMT) in Tumor-induced Hypophosphatemic Osteomalacia. <i>Magnetic Resonance in Medical Sciences</i> , 2013, 12, 47-52.	1.1	17
61	Comparison of diffusion tensor imaging and ¹¹ C-methionine positron emission tomography for reliable prediction of tumor cell density in gliomas. <i>Journal of Neurosurgery</i> , 2016, 125, 1136-1142.	0.9	16
62	Bone Metastases from Soft Tissue Sarcomas. <i>Seminars in Musculoskeletal Radiology</i> , 1999, 3, 183-189.	0.4	15
63	A fully automated method for segmentation and thickness determination of hip joint cartilage from 3D MR data. <i>International Congress Series</i> , 2001, 1230, 352-358.	0.2	15
64	Usefulness of contrast-enhanced three-dimensional MR angiography using time-resolved imaging of contrast kinetics applied to description of Extracranial Arteriovenous Malformations: Initial Experience. <i>European Journal of Radiology</i> , 2012, 81, 1134-1139.	1.2	15
65	Intraosseous ganglion. <i>Skeletal Radiology</i> , 1995, 24, 155-7.	1.2	14
66	Comparative study of pulsed-continuous arterial spin labeling and dynamic susceptibility contrast imaging by histogram analysis in evaluation of glial tumors. <i>Neuroradiology</i> , 2018, 60, 599-608.	1.1	14
67	Differentiating between Glioblastoma and Primary CNS Lymphoma Using Combined Whole-tumor Histogram Analysis of the Normalized Cerebral Blood Volume and the Apparent Diffusion Coefficient. <i>Magnetic Resonance in Medical Sciences</i> , 2019, 18, 53-61.	1.1	14
68	Juxta-articular ankylosis of the temporomandibular joint as an unusual cause of limitation of mouth opening: Case report. <i>Journal of Oral and Maxillofacial Surgery</i> , 1998, 56, 243-246.	0.5	13
69	Postradiation sarcomas of the pelvis after treatment for uterine cervical cancer: review of the CT and MR findings of five cases. <i>Skeletal Radiology</i> , 2001, 30, 132-137.	1.2	13
70	Impediment of Replication Forks by Long Non-coding RNA Provokes Chromosomal Rearrangements by Error-Prone Restart. <i>Cell Reports</i> , 2017, 21, 2223-2235.	2.9	13
71	Transition of the Craniocaudal Velocity of the Spinal Cord. <i>Investigative Radiology</i> , 1998, 33, 141-145.	3.5	13
72	Heritability of brain volume on MRI in middle to advanced age: A twin study of Japanese adults. <i>PLoS ONE</i> , 2017, 12, e0175800.	1.1	12

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73	Capillary Hemangioma in a Rib Presenting as Large Pleural Effusion. <i>Annals of Thoracic Surgery</i> , 2011, 91, e59-e61.	0.7	11
74	Quantitative Comparison of Virtual Monochromatic Images of Dual Energy Computed Tomography Systems. <i>Journal of Computer Assisted Tomography</i> , 2018, 42, 648-654.	0.5	11
75	Variation in supratentorial cerebrospinal fluid production rate in one day: measurement by nontriggered phase-contrast magnetic resonance imaging. <i>Japanese Journal of Radiology</i> , 2011, 29, 110-115.	1.0	10
76	GAP-Seq: a method for identification of DNA palindromes. <i>BMC Genomics</i> , 2014, 15, 394.	1.2	10
77	Molecular Trajectories Leading to the Alternative Fates of Duplicate Genes. <i>PLoS ONE</i> , 2012, 7, e38958.	1.1	8
78	Quantifying the Severity of Parkinson Disease by Use of Dopaminergic Neuroimaging. <i>American Journal of Roentgenology</i> , 2019, 213, 163-168.	1.0	8
79	Origin of High Signal Intensity in the Cavernous Sinus in MR Angiographic Source Images. <i>Journal of Computer Assisted Tomography</i> , 2004, 28, 728-734.	0.5	7
80	The fragility of a structurally diverse duplication block triggers recurrent genomic amplification. <i>Nucleic Acids Research</i> , 2021, 49, 244-256.	6.5	7
81	Genome-wide analysis of palindrome formation. <i>Nature Genetics</i> , 2010, 42, 279-279.	9.4	5
82	Vessel-Masked Perfusion Magnetic Resonance Imaging With Histogram Analysis Improves Diagnostic Accuracy for the Grading of Glioma. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 910-915.	0.5	5
83	Limits to the Accuracy of 3D Thickness Measurement in Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , 2001, , 803-810.	1.0	5
84	Effects of stimulus presentation rate on the activity of primary somatosensory cortex: a functional magnetic resonance imaging study in humans. <i>Brain Research Bulletin</i> , 2001, 54, 125-129.	1.4	4
85	A Fully Automated Method for Segmentation and Thickness Map Estimation of Femoral and Acetabular Cartilages in 3D CT Images of the Hip. <i>Proc Int Symp Image Signal Process Anal</i> , 2007, , .	0.0	4
86	Whole-tumor histogram analysis of the cerebral blood volume map: tumor volume defined by ¹¹ C-methionine positron emission tomography image improves the diagnostic accuracy of cerebral glioma grading. <i>Japanese Journal of Radiology</i> , 2017, 35, 613-621.	1.0	4
87	Multiple blood flow measurements before and after carotid artery stenting via phase-contrast magnetic resonance imaging: An observational study. <i>PLoS ONE</i> , 2018, 13, e0195099.	1.1	4
88	Low Incidence of p53 Mutations in Well-differentiated Tongue Squamous Cell Carcinoma in Japan. <i>Japanese Journal of Clinical Oncology</i> , 2002, 32, 327-331.	0.6	3
89	Effect of flip angle on volume flow measurement with nontriggered phase-contrast MR: In vivo evaluation in carotid and basilar arteries. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1218-1223.	1.9	3
90	A Hybrid Technique for Thickness-Map Visualization of the Hip Cartilages in MRI. <i>IEICE Transactions on Information and Systems</i> , 2009, E92-D, 2253-2263.	0.4	3

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91	Quantitative evaluation of blood flow in each cerebral branch associated with zone 1â€“2 thoracic endovascular aortic repair. <i>European Journal of Cardio-thoracic Surgery</i> , 2019, 55, 1079-1085.	0.6	3
92	Reduction of misregistration on cerebral four-dimensional computed tomography angiography images using advanced patient motion correction reconstruction. <i>Japanese Journal of Radiology</i> , 2016, 34, 605-610.	1.0	2
93	circRNA meets gene amplification. <i>Non-coding RNA Investigation</i> , 2018, 2, 38-38.	0.6	2
94	Complex repeat structure promotes hyper-amplification and amplicon evolution through rolling-circle replication. <i>Nucleic Acids Research</i> , 2018, 46, 5097-5108.	6.5	2
95	Mutant POLQ and POLZ/REV3L DNA polymerases may contribute to the favorable survival of patients with tumors with POLE mutations outside the exonuclease domain. <i>BMC Medical Genetics</i> , 2020, 21, 167.	2.1	2
96	Accurate bone registration in knee MR images. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsuch K'an</i> , 2012, 35, 101-113.	0.6	1
97	Right cerebellar infarction due to ipsilateral neck-rotation-induced right vertebral artery compression and occlusion, demonstrated by CT angiography. <i>Radiology Case Reports</i> , 2015, 10, 1025.	0.2	1
98	Adult hemimegalencephaly associated with multiple cerebral aneurysms. <i>Neurology</i> , 2015, 84, 2460-2461.	1.5	1
99	The applications of plasma cell-free DNA in cancer detection: Implications in the management of breast cancer patients. <i>Critical Reviews in Oncology/Hematology</i> , 2022, 175, 103725.	2.0	1
100	Abstract of Symposium. <i>Human Cell</i> , 2005, 18, 29-33.	1.2	0
101	Automatic 3D MR Image Registration and Its Evaluation for Precise Monitoring of Knee Joint Disease. <i>IEICE Transactions on Information and Systems</i> , 2011, E94-D, 698-706.	0.4	0
102	Impact of neoadjuvant HER2-directed therapy on HER2 status in breast cancer.. <i>Journal of Clinical Oncology</i> , 2017, 35, e12130-e12130.	0.8	0
103	Effect of urinary glucose concentration and pH on signal intensity in magnetic resonance images. <i>Japanese Journal of Radiology</i> , 2022, , 1.	1.0	0