

Amir H Gandjbakhche

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

1,943
citations

257450

24
h-index

276875

41
g-index

78
all docs

78
docs citations

78
times ranked

2495
citing authors

#	ARTICLE	IF	CITATIONS
1	Affibody Molecules for <i>In vivo</i> Characterization of HER2-Positive Tumors by Near-Infrared Imaging. <i>Clinical Cancer Research</i> , 2008, 14, 3840-3849.	7.0	164
2	A Review of the Effectiveness of Neuroimaging Modalities for the Detection of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2015, 32, 1693-1721.	3.4	163
3	Real time <i>in vivo</i> non-invasive optical imaging using near-infrared fluorescent quantum dots1. <i>Academic Radiology</i> , 2005, 12, 313-323.	2.5	155
4	Using noninvasive multispectral imaging to quantitatively assess tissue vasculature. <i>Journal of Biomedical Optics</i> , 2007, 12, 051604.	2.6	91
5	Capturing dynamic patterns of task-based functional connectivity with EEG. <i>NeuroImage</i> , 2013, 66, 311-317.	4.2	70
6	Quantification of optical properties of a breast tumor using random walk theory. <i>Journal of Biomedical Optics</i> , 2002, 7, 80.	2.6	58
7	Fluorescence lifetime imaging system for <i>in vivo</i> studies. <i>Molecular Imaging</i> , 2007, 6, 229-36.	1.4	57
8	Near-Infrared Fluorescence Lifetime pH-Sensitive Probes. <i>Biophysical Journal</i> , 2011, 100, 2063-2072.	0.5	56
9	Myocardial oxygenation <i>in vivo</i> : optical spectroscopy of cytoplasmic myoglobin and mitochondrial cytochromes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H683-H697.	3.2	50
10	HER2-Affitoxin: A Potent Therapeutic Agent for the Treatment of HER2-Overexpressing Tumors. <i>Clinical Cancer Research</i> , 2011, 17, 5071-5081.	7.0	46
11	Advances in Optical Spectroscopy and Imaging of Breast Lesions. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2006, 11, 165-181.	2.7	42
12	Quantification by random walk of the optical parameters of nonlocalized abnormalities embedded within tissuelike phantoms. <i>Optics Letters</i> , 2000, 25, 951.	3.3	37
13	Quantitative Assessment of Tumor Vasculature and Response to Therapy in Kaposi's Sarcoma Using Functional Noninvasive Imaging. <i>Technology in Cancer Research and Treatment</i> , 2004, 3, 451-457.	1.9	35
14	Visible-light photon migration through myocardium <i>in vivo</i> . <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H698-H704.	3.2	34
15	<i>In Vivo</i> Fluorescence Lifetime Imaging Monitors Binding of Specific Probes to Cancer Biomarkers. <i>PLoS ONE</i> , 2012, 7, e31881.	2.5	33
16	Optimization of multiphoton excitation microscopy by total emission detection using a parabolic light reflector. <i>Journal of Microscopy</i> , 2007, 228, 330-337.	1.8	32
17	Using <i>In-Vivo</i> Fluorescence Imaging in Personalized Cancer Diagnostics and Therapy, an Image and Treat Paradigm. <i>Technology in Cancer Research and Treatment</i> , 2011, 10, 549-560.	1.9	31
18	Normative database of judgment of complexity task with functional near infrared spectroscopy—Application for TBI. <i>NeuroImage</i> , 2012, 60, 879-883.	4.2	30

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19	Point spread functions of photons in time-resolved transillumination experiments using simple scaling arguments. <i>Medical Physics</i> , 1996, 23, 1857-1861.	3.0	29
20	Quantitative Analysis of HER2 Receptor Expression In Vivo by Near-Infrared Optical Imaging. <i>Molecular Imaging</i> , 2010, 9, 7290.2010.00018.	1.4	29
21	Fluorescence lifetime imaging of activatable target specific molecular probes. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 1-8.	0.8	29
22	A machine learning approach to identify functional biomarkers in human prefrontal cortex for individuals with traumatic brain injury using functional near-infrared spectroscopy. <i>Brain and Behavior</i> , 2016, 6, e00541.	2.2	29
23	Assessment of cerebrovascular dysfunction after traumatic brain injury with fMRI and fNIRS. <i>NeuroImage: Clinical</i> , 2020, 25, 102086.	2.7	29
24	Review of the efficacy of infrared thermography for screening infectious diseases with applications to COVID-19. <i>Journal of Medical Imaging</i> , 2021, 8, 010901.	1.5	25
25	Descriptive parameter for photon trajectories in a turbid medium. <i>Physical Review E</i> , 2000, 61, 6958-6962.	2.1	24
26	Radioactivity-Synchronized Fluorescence Enhancement Using a Radionuclide Fluorescence-Quenched Dye. <i>Journal of the American Chemical Society</i> , 2009, 131, 9198-9200.	13.7	23
27	<i>In Vivo</i> Fluorescence Lifetime Imaging for Monitoring the Efficacy of the Cancer Treatment. <i>Clinical Cancer Research</i> , 2014, 20, 3531-3539.	7.0	23
28	Prefrontal Activation During Executive Tasks Emerges Over Early Childhood: Evidence From Functional Near Infrared Spectroscopy. <i>Developmental Neuropsychology</i> , 2017, 42, 253-264.	1.4	23
29	Experimental evaluation of an anisotropic scattering model of a slab geometry. <i>Optics Letters</i> , 2004, 29, 2518.	3.3	22
30	Quantitative analysis of Her2 receptor expression in vivo by near-infrared optical imaging. <i>Molecular Imaging</i> , 2010, 9, 192-200.	1.4	22
31	Canonical correlation analysis of brain prefrontal activity measured by functional near infra-red spectroscopy (fNIRS) during a moral judgment task. <i>Behavioural Brain Research</i> , 2019, 359, 73-80.	2.2	21
32	Functional Properties of a Prototype Rheolytic Catheter for Percutaneous Thrombectomy. <i>Investigative Radiology</i> , 1994, 29, 547-552.	6.2	19
33	Depth dependence of the analytical expression for the width of the point spread function (spatial) $T_j \text{ETQq1} 1 0.784314 \text{rgBT} / \text{Overlap}$	2.6	19
34	Tissue Characterization by Quantitative Optical Imaging Methods. <i>Technology in Cancer Research and Treatment</i> , 2003, 2, 537-551.	1.9	19
35	Affibody-DyLight Conjugates for In Vivo Assessment of HER2 Expression by Near-Infrared Optical Imaging. <i>PLoS ONE</i> , 2012, 7, e41016.	2.5	19
36	Facial Plethora: Modern Technology for Quantifying an Ancient Clinical Sign and Its Use in Cushing Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 3928-3933.	3.6	19

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37	Choice of data types in time resolved fluorescence enhanced diffuse optical tomography. <i>Medical Physics</i> , 2007, 34, 4890-4900.	3.0	18
38	The role of prefrontal cortex in a moral judgment task using functional near-infrared spectroscopy. <i>Brain and Behavior</i> , 2018, 8, e01116.	2.2	18
39	Quantitative principal component model for skin chromophore mapping using multi-spectral images and spatial priors. <i>Biomedical Optics Express</i> , 2011, 2, 1040.	2.9	17
40	An introduction to primary skin imaging. <i>International Journal of Dermatology</i> , 2013, 52, 1319-1330.	1.0	17
41	The Iowa Gambling Task: A Review of the Historical Evolution, Scientific Basis, and Use in Functional Neuroimaging. <i>SAGE Open</i> , 2019, 9, 215824401985691.	1.7	17
42	Using in vivo fluorescence lifetime imaging to detect HER2-positive tumors. <i>EJNMMI Research</i> , 2018, 8, 26.	2.5	16
43	Experimental validation of an elementary formula for estimating spatial resolution for optical transillumination imaging. <i>Medical Physics</i> , 1995, 22, 1271-1272.	3.0	15
44	Spatial distribution of VEGF isoforms and chemotactic signals in the vicinity of a tumor. <i>Journal of Theoretical Biology</i> , 2008, 252, 593-607.	1.7	15
45	Characterizing the Action-Observation Network Through Functional Near-Infrared Spectroscopy: A Review. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 627983.	2.0	15
46	Prefrontal Hemodynamics in Toddlers at Rest: A Pilot Study of Developmental Variability. <i>Frontiers in Neuroscience</i> , 2017, 11, 300.	2.8	13
47	Exploring the role of task performance and learning style on prefrontal hemodynamics during a working memory task. <i>PLoS ONE</i> , 2018, 13, e0198257.	2.5	13
48	Effects of Performance and Task Duration on Mental Workload during Working Memory Task. <i>Photonics</i> , 2019, 6, 94.	2.0	13
49	Current and Future Tools for Diagnosis of Kaposi's Sarcoma. <i>Cancers</i> , 2021, 13, 5927.	3.7	11
50	A hematoma detector—a practical application of instrumental motion as signal in near infra-red imaging. <i>Biomedical Optics Express</i> , 2012, 3, 192.	2.9	10
51	Effect of lateral boundaries on contrast functions in time-resolved transillumination measurements. <i>Medical Physics</i> , 1999, 26, 1822-1831.	3.0	9
52	Evaluation of neurocognitive function of prefrontal cortex in ornithine transcarbamylase deficiency. <i>Molecular Genetics and Metabolism</i> , 2020, 129, 207-212.	1.1	9
53	In vivo method to monitor changes in HER2 expression using near-infrared fluorescence imaging. <i>Molecular Imaging</i> , 2012, 11, 177-86.	1.4	9
54	Using Quantitative Imaging Techniques to Assess Vascularity in AIDS-Related Kaposi's Sarcoma. , 2006, 232-5.		8

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55	Topology of the heterogeneous nature of the extracellular matrix on stochastic modeling of tumor-induced angiogenesis. <i>Microvascular Research</i> , 2009, 77, 87-95.	2.5	7
56	Comparison of Functional Connectivity in the Prefrontal Cortex during a Simple and an Emotional Go/No-Go Task in Female versus Male Groups: An fNIRS Study. <i>Brain Sciences</i> , 2021, 11, 909.	2.3	7
57	Structured sparse multiset canonical correlation analysis of simultaneous fNIRS and EEG provides new insights into the human action-observation network. <i>Scientific Reports</i> , 2022, 12, 6878.	3.3	7
58	Enhancing diffraction-limited images using properties of the point spread function. <i>Optics Express</i> , 2006, 14, 3193.	3.4	6
59	A CTRW-based model of time-resolved fluorescence lifetime imaging in a turbid medium. <i>Optics Communications</i> , 2010, 283, 4832-4839.	2.1	6
60	Probing Neurovisceral Integration via Functional Near-Infrared Spectroscopy and Heart Rate Variability. <i>Frontiers in Neuroscience</i> , 2020, 14, 575589.	2.8	6
61	An fNIRS Study of Brain Lateralization During Observation and Execution of a Fine Motor Task. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 798870.	2.0	6
62	Studying the Accuracy and Function of Different Thermometry Techniques for Measuring Body Temperature. <i>Biology</i> , 2021, 10, 1327.	2.8	6
63	Gaming behavior and brain activation using functional near-infrared spectroscopy, Iowa gambling task, and machine learning techniques. <i>Brain and Behavior</i> , 2022, 12, e2536.	2.2	6
64	Using Functional Connectivity to Examine the Correlation between Mirror Neuron Network and Autistic Traits in a Typically Developing Sample: A fNIRS Study. <i>Brain Sciences</i> , 2021, 11, 397.	2.3	5
65	Evaluation of Non-Invasive Multispectral Imaging as a Tool for Measuring the Effect of Systemic Therapy in Kaposi Sarcoma. <i>PLoS ONE</i> , 2013, 8, e83887.	2.5	5
66	In Vivo Assessment of HER2 Receptor Density in HER2-positive Tumors by Near-infrared Imaging, Using Repeated Injections of the Fluorescent Probe. <i>TCRT Express</i> , 2014, 13, 427-34.	1.5	4
67	The Quest for Functional Biomarkers in the Prefrontal Cortex Using Functional Near-Infrared Spectroscopy (fNIRS). , 2019, , 123-136.		4
68	Cerebral hemodynamic response during a live action-observation and action-execution task: A fNIRS study. <i>PLoS ONE</i> , 2021, 16, e0253788.	2.5	4
69	A resolution insensitive to geometrical aberrations by using incoherent illumination and interference imaging. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1603-1621.	2.6	3
70	Hemodynamics of Prefrontal Cortex in Ornithine Transcarbamylase Deficiency: A Twin Case Study. <i>Frontiers in Neurology</i> , 2020, 11, 809.	2.4	3
71	Machine Learning in Cognitive Neuroimaging. , 2020, , 167-182.		2
72	Noninvasive Multimodality Imaging Techniques to Assess Kaposi's Sarcoma. , 2005, 2006, 694-6.		1

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73	Multivariate Machine Learning Approaches for Data Fusion: Behavioral and Neuroimaging (Functional) Tj ETQq1 1 0.784314 rgBT /Overl		
74	Application of machine learning techniques in investigating the relationship between neuroimaging dataset measured by functional near infra-red spectroscopy and behavioral dataset in a moral judgment task. , 2019, , .		1
75	Nanobiophotonics: Breaking the diffraction barrier in the subwavelength nanoscale. , 2008, , .		0
76	Multi-set canonical correlation analysis in action-observation (mirror neuron) study. , 2020, , .		0