Amir H Gandjbakhche

List of Publications by Year
in descending order

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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	Gaming behavior and brain activation using functional nearâ€infrared spectroscopy, Iowa gambling task, and machine learning techniques. Brain and Behavior, 2022, 12, e2536.	2.2	6
2	Structured sparse multiset canonical correlation analysis of simultaneous fNIRS and EEG provides new insights into the human action-observation network. Scientific Reports, 2022, 12, 6878.	3.3	7
3	Characterizing the Action-Observation Network Through Functional Near-Infrared Spectroscopy: A Review. Frontiers in Human Neuroscience, 2021, 15, 627983.	2.0	15
4	Review of the efficacy of infrared thermography for screening infectious diseases with applications to COVID-19. Journal of Medical Imaging, 2021, 8, 010901.	1.5	25
5	Using Functional Connectivity to Examine the Correlation between Mirror Neuron Network and Autistic Traits in a Typically Developing Sample: A fNIRS Study. Brain Sciences, 2021, 11, 397.	2.3	5
6	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. Brain Sciences, 2021, 11, 909.	2.3	7
7	Cerebral hemodynamic response during a live action-observation and action-execution task: A fNIRS study. PLoS ONE, 2021, 16, e0253788.	2.5	4
8	Current and Future Tools for Diagnosis of Kaposiâ€™s Sarcoma. Cancers, 2021, 13, 5927.	3.7	11
9	An fNIRS Study of Brain Lateralization During Observation and Execution of a Fine Motor Task. Frontiers in Human Neuroscience, 2021, 15, 798870.	2.0	6
10	Studying the Accuracy and Function of Different Thermometry Techniques for Measuring Body Temperature. Biology, 2021, 10, 1327.	2.8	6
11	Assessment of cerebrovascular dysfunction after traumatic brain injury with fMRI and fNIRS. NeuroImage: Clinical, 2020, 25, 102086.	2.7	29
12	Hemodynamics of Prefrontal Cortex in Ornithine Transcarbamylase Deficiency: A Twin Case Study. Frontiers in Neurology, 2020, 11, 809.	2.4	3
13	Probing Neurovisceral Integration via Functional Near-Infrared Spectroscopy and Heart Rate Variability. Frontiers in Neuroscience, 2020, 14, 575589.	2.8	6
14	Evaluation of neurocognitive function of prefrontal cortex in ornithine transcarbamylase deficiency. Molecular Genetics and Metabolism, 2020, 129, 207-212.	1.1	9
15	Machine Learning in Cognitive Neuroimaging. , 2020, , 167-182.		2
16	Multi-set canonical correlation analysis in action-observation (mirror neuron) study. , 2020, , .		0
17	The Iowa Gambling Task: A Review of the Historical Evolution, Scientific Basis, and Use in Functional Neuroimaging. SAGE Open, 2019, 9, 215824401985691.	1.7	17
18	Effects of Performance and Task Duration on Mental Workload during Working Memory Task. Photonics, 2019, 6, 94.	2.0	13

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19	The Quest for Functional Biomarkers in the Prefrontal Cortex Using Functional Near-Infrared Spectroscopy (fNIRS). , 2019, , 123-136.		4
20	Canonical correlation analysis of brain prefrontal activity measured by functional near infra-red spectroscopy (fNIRS) during a moral judgment task. Behavioural Brain Research, 2019, 359, 73-80.	2.2	21
21	Multivariate Machine Learning Approaches for Data Fusion: Behavioral and Neuroimaging (Functional) Tj ETQq1 1 0.784314 rgBT /Ov		1
22	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
23	The role of prefrontal cortex in a moral judgment task using functional nearâ€infrared spectroscopy. Brain and Behavior, 2018, 8, e01116.	2.2	18
24	Exploring the role of task performance and learning style on prefrontal hemodynamics during a working memory task. PLoS ONE, 2018, 13, e0198257.	2.5	13
25	Using in vivo fluorescence lifetime imaging to detect HER2-positive tumors. EJNMMI Research, 2018, 8, 26.	2.5	16
26	Prefrontal Activation During Executive Tasks Emerges Over Early Childhood: Evidence From Functional Near Infrared Spectroscopy. Developmental Neuropsychology, 2017, 42, 253-264.	1.4	23
27	A resolution insensitive to geometrical aberrations by using incoherent illumination and interference imaging. European Physical Journal: Special Topics, 2017, 226, 1603-1621.	2.6	3
28	Prefrontal Hemodynamics in Toddlers at Rest: A Pilot Study of Developmental Variability. Frontiers in Neuroscience, 2017, 11, 300.	2.8	13
29	A machine learning approach to identify functional biomarkers in human prefrontal cortex for individuals with traumatic brain injury using functional nearâ€infrared spectroscopy. Brain and Behavior, 2016, 6, e00541.	2.2	29
30	A Review of the Effectiveness of Neuroimaging Modalities for the Detection of Traumatic Brain Injury. Journal of Neurotrauma, 2015, 32, 1693-1721.	3.4	163
31	Facial Plethora: Modern Technology for Quantifying an Ancient Clinical Sign and Its Use in Cushing Syndrome. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 3928-3933.	3.6	19
32	In Vivo Assessment of HER2 Receptor Density in HER2-positive Tumors by Near-infrared Imaging, Using Repeated Injections of the Fluorescent Probe. TCRT Express, 2014, 13, 427-34.	1.5	4
33	In Vivo Fluorescence Lifetime Imaging for Monitoring the Efficacy of the Cancer Treatment. Clinical Cancer Research, 2014, 20, 3531-3539.	7.0	23
34	Capturing dynamic patterns of task-based functional connectivity with EEG. NeuroImage, 2013, 66, 311-317.	4.2	70
35	An introduction to primary skin imaging. International Journal of Dermatology, 2013, 52, 1319-1330.	1.0	17
36	Evaluation of Non-Invasive Multispectral Imaging as a Tool for Measuring the Effect of Systemic Therapy in Kaposi Sarcoma. PLoS ONE, 2013, 8, e83887.	2.5	5

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37	A hematoma detectorâ€"a practical application of instrumental motion as signal in near infra-red imaging. Biomedical Optics Express, 2012, 3, 192.	2.9	10
38	Normative database of judgment of complexity task with functional near infrared spectroscopyâ€"Application for TBI. NeuroImage, 2012, 60, 879-883.	4.2	30
39	In Vivo Fluorescence Lifetime Imaging Monitors Binding of Specific Probes to Cancer Biomarkers. PLoS ONE, 2012, 7, e31881.	2.5	33
40	Affibody-DyLight Conjugates for In Vivo Assessment of HER2 Expression by Near-Infrared Optical Imaging. PLoS ONE, 2012, 7, e41016.	2.5	19
41	In vivo method to monitor changes in HER2 expression using near-infrared fluorescence imaging. Molecular Imaging, 2012, 11, 177-86.	1.4	9
42	Near-Infrared Fluorescence Lifetime pH-Sensitive Probes. Biophysical Journal, 2011, 100, 2063-2072.	0.5	56
43	Quantitative principal component model for skin chromophore mapping using multi-spectral images and spatial priors. Biomedical Optics Express, 2011, 2, 1040.	2.9	17
44	HER2-Affitoxin: A Potent Therapeutic Agent for the Treatment of HER2-Overexpressing Tumors. Clinical Cancer Research, 2011, 17, 5071-5081.	7.0	46
45	Using In-Vivo Fluorescence Imaging in Personalized Cancer Diagnostics and Therapy, an Image and Treat Paradigm. Technology in Cancer Research and Treatment, 2011, 10, 549-560.	1.9	31
46	Quantitative Analysis of HER2 Receptor Expression In Vivo by Near-Infrared Optical Imaging. Molecular Imaging, 2010, 9, 7290.2010.00018.	1.4	29
47	Fluorescence lifetime imaging of activatable target specific molecular probes. Contrast Media and Molecular Imaging, 2010, 5, 1-8.	0.8	29
48	A CTRW-based model of time-resolved fluorescence lifetime imaging in a turbid medium. Optics Communications, 2010, 283, 4832-4839.	2.1	6
49	Quantitative analysis of Her2 receptor expression in vivo by near-infrared optical imaging. Molecular Imaging, 2010, 9, 192-200.	1.4	22
50	Topology of the heterogeneous nature of the extracellular matrix on stochastic modeling of tumor-induced angiogenesis. Microvascular Research, 2009, 77, 87-95.	2.5	7
51	Radioactivity-Synchronized Fluorescence Enhancement Using a Radionuclide Fluorescence-Quenched Dye. Journal of the American Chemical Society, 2009, 131, 9198-9200.	13.7	23
52	Spatial distribution of VEGF isoforms and chemotactic signals in the vicinity of a tumor. Journal of Theoretical Biology, 2008, 252, 593-607.	1.7	15
53	Nanobiophotonics: Breaking the diffraction barrier in the subwavelength nanoscale. , 2008, , .		0
54	Affibody Molecules for In vivo Characterization of HER2-Positive Tumors by Near-Infrared Imaging. Clinical Cancer Research, 2008, 14, 3840-3849.	7.0	164

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55	Choice of data types in time resolved fluorescence enhanced diffuse optical tomography. Medical Physics, 2007, 34, 4890-4900.	3.0	18
56	Using noninvasive multispectral imaging to quantitatively assess tissue vasculature. Journal of Biomedical Optics, 2007, 12, 051604.	2.6	91
57	Optimization of multiphoton excitation microscopy by total emission detection using a parabolic light reflector. Journal of Microscopy, 2007, 228, 330-337.	1.8	32
58	Fluorescence lifetime imaging system for in vivo studies. Molecular Imaging, 2007, 6, 229-36.	1.4	57
59	Enhancing diffraction-limited images using properties of the point spread function. Optics Express, 2006, 14, 3193.	3.4	6
60	Advances in Optical Spectroscopy and Imaging of Breast Lesions. Journal of Mammary Gland Biology and Neoplasia, 2006, 11, 165-181.	2.7	42
61	Using Quantitative Imaging Techniques to Assess Vascularity in AIDS-Related Kaposi's Sarcoma. , 2006, 2006, 232-5.		8
62	Real time in vivo non-invasive optical imaging using near-infrared fluorescent quantum dots1. Academic Radiology, 2005, 12, 313-323.	2.5	155
63	Noninvasive Multimodality Imaging Techniques to Assess Kaposi's Sarcoma. , 2005, 2006, 694-6.		1
64	Quantitative Assessment of Tumor Vasculature and Response to Therapy in Kaposi's Sarcoma Using Functional Noninvasive Imaging. Technology in Cancer Research and Treatment, 2004, 3, 451-457.	1.9	35
65	Experimental evaluation of an anisotropic scattering model of a slab geometry. Optics Letters, 2004, 29, 2518.	3.3	22
66	Tissue Characterization by Quantitative Optical Imaging Methods. Technology in Cancer Research and Treatment, 2003, 2, 537-551.	1.9	19
67	Quantification of optical properties of a breast tumor using random walk theory. Journal of Biomedical Optics, 2002, 7, 80.	2.6	58
68	Depth dependence of the analytical expression for the width of the point spread function (spatial) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	19
69	Descriptive parameter for photon trajectories in a turbid medium. Physical Review E, 2000, 61, 6958-6962.	2.1	24
70	Quantification by random walk of the optical parameters of nonlocalized abnormalities embedded within tissuelike phantoms. Optics Letters, 2000, 25, 951.	3.3	37
71	Visible-light photon migration through myocardium in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H698-H704.	3.2	34
72	Myocardial oxygenation in vivo: optical spectroscopy of cytoplasmic myoglobin and mitochondrial cytochromes. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H683-H697.	3.2	50

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73	Effect of lateral boundaries on contrast functions in time-resolved transillumination measurements. Medical Physics, 1999, 26, 1822-1831.	3.0	9
74	Point spread functions of photons in time-resolved transillumination experiments using simple scaling arguments. Medical Physics, 1996, 23, 1857-1861.	3.0	29
75	Experimental validation of an elementary formula for estimating spatial resolution for optical transillumination imaging. Medical Physics, 1995, 22, 1271-1272.	3.0	15
76	Functional Properties of a Prototype Rheolytic Catheter for Percutaneous Thrombectomy. Investigative Radiology, 1994, 29, 547-552.	6.2	19