Giannis Zacharakis

List of Publications by Year
in descending order

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		393982	360668
105	1,501	19	35
papers	citations	h-index	g-index

107	107	107	1387
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Random laser action in organicâ€“inorganic nanocomposites. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 208.	0.9	113
2	Volumetric tomography of fluorescent proteins through small animals in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18252-18257.	3.3	112
3	Complete-angle projection diffuse optical tomography by use of early photons. Optics Letters, 2005, 30, 409.	1.7	91
4	Fluorescent protein tomography scanner for small animal imaging. IEEE Transactions on Medical Imaging, 2005, 24, 878-885.	5.4	87
5	Photon statistics of laserlike emission from polymeric scattering gain media. Optics Letters, 2000, 25, 923.	1.7	67
6	Noncontact optical imaging in mice with full angular coverage and automatic surface extraction. Applied Optics, 2007, 46, 3617.	2.1	65
7	Experimental determination of photon propagation in highly absorbing and scattering media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 546.	0.8	49
8	Three-Dimensional in Vivo Imaging of Green Fluorescent Protein-Expressing T Cells in Mice with Noncontact Fluorescence Molecular Tomography. Molecular Imaging, 2007, 6, 7290.2007.00007.	0.7	44
9	Photoacoustic imaging reveals hidden underdrawings in paintings. Scientific Reports, 2017, 7, 747.	1.6	43
10	Random lasing following two-photon excitation of highly scattering gain media. Applied Physics Letters, 2002, 81, 2511-2513.	1.5	40
11	An evaluation of the dosimetric performance characteristics of N-vinylpyrrolidone-based polymer gels. Physics in Medicine and Biology, 2007, 52, 5069-5083.	1.6	40
12	On-line photoacoustic monitoring of laser cleaning on stone: Evaluation of cleaning effectiveness and detection of potential damage to the substrate. Journal of Cultural Heritage, 2019, 35, 108-115.	1.5	33
13	Artificial neural networks for discriminating pathologic from normal peripheral vascular tissue. IEEE Transactions on Biomedical Engineering, 2001, 48, 1088-1097.	2.5	30
14	Investigation of the laserlike behavior of polymeric scattering gain media under subpicosecond laser excitation. Applied Optics, 1999, 38, 6087.	2.1	29
15	Development of a hybrid photoacoustic and optical monitoring system for the study of laser ablation processes upon the removal of encrustation from stonework. Opto-Electronic Advances, 2020, 3, 19003701-19003711.	6.4	29
16	Normalized Transillumination of Fluorescent Proteins in Small Animals. Molecular Imaging, 2006, 5, 7290.2006.00018.	0.7	27
17	A Customized Light Sheet Microscope to Measure Spatio-Temporal Protein Dynamics in Small Model Organisms. PLoS ONE, 2015, 10, e0127869.	1.1	25
18	A New Optical-CT Apparatus for 3-D Radiotherapy Dosimetry: Is Free Space Scanning Feasible?. IEEE Transactions on Medical Imaging, 2010, 29, 1204-1212.	5.4	24

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19	Integrating in vitro experiments with in silico approaches for Glioblastoma invasion: the role of cell-to-cell adhesion heterogeneity. Scientific Reports, 2018, 8, 16200.	1.6	24
20	Micro-Computed Tomographic Evaluation of Canal Transportation and Centering Ability of 4 Heat-Treated Nickel-Titanium Systems. Journal of Endodontics, 2020, 46, 675-681.	1.4	24
21	Hybrid photoacoustic and optical imaging of pigments in vegetative tissues. Journal of Microscopy, 2016, 263, 300-306.	0.8	19
22	Non-invasive photoacoustic detection of hidden underdrawings in paintings using air-coupled transducers. Ultrasonics, 2019, 98, 94-98.	2.1	19
23	Spectroscopic detection improves multi-color quantification in fluorescence tomography. Biomedical Optics Express, 2011, 2, 431.	1.5	18
24	Uncovering the hidden content of layered documents by means of photoacoustic imaging. Strain, 2019, 55, e12289.	1.4	18
25	Tailored light sheets through opaque cylindrical lenses. Optica, 2016, 3, 1237.	4.8	17
26	Photoacoustic signal attenuation analysis for the assessment of thin layers thickness in paintings. Journal of Applied Physics, 2018, 123, 123102.	1.1	17
27	Optical characterization of thin female breast biopsies based on the reduced scattering coefficient. Physics in Medicine and Biology, 2005, 50, 2583-2596.	1.6	16
28	Enhanced adaptive focusing through semi-transparent media. Scientific Reports, 2015, 5, 17406.	1.6	16
29	A 3D tumor spheroid model for the T98G Glioblastoma cell line phenotypic characterization. Tissue and Cell, 2019, 59, 39-43.	1.0	16
30	Tailoring non-diffractive beams from amorphous light speckles. Applied Physics Letters, 2016, 109, .	1.5	14
31	Phase-Retrieved Tomography enables Mesoscopic imaging of Opaque Tumor Spheroids. Scientific Reports, 2017, 7, 11854.	1.6	14
32	Noninvasive optical estimation of CSF thickness for brain-atrophy monitoring. Biomedical Optics Express, 2018, 9, 4094.	1.5	14
33	Characterization of the reduced scattering coefficient for optically thin samples: theory and experiments. Journal of Optics, 2004, 6, 725-735.	1.5	13
34	Source intensity profile in noncontact optical tomography. Optics Letters, 2010, 35, 34.	1.7	13
35	Hyperuniformity in amorphous speckle patterns. Optics Express, 2018, 26, 15594.	1.7	13
36	Combined photoacoustic imaging to delineate the internal structure of paintings. Optics Letters, 2019, 44, 919.	1.7	13

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37	Tomographic imaging with polarized light. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 980.	0.8	12
38	A hybrid discrete-continuous model of in vitro spheroid tumor growth and drug response. , 2016, 2016, 6142-6145.		12
39	Delineating the anatomy of the ciliary body using hybrid optical and photoacoustic imaging. Journal of Biomedical Optics, 2017, 22, 060501.	1.4	12
40	Enhanced Light Sheet Elastic Scattering Microscopy by Using a Supercontinuum Laser. Methods and Protocols, 2019, 2, 57.	0.9	12
41	Listening to laser light interactions with objects of art: a novel photoacoustic approach for diagnosis and monitoring of laser cleaning interventions. Heritage Science, 2020, 8, .	1.0	12
42	Optical projection tomography via phase retrieval algorithms. Methods, 2018, 136, 81-89.	1.9	11
43	First combined application of photoacoustic and optical techniques to the study of an historical oil painting. European Physical Journal Plus, 2021, 136, 1.	1.2	11
44	Normalized transillumination of fluorescent proteins in small animals. Molecular Imaging, 2006, 5, 153-9.	0.7	10
45	Technical Note: A fast laserâ€based opticalâ€CT scanner for threeâ€dimensional radiation dosimetry. Medical Physics, 2011, 38, 830-835.	1.6	9
46	Full image reconstruction in frequency-domain photoacoustic microscopy by means of a low-cost I/Q demodulator. Optics Letters, 2021, 46, 4718.	1.7	9
47	Effect of liquid-nitrogen and formalin-based conservation in the in vitro measurement of laser-induced fluorescence from peripheral vascular tissue. Journal of Photochemistry and Photobiology B: Biology, 1998, 47, 109-114.	1.7	8
48	In vitro optical characterization and discrimination of female breast tissue during near infrared femtosecond laser pulses propagation. Journal of Biomedical Optics, 2001, 6, 446.	1.4	8
49	Prehistological evaluation of benign and malignant pigmented skin lesions with optical computed tomography. Journal of Biomedical Optics, 2012, 17, 066004.	1.4	8
50	Revealing Hidden Features in Multilayered Artworks by Means of an Epi-Illumination Photoacoustic Imaging System. Journal of Imaging, 2021, 7, 183.	1.7	8
51	Hidden phase-retrieved fluorescence tomography. Optics Letters, 2020, 45, 2191.	1.7	8
52	Hybrid autofluorescence and photoacoustic label-free microscopy for the investigation and identification of malignancies in ocular biopsies. Optics Letters, 2020, 45, 5748.	1.7	8
53	A One Layer Tissue Fluorescence Model Based On Electromagnetic Theory. Journal of Electromagnetic Waves and Applications, 1998, 12, 1101-1121.	1.0	7
54	Fluorescence Diffusion in the Presence of Optically Clear Tissues in a Mouse Head Model. IEEE Transactions on Medical Imaging, 2017, 36, 1086-1093.	5.4	7

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55	Combined multiphoton fluorescence microscopy and photoacoustic imaging for stratigraphic analysis of paintings. Optics Letters, 2019, 44, 1154.	1.7	7
56	Fabrication and characterization of a 3-D non-homogeneous tissue-like mouse phantom for optical imaging. , 2013, , .		6
57	Quantitative performance characterization of three-dimensional noncontact fluorescence molecular tomography. Journal of Biomedical Optics, 2016, 21, 026009.	1.4	6
58	Demonstrating Improved Multiple Transportâ€Meanâ€Freeâ€Path Imaging Capabilities of Light Sheet Microscopy in the Quantification of Fluorescence Dynamics. Biotechnology Journal, 2018, 13, 1700419.	1.8	6
59	Hybrid confocal fluorescence and photoacoustic microscopy for the label-free investigation of melanin accumulation in fish scales. Scientific Reports, 2022, 12, 7173.	1.6	6
60	Autofluorescence removal from fluorescence tomography data using multispectral imaging. Proceedings of SPIE, 2007, 6626, 77.	0.8	5
61	MULTISPECTRAL UNMIXING OF FLUORESCENCE MOLECULAR TOMOGRAPHY DATA. Journal of Innovative Optical Health Sciences, 2009, 02, 353-364.	0.5	5
62	Nonparametric characterization of human breast tissue by the Laguerre expansion of the kernels technique applied on propagating femtosecond laser pulses through biopsy samples. Applied Physics Letters, 1999, 74, 771-772.	1.5	4
63	Single and double wavelength excitation of laser-induced fluorescence of normal and atherosclerotic peripheral vascular tissue. Journal of Photochemistry and Photobiology B: Biology, 2000, 56, 163-171.	1.7	4
64	Random Lasers Based on Organic-Inorganic Hybrids. Materials Research Society Symposia Proceedings, 2002, 726, .	0.1	4
65	Revealing Underdrawings in Wall Paintings of Complex Stratigraphy with a Novel Reflectance Photoacoustic Imaging Prototype. Journal of Imaging, 2021, 7, 250.	1.7	4
66	A multi-projection non-contact tomography setup for imaging arbitrary geometries. , 2005, , .		3
67	Employing in-vivo molecular imaging in simulating and validating tumor growth. , 2013, 2013, 5533-6.		3
68	PML Differentially Regulates Growth and Invasion in Brain Cancer. International Journal of Molecular Sciences, 2021, 22, 6289.	1.8	3
69	The role of cerebral spinal fluid in light propagation through the mouse head: improving fluorescence tomography with Monte Carlo modeling. , 2016, , .		2
70	Photoacoustic imaging methodology for the optical characterization of contact lenses. Optics Letters, 2017, 42, 4111.	1.7	2
71	A Cost-Efficient Multiwavelength LED-Based System for Quantitative Photoacoustic Measurements. Sensors, 2021, 21, 4888.	2.1	2
72	High resolution 3D imaging of primary and secondary tumor spheroids using multicolor multi-angle Light Sheet Fluorescence Microscopy (LSFM). , 2019, , .		2

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73	3D in-vivo imaging of GFP-expressing T-cells in mice with non-contact fluorescence molecular tomography (Invited Paper). , 2005, , .		1
74	3D in vivo imaging of GFP-expressing T-cells in mice with non-contact fluorescence molecular tomography. , 2006, , .		1
75	Spectral unmixing of multi-color tissue specific in vivo fluorescence in mice. Proceedings of SPIE, 2007, , .	0.8	1
76	Kinetics of T-cell receptor-dependent antigen recognition determinedin vivoby multi-spectral normalized epifluorescence laser scanning. Journal of Biomedical Optics, 2012, 17, 0760131.	1.4	1
77	Light propagation through weakly scattering media: a study of Monte Carlo vs. diffusion theory with application to neuroimaging. Proceedings of SPIE, 2015, , .	0.8	1
78	Optical projection tomography via phase retrieval algorithms for hidden three dimensional imaging. , 2017, , .		1
79	High resolution volumetric imaging of primary and secondary tumor spheroids using multi-angle Light Sheet Fluorescence Microscopy (LSFM). , 2018, 2018, 866-869.		1
80	Multi-spectral imaging of tissue-specific fluorescence tomography data. , 2008, , .		1
81	<title>Effect of liquid nitrogen and formalin-based conservation in the in-vitro measurement of laser-induced fluorescence of peripheral vascular tissue</title>. , 1997, , .		0
82	<title>Use of the polarization vector in modeling tissue fluorescence: theoretical and experimental comparison</title>. , 1997, , .		0
83	<title>Photon statistics of the laserlike emission from polymeric scattering gain media with tissuelike optical properties</title>. , 2000, 4162, 30.		0
84	<title>Artificial neural networks analysis of laser-induced fluorescence spectra for characterization of peripheral vascular tissue</title>. , 2001, 4158, 199.		0
85	<title>Second harmonic generation and random lasing after two-photon excitation</title>. , 2001, , .		0
86	<title>Single and double photon excitation of dyes in highly scattering media of biological significance</title>. , 2002, , .		0
87	Optical characterization of small biopsy samples. , 2003, , .		0
88	LIF after excitation with ultrafast laser irradiation: the response of a single cell and the effect of its scattering environment. , 2003, , .		0
89	Radiotherapy dosimetry assessment with optical projection tomography. , 2007, 6629, 285.		0
90	Characterization of biopsy samples with optical computed tomography. , 2011, , .		0

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91	Optical projection tomography and light sheet microscopy for imaging in biological specimens a comparison study. , 2014, , .		0
92	Simulating cancer behavior based on in silico modeling and in vivo molecular imaging approaches: Prospects and limitations. , 2014, , .		0
93	Spatial frequencies selection for speckle grain reduction through semi-transparent media. Proceedings of SPIE, 2015, , .	0.8	0
94	Structured adaptive focusing through scattering media. , 2016, , .		0
95	Phase-retrieved optical projection tomography for 3D imaging through scattering layers. Proceedings of SPIE, 2016, , .	0.8	0
96	European Molecular Imaging Meeting 2020: Be Invited to Thessaloniki, Greece. Molecular Imaging and Biology, 2020, 22, 4-5.	1.3	0
97	Hidden projection tomography via phase retrieval algorithm. , 2021, , .		0
98	Photon statistics of the laser-like emission from polymeric scattering gain media with tissue-like optical properties. , 2000, , .		0
99	Radiation Therapy Dosimetry With Optical Computed Tomography and MR Scanning. , 2006, , .		0
100	In vivo FMT and Oxymetry measurements for combined imaging of tumor physiology and function. , 2008, , .		0
101	Spatial frequencies selection for speckle grain reduction through semi-transparent media. , 2015, , .		0
102	Projection tomography in the NIR-IIa window: challenges, advantages, and comparison with classical optical approach. , 2018, , .		0
103	Combined photoacoustic and fluorescence label-free microscopy for the ex-vivo investigation of ocular tissues. , 2019, , .		0
104	Phase Retrieval for Hidden Tomography Reconstruction. , 2020, , .		0
105	Adaptive light sheet microscopy for in vivo imaging of fluorescently labeled specimens. , 2021, , .		0