

Daniel Razansky

List of Publications by Year in descending order

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Version: 2024-02-01

398
papers

13,114
citations

23544

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33869

99
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419
docs citations

419
times ranked

7178
citing authors

#	ARTICLE	IF	CITATIONS
1	Segmentation and Tracking of Tumor Vasculature Using Volumetric Multispectral Optoacoustic Tomography. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 75-78.	0.5	0
2	Non-invasive longitudinal imaging of VEGF-induced microvascular alterations in skin wounds. <i>Theranostics</i> , 2022, 12, 558-573.	4.6	15
3	Dual-Mode Volumetric Optoacoustic and Contrast Enhanced Ultrasound Imaging With Spherical Matrix Arrays. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 846-856.	5.4	6
4	Non-invasive imaging of tau-targeted probe uptake by whole brain multi-spectral optoacoustic tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2137-2152.	3.3	23
5	Preoperative Mapping of Lymphatic Vessels by Multispectral Optoacoustic Tomography. <i>Lymphatic Research and Biology</i> , 2022, 20, 659-664.	0.5	3
6	Optoacoustic visualization of individual core-shell microparticles in vivo. , 2022, , .		0
7	Whole body imaging of mice in under 2 sec with single-sweep volumetric optoacoustic tomography (sSVOT). , 2022, , .		0
8	Learning-based enhancement of limited-view optoacoustic tomography based on image- and time-domain data. , 2022, , .		0
9	Compact optical link acquisition for high-speed optoacoustic imaging. , 2022, , .		1
10	Optoacoustic imaging with an air-coupled transducer using coaxially aligned focused illumination. <i>AIP Advances</i> , 2022, 12, .	0.6	2
11	Transcranial imaging with the optoacoustic memory effect. , 2022, , .		2
12	Noninvasive optoacoustic microangiography reveals dose and size dependency of radiation-induced deep tumor vasculature remodeling. <i>Neoplasia</i> , 2022, 26, 100778.	2.3	9
13	Broadband Model-Based Optoacoustic Mesoscopy Enables Deep-Tissue Imaging beyond the Acoustic Diffraction Limit. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	11
14	Rapid Volumetric Optoacoustic Tracking of Nanoparticle Kinetics across Murine Organs. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 172-178.	4.0	13
15	Unveiling bulk and surface radiation forces in a dielectric liquid. <i>Light: Science and Applications</i> , 2022, 11, 103.	7.7	17
16	Real-time 3D optoacoustic tracking of cell-sized magnetic microrobots circulating in the mouse brain vasculature. <i>Science Advances</i> , 2022, 8, eabm9132.	4.7	48
17	Guided Waves in the Skull. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1364, 411-422.	0.8	0
18	High-Order Pulse-Echo Ultrasound. <i>Physical Review Applied</i> , 2022, 17, .	1.5	1

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19	Evaluation of Transcranial Optoacoustic Imaging of a Human Brain Phantom. , 2022, , .		1
20	Optoacoustic Tracking and Magnetic Manipulation of Cell-Sized Microrobots in Mice. , 2022, , .		0
21	Multiscale optical and optoacoustic imaging of amyloid- β^2 deposits in mice. Nature Biomedical Engineering, 2022, 6, 1031-1044.	11.6	39
22	Multimodal Noninvasive Functional Neurophotonic Imaging of Murine Brainâ€™Wide Sensory Responses. Advanced Science, 2022, 9, .	5.6	8
23	Spherical Array System for High-Precision Transcranial Ultrasound Stimulation and Optoacoustic Imaging in Rodents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 107-115.	1.7	15
24	Development of concurrent magnetic resonance imaging and volumetric optoacoustic tomography: A phantom feasibility study. Journal of Biophotonics, 2021, 14, e202000293.	1.1	19
25	Deep Learning for Automatic Segmentation of Hybrid Optoacoustic Ultrasound (OPUS) Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 688-696.	1.7	32
26	Flash Scanning Volumetric Optoacoustic Tomography for High Resolution Wholeâ€™Body Tracking of Nanoagent Kinetics and Biodistribution. Laser and Photonics Reviews, 2021, 15, 2000484.	4.4	12
27	Multi-scale optoacoustic molecular imaging of brain diseases. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 4152-4170.	3.3	50
28	Noninvasive multimodal fluorescence and magnetic resonance imaging of whole-organ intervertebral discs. Biomedical Optics Express, 2021, 12, 3214.	1.5	5
29	Longâ€™Term Imaging of Wound Angiogenesis with Large Scale Optoacoustic Microscopy. Advanced Science, 2021, 8, 2004226.	5.6	30
30	Diffuse optical localization imaging for noninvasive deep brain microangiography in the NIR-II window. Optica, 2021, 8, 796.	4.8	9
31	Single-sweep volumetric optoacoustic tomography of whole mice. Photonics Research, 2021, 9, 899.	3.4	15
32	Optoacoustic imaging of the skin. Experimental Dermatology, 2021, 30, 1598-1609.	1.4	47
33	Croconaine-based nanoparticles enable efficient optoacoustic imaging of murine brain tumors. Photoacoustics, 2021, 22, 100263.	4.4	19
34	Deep learning of image- and time-domain data enhances the visibility of structures in optoacoustic tomography. Optics Letters, 2021, 46, 3029.	1.7	9
35	Siliconâ€™Photonics Point Sensor for Highâ€™Resolution Optoacoustic Imaging. Advanced Optical Materials, 2021, 9, 2100256.	3.6	9
36	Hemodynamic response to sensory stimulation in mice: Comparison between functional ultrasound and optoacoustic imaging. NeuroImage, 2021, 237, 118111.	2.1	12

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37	In situ characterization of microparticulate optoacoustic contrast agents in an intracardiac perfusion mouse model. <i>Optics Letters</i> , 2021, 46, 4350.	1.7	3
38	LightSpeed: A Compact, High-Speed Optical-Link-Based 3D Optoacoustic Imager. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 2023-2029.	5.4	9
39	In-vitro and in-vivo characterization of CRANAD-2 for multi-spectral optoacoustic tomography and fluorescence imaging of amyloid-beta deposits in Alzheimer mice. <i>Photoacoustics</i> , 2021, 23, 100285.	4.4	32
40	Rapid Volumetric Optoacoustic Tracking of Individual Microparticles <i><i>In Vivo</i></i> Enabled by a NIR-Absorbing Goldâ€“Carbon Shell. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48423-48432.	4.0	8
41	Ultrafast four-dimensional imaging of cardiac mechanical wave propagation with sparse optoacoustic sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	20
42	Arterial spin labeling demonstrates preserved regional cerebral blood flow in the P301L mouse model of tauopathy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, , 0271678X2110622.	2.4	8
43	Non-invasive optoacoustic imaging of tau in P301L mice. , 2021, , .		1
44	High-resolution fluorescence-guided transcranial ultrasound mapping in the live mouse brain. <i>Science Advances</i> , 2021, 7, eabi5464.	4.7	11
45	Optogenetic activation of striatal D1R and D2R cells differentially engages downstream connected areas beyond the basal ganglia. <i>Cell Reports</i> , 2021, 37, 110161.	2.9	15
46	PVDF spherical matrix array for high resolution cerebral optoacoustic micro-angiography of rodents. , 2021, , .		0
47	Spatial Compounding of Volumetric Data Enables Freehand Optoacoustic Angiography of Large-Scale Vascular Networks. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1160-1169.	5.4	10
48	Speed of sound ultrasound transmission tomography image reconstruction based on BÃ©zier curves. <i>Ultrasonics</i> , 2020, 103, 106097.	2.1	12
49	Cortexâ€“wide microcirculation mapping with ultrafast largeâ€“field multifocal illumination microscopy. <i>Journal of Biophotonics</i> , 2020, 13, e202000198.	1.1	7
50	Multifocal structured illumination optoacoustic microscopy. <i>Light: Science and Applications</i> , 2020, 9, 152.	7.7	15
51	Coregistration and Spatial Compounding of Optoacoustic Cardiac Images via Fourier Analysis of Four-Dimensional Data. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6254.	1.3	3
52	Noninvasive multiparametric characterization of mammary tumors with transmission-reflection optoacoustic ultrasound. <i>Neoplasia</i> , 2020, 22, 770-777.	2.3	19
53	Compressed Optoacoustic Sensing of Volumetric Cardiac Motion. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3250-3255.	5.4	5
54	Volumetric Optoacoustic Tomography Differentiates Myocardial Remodelling. <i>Molecular Imaging and Biology</i> , 2020, 22, 1235-1243.	1.3	5

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55	Monitoring of Stimulus Evoked Murine Somatosensory Cortex Hemodynamic Activity With Volumetric Multi-Spectral Optoacoustic Tomography. <i>Frontiers in Neuroscience</i> , 2020, 14, 536.	1.4	12
56	Model-Based Reconstruction of Large Three-Dimensional Optoacoustic Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2931-2940.	5.4	30
57	Deep tissue volumetric optoacoustic tracking of individual circulating tumor cells in an intracardially perfused mouse model. <i>Neoplasia</i> , 2020, 22, 441-446.	2.3	11
58	High-Speed Large-Field Multifocal Illumination Fluorescence Microscopy. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900070.	4.4	16
59	Validity of machine learning in biology and medicine increased through collaborations across fields of expertise. <i>Nature Machine Intelligence</i> , 2020, 2, 18-24.	8.3	43
60	Intravital optoacoustic and ultrasound bio-microscopy reveal radiation-inhibited skull angiogenesis. <i>Bone</i> , 2020, 133, 115251.	1.4	19
61	Discerning calvarian microvascular networks by combined optoacoustic ultrasound microscopy. <i>Photoacoustics</i> , 2020, 19, 100178.	4.4	13
62	Optical and Optoacoustic Imaging. <i>Recent Results in Cancer Research</i> , 2020, 216, 155-187.	1.8	3
63	Brilliant cresyl blue enhanced optoacoustic imaging enables non-destructive imaging of mammalian ovarian follicles for artificial reproduction. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200776.	1.5	3
64	Toward whole-brain in vivo optoacoustic angiography of rodents: modeling and experimental observations. <i>Biomedical Optics Express</i> , 2020, 11, 1477.	1.5	16
65	Detection of cerebral tauopathy in P301L mice using high-resolution large-field multifocal illumination fluorescence microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 4989.	1.5	22
66	In vivo optoacoustic monitoring of percutaneous laser ablation of tumors in a murine breast cancer model. <i>Optics Letters</i> , 2020, 45, 2006.	1.7	10
67	Rapid functional optoacoustic micro-angiography in a burst mode. <i>Optics Letters</i> , 2020, 45, 2522.	1.7	12
68	Widefield fluorescence localization microscopy for transcranial imaging of cortical perfusion with capillary resolution. <i>Optics Letters</i> , 2020, 45, 3470.	1.7	4
69	Visualization of microparticle flow in the mouse brain in an intracardiac perfusion model. , 2020, , .		0
70	Towards a compact, high-speed optical linkbased 3D optoacoustic imager. , 2020, , .		4
71	Tracking Strain-Specific Morphogenesis and Angiogenesis of Murine Calvaria with Large-Scale Optoacoustic and Ultrasound Microscopy. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 1032-1043.	3.1	4
72	Non-invasive determination of murine placental and foetal functional parameters with multispectral optoacoustic tomography. <i>Light: Science and Applications</i> , 2019, 8, 71.	7.7	32

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73	Listening to tissues with new light: recent technological advances in photoacoustic imaging. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 103001.	1.0	30
74	Self-Gated Respiratory Motion Rejection for Optoacoustic Tomography. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2737.	1.3	20
75	Optoacoustic image formation approaches—a clinical perspective. <i>Physics in Medicine and Biology</i> , 2019, 64, 18TR01.	1.6	26
76	Optoacoustic Calcium Imaging of Deep Brain Activity in an Intracardially Perfused Mouse Brain Model. <i>Photonics</i> , 2019, 6, 67.	0.9	9
77	Multimodal Precision Imaging of Pulmonary Nanoparticle Delivery in Mice: Dynamics of Application, Spatial Distribution, and Dosimetry. <i>Small</i> , 2019, 15, e1904112.	5.2	21
78	Acoustic Scattering Mediated Single Detector Optoacoustic Tomography. <i>Physical Review Letters</i> , 2019, 123, 174301.	2.9	22
79	Deep learning optoacoustic tomography with sparse data. <i>Nature Machine Intelligence</i> , 2019, 1, 453-460.	8.3	148
80	A genetically encoded near-infrared fluorescent calcium ion indicator. <i>Nature Methods</i> , 2019, 16, 171-174.	9.0	154
81	Uniform light delivery in volumetric optoacoustic tomography. <i>Journal of Biophotonics</i> , 2019, 12, e201800387.	1.1	12
82	Volumetric optoacoustic tomography enables non-invasive in vivo characterization of impaired heart function in hypoxic conditions. <i>Scientific Reports</i> , 2019, 9, 8369.	1.6	16
83	Optoacoustic properties of Doxorubicin — A pilot study. <i>PLoS ONE</i> , 2019, 14, e0217576.	1.1	3
84	Volumetric Optoacoustic Imaging Unveils High-Resolution Patterns of Acute and Cyclic Hypoxia in a Murine Model of Breast Cancer. <i>Cancer Research</i> , 2019, 79, 4767-4775.	0.4	47
85	Rapid volumetric optoacoustic imaging of neural dynamics across the mouse brain. <i>Nature Biomedical Engineering</i> , 2019, 3, 392-401.	11.6	168
86	Isolated Murine Brain Model for Large-Scale Optoacoustic Calcium Imaging. <i>Frontiers in Neuroscience</i> , 2019, 13, 290.	1.4	6
87	Transmission—reflection optoacoustic ultrasound (TROPUS) computed tomography of small animals. <i>Light: Science and Applications</i> , 2019, 8, 18.	7.7	71
88	Real-time Volumetric Assessment of the Human Carotid Artery: Handheld Multispectral Optoacoustic Tomography. <i>Radiology</i> , 2019, 291, 45-50.	3.6	66
89	High-Throughput Platform for Optoacoustic Probing of Genetically Encoded Calcium Ion Indicators. <i>IScience</i> , 2019, 22, 400-408.	1.9	5
90	Three-Dimensional Quantitative Co-Mapping of Pulmonary Morphology and Nanoparticle Distribution with Cellular Resolution in Nondissected Murine Lungs. <i>ACS Nano</i> , 2019, 13, 1029-1041.	7.3	42

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91	Maximum Entropy Based Non-Negative Optoacoustic Tomographic Image Reconstruction. IEEE Transactions on Biomedical Engineering, 2019, 66, 2604-2616.	2.5	28
92	Volumetric Multispectral Optoacoustic Tomography for 3-Dimensional Reconstruction of Skin Tumors: A Further Evaluation with Histopathologic Correlation. Journal of Investigative Dermatology, 2019, 139, 481-485.	0.3	23
93	Characterization of Brown Adipose Tissue in a Diabetic Mouse Model with Spiral Volumetric Optoacoustic Tomography. Molecular Imaging and Biology, 2019, 21, 620-625.	1.3	11
94	Four-dimensional optoacoustic monitoring of tissue heating with medium intensity focused ultrasound. Ultrasonics, 2019, 94, 117-123.	2.1	12
95	Concurrent fluorescence and volumetric optoacoustic tomography of nanoagent perfusion and bio-distribution in solid tumors. Biomedical Optics Express, 2019, 10, 5093.	1.5	19
96	Endocardial irrigated catheter for volumetric optoacoustic mapping of radio-frequency ablation lesion progression. Optics Letters, 2019, 44, 5808.	1.7	9
97	In vivo assessment of heart function under chronic hypoxic stress with volumetric optoacoustic tomography. , 2019, , .		0
98	Model-based optical resolution optoacoustic microscopy. , 2019, , .		0
99	Compressed optoacoustic data acquisition based on a cluster of acoustic scatterers. , 2019, , .		0
100	Multifocal structured illumination optoacoustic microscopy. , 2019, , .		1
101	Optoacoustic monitoring of RF ablation lesion progression. , 2019, , .		0
102	Analysis of the optoacoustic signals generated with a tone-burst of nanosecond duration pulses. , 2019, , .		0
103	Endocardial irrigated catheter for volumetric optoacoustic mapping of radio-frequency ablation. , 2019, , .		0
104	Tumor ablation and volumetric optoacoustic monitoring with a short-pulsed laser source. , 2019, , .		1
105	Dual-wavelength hybrid optoacoustic-ultrasound biomicroscopy for functional imaging of large-scale cerebral vascular networks. Journal of Biophotonics, 2018, 11, e201800057.	1.1	35
106	Virtual craniotomy for high-resolution optoacoustic brain microscopy. Scientific Reports, 2018, 8, 1459.	1.6	33
107	Dual-Modality Surface-Enhanced Resonance Raman Scattering and Multispectral Optoacoustic Tomography Nanoparticle Approach for Brain Tumor Delineation. Small, 2018, 14, e1800740.	5.2	78
108	Trackerless panoramic optoacoustic imaging: a first feasibility evaluation. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 703-711.	1.7	3

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109	Calcium Sensor for Photoacoustic Imaging. Journal of the American Chemical Society, 2018, 140, 2718-2721.	6.6	109
110	Looking at the Skull in a New Light: Rayleigh-Lamb Waves in Cranial Bone. , 2018, , .		4
111	Ultrafast Volumetric Optoacoustic Imaging of Whole Isolated Beating Mouse Heart. Scientific Reports, 2018, 8, 14132.	1.6	16
112	Imaging of blood flow and oxygen state with a multi-segment optoacoustic ultrasound array. Photoacoustics, 2018, 10, 48-53.	4.4	43
113	Optoacoustic signal excitation with a tone-burst of short pulses. Photoacoustics, 2018, 11, 1-5.	4.4	7
114	Performance of optoacoustic and fluorescence imaging in detecting deep-seated fluorescent agents. Biomedical Optics Express, 2018, 9, 2229.	1.5	41
115	Integrated catheter for simultaneous radio frequency ablation and optoacoustic monitoring of lesion progression. Optics Letters, 2018, 43, 1886.	1.7	23
116	Observation of Guided Acoustic Waves in a Human Skull. Ultrasound in Medicine and Biology, 2018, 44, 2388-2392.	0.7	32
117	Noninvasive Anatomical and Functional Imaging of Orthotopic Glioblastoma Development and Therapy using Multispectral Optoacoustic Tomography. Translational Oncology, 2018, 11, 1251-1258.	1.7	24
118	Optoacoustic imaging at kilohertz volumetric frame rates. Optica, 2018, 5, 857.	4.8	57
119	Localization optoacoustic tomography. Light: Science and Applications, 2018, 7, 18004-18004.	7.7	59
120	A new catheter design for combined radiofrequency ablation and optoacoustic treatment monitoring using copper-coated light-guides. , 2018, , .		3
121	Four-dimensional optoacoustic temperature mapping in laser-induced thermotherapy. , 2018, , .		1
122	Monitoring of tissue heating with medium intensity focused ultrasound via four dimensional optoacoustic tomography. , 2018, , .		1
123	Non-invasive Photoacoustic 3D Imaging of Non-Melanoma Skin Cancers in Asian Population. , 2018, , .		0
124	Quantitative Image Correction Using Semi- and Fully-automatic Segmentation of Hybrid Optoacoustic and Ultrasound Images. , 2018, , .		0
125	Real-time volumetric microscopy of deep tissues with optoacoustic micro-tomography (OMT). , 2018, , .		0
126	Visualizing tumor progression with spiral volumetric optoacoustic tomography (SVOT). , 2018, , .		0

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127	High-frame-rate imaging of biological samples with optoacoustic micro-tomography. , 2018, , .		0
128	Breaking the acoustic diffraction barrier with localization optoacoustic tomography. , 2018, , .		0
129	Hybrid system for in vivo real-time planar fluorescence and volumetric optoacoustic imaging. , 2018, , .		1
130	Multifocal structured illumination fluorescence microscopy with large field-of-view and high spatio-temporal resolution. , 2018, , .		1
131	Introduction to the Biophotonics Congress 2018 feature issue. Biomedical Optics Express, 2018, 9, 6398.	1.5	0
132	Advanced optoacoustic methods for multiscale imaging of in vivo dynamics. Chemical Society Reviews, 2017, 46, 2158-2198.	18.7	251
133	Hybrid ultrasound and dual-wavelength optoacoustic biomicroscopy for functional neuroimaging. , 2017, , .		1
134	Light-sheet microscopy for quantitative ovarian folliculometry. Proceedings of SPIE, 2017, , .	0.8	0
135	Constrained Inversion and Spectral Unmixing in Multispectral Optoacoustic Tomography. IEEE Transactions on Medical Imaging, 2017, 36, 1676-1685.	5.4	27
136	Efficient 3-D Model-Based Reconstruction Scheme for Arbitrary Optoacoustic Acquisition Geometries. IEEE Transactions on Medical Imaging, 2017, 36, 1858-1867.	5.4	55
137	Spiral volumetric optoacoustic tomography visualizes multi-scale dynamics in mice. Light: Science and Applications, 2017, 6, e16247-e16247.	7.7	88
138	Combined Pulse-Echo Ultrasound and Multispectral Optoacoustic Tomography With a Multi-Segment Detector Array. IEEE Transactions on Medical Imaging, 2017, 36, 2129-2137.	5.4	48
139	Weighted synthetic aperture focusing for optoacoustic microscopy with scanning illumination and detection. , 2017, , .		0
140	Hybrid-array-based optoacoustic and ultrasound (OPUS) imaging of biological tissues. Applied Physics Letters, 2017, 110, .	1.5	40
141	Non-invasive volumetric optoacoustic imaging of cardiac cycles in acute myocardial infarction model in real-time. Proceedings of SPIE, 2017, , .	0.8	0
142	Broadband optoacoustic characterization of cMUT and PZT transducer directivity in receive mode. Proceedings of SPIE, 2017, , .	0.8	4
143	Electrolytic conductivity-related radiofrequency heating of aqueous suspensions of nanoparticles for biomedicine. Physical Chemistry Chemical Physics, 2017, 19, 11510-11517.	1.3	10
144	20 frames per second model-based reconstruction in cross-sectional optoacoustic tomography. Proceedings of SPIE, 2017, , .	0.8	0

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145	Prediction and near-field observation of skull-guided acoustic waves. <i>Physics in Medicine and Biology</i> , 2017, 62, 4728-4740.	1.6	14
146	Observation of skull-guided acoustic waves in a water-immersed murine skull using optoacoustic excitation. , 2017, , .		1
147	Accounting for speed of sound variations in volumetric hand-held optoacoustic imaging. <i>Frontiers of Optoelectronics</i> , 2017, 10, 280-286.	1.9	16
148	Volumetric Optoacoustic Temperature Mapping in Photothermal Therapy. <i>Scientific Reports</i> , 2017, 7, 9695.	1.6	62
149	Optoacoustic micro-tomography at 100 volumes per second. <i>Scientific Reports</i> , 2017, 7, 6850.	1.6	50
150	Real-time three-dimensional temperature mapping in photothermal therapy with optoacoustic tomography. , 2017, , .		0
151	Structural and functional small animal imaging using hybrid-focus optoacoustic biomicroscopy. , 2017, , .		0
152	Pushing the Boundaries of Neuroimaging with Optoacoustics. <i>Neuron</i> , 2017, 96, 966-988.	3.8	54
153	Noninvasive real-time characterization of non-melanoma skin cancers with handheld optoacoustic probes. <i>Photoacoustics</i> , 2017, 7, 20-26.	4.4	80
154	Imaging multi-scale dynamics in vivo with spiral volumetric optoacoustic tomography. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
155	Non-contact monitoring during laser surgery by measuring the incision depth with air-coupled transducers. , 2017, , .		1
156	Structural and functional 3D mapping of skin tumours with non-invasive multispectral optoacoustic tomography. <i>Skin Research and Technology</i> , 2017, 23, 221-226.	0.8	44
157	Characterization of Cardiac Dynamics in an Acute Myocardial Infarction Model by Four-Dimensional Optoacoustic and Magnetic Resonance Imaging. <i>Theranostics</i> , 2017, 7, 4470-4479.	4.6	26
158	Universal weighted synthetic aperture focusing technique (W-SAFT) for scanning optoacoustic microscopy. <i>Optica</i> , 2017, 4, 770.	4.8	18
159	Dynamic particle enhancement in limited-view optoacoustic tomography. <i>Optics Letters</i> , 2017, 42, 827.	1.7	25
160	Fiber interferometer for hybrid optical and optoacoustic intravital microscopy. <i>Optica</i> , 2017, 4, 1180.	4.8	40
161	Hybrid system for in vivo epifluorescence and 4D optoacoustic imaging. <i>Optics Letters</i> , 2017, 42, 4577.	1.7	32
162	Three-dimensional optoacoustic reconstruction using fast sparse representation. <i>Optics Letters</i> , 2017, 42, 979.	1.7	37

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163	Optical Imaging. , 2017, , 403-490.		1
164	Non-negative constrained inversion approaches for unmixing chromophores in multispectral optoacoustic tomography. , 2017, , .		1
165	Functional optoacoustic neuro-tomography of calcium fluxes in adult zebrafish brain in vivo. Optics Letters, 2017, 42, 959.	1.7	18
166	Volumetric optoacoustic imaging of large-scale calcium activity in adult zebrafish brain in vivo. , 2017, , .		0
167	Non-invasive in vivo functional optoacoustic calcium imaging of neural activity in GCaMP6f-expressing mice. , 2017, , .		0
168	Improving visibility in limited-view scenarios with dynamic particle-enhanced optoacoustic tomography. , 2017, , .		0
169	Photoacoustics: a historical review. Advances in Optics and Photonics, 2016, 8, 586.	12.1	189
170	In vivo whole-body optoacoustic scanner with real-time volumetric imaging capacity. Optica, 2016, 3, 1153.	4.8	57
171	Volumetric hand-held optoacoustic angiography as a tool for real-time screening of dense breast. Journal of Biophotonics, 2016, 9, 253-259.	1.1	61
172	Volumetric optoacoustic imaging feedback during endovenous laser therapy an <i>ex vivo</i> investigation. Journal of Biophotonics, 2016, 9, 934-941.	1.1	20
173	Controlling the light distribution through turbid media with wavefront shaping based on volumetric optoacoustic feedback. Proceedings of SPIE, 2016, , .	0.8	1
174	Advancing ovarian folliculometry with selective plane illumination microscopy. Scientific Reports, 2016, 6, 38057.	1.6	2
175	On the link between the speckle free nature of optoacoustics and visibility of structures in limited-view tomography. Photoacoustics, 2016, 4, 133-140.	4.4	87
176	Functional optoacoustic neuro-tomography for scalable whole-brain monitoring of calcium indicators. Light: Science and Applications, 2016, 5, e16201-e16201.	7.7	122
177	Non-contact optoacoustic imaging by raster scanning a piezoelectric air-coupled transducer. Proceedings of SPIE, 2016, , .	0.8	1
178	Visual Quality Enhancement in Optoacoustic Tomography Using Active Contour Segmentation Priors. IEEE Transactions on Medical Imaging, 2016, 35, 2209-2217.	5.4	37
179	Special issue introduction: Photoacoustic microscopy. Photoacoustics, 2016, 4, 81-82.	4.4	4
180	Correlation between volumetric oxygenation responses and electrophysiology identifies deep thalamocortical activity during epileptic seizures. Neurophotonics, 2016, 4, 011007.	1.7	54

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181	Effects of the murine skull in optoacoustic brain microscopy. <i>Journal of Biophotonics</i> , 2016, 9, 117-123.	1.1	43
182	Optoacoustic characterization of broadband directivity patterns of capacitive micromachined ultrasonic transducers. <i>Journal of Biomedical Optics</i> , 2016, 22, 041005.	1.4	15
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