

Daniel Razansky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

307
papers

9,353
citations

50
h-index

85
g-index

419
ext. papers

11,692
ext. citations

6.6
avg, IF

6.77
L-index

#	Paper	IF	Citations
307	Non-invasive longitudinal imaging of VEGF-induced microvascular alterations in skin wounds.. <i>Theranostics</i> , 2022 , 12, 558-573	12.1	3
306	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 , 1	8.8	2
305	Segmentation and Tracking of Tumor Vasculature Using Volumetric Multispectral Optoacoustic Tomography. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 75-78	0.4	
304	Optoacoustic imaging with an air-coupled transducer using coaxially aligned focused illumination. <i>AIP Advances</i> , 2022 , 12, 035043	1.5	1
303	Noninvasive optoacoustic microangiography reveals dose and size dependency of radiation-induced deep tumor vasculature remodeling.. <i>Neoplasia</i> , 2022 , 26, 100778	6.4	0
302	Unveiling bulk and surface radiation forces in a dielectric liquid.. <i>Light: Science and Applications</i> , 2022 , 11, 103	16.7	3
301	Real-time 3D optoacoustic tracking of cell-sized magnetic microrobots circulating in the mouse brain vasculature.. <i>Science Advances</i> , 2022 , 8, eabm9132	14.3	7
300	Guided Waves in the Skull.. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 1364, 411-422	3.6	
299	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,	11.5	2
298	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 , 271678X211062274	7.3	3
297	Rapid Volumetric Optoacoustic Tracking of Individual Microparticles Enabled by a NIR-Absorbing Gold-Carbon Shell. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48423-48432	9.5	0
296	Noninvasive multimodal fluorescence and magnetic resonance imaging of whole-organ intervertebral discs. <i>Biomedical Optics Express</i> , 2021 , 12, 3214-3227	3.5	1
295	Long-Term Imaging of Wound Angiogenesis with Large Scale Optoacoustic Microscopy. <i>Advanced Science</i> , 2021 , 8, 2004226	13.6	9
294	Diffuse optical localization imaging for noninvasive deep brain microangiography in the NIR-II window. <i>Optica</i> , 2021 , 8, 796	8.6	2
293	Single-sweep volumetric optoacoustic tomography of whole mice. <i>Photonics Research</i> , 2021 , 9, 899	6	2
292	Optoacoustic imaging of the skin. <i>Experimental Dermatology</i> , 2021 , 30, 1598-1609	4	12
291	Croconaine-based nanoparticles enable efficient optoacoustic imaging of murine brain tumors. <i>Photoacoustics</i> , 2021 , 22, 100263	9	4

290	Deep learning of image- and time-domain data enhances the visibility of structures in optoacoustic tomography. <i>Optics Letters</i> , 2021 , 46, 3029-3032	3	2
289	Spherical Array System for High-Precision Transcranial Ultrasound Stimulation and Optoacoustic Imaging in Rodents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 1073-115	3.2	6
288	Development of concurrent magnetic resonance imaging and volumetric optoacoustic tomography: A phantom feasibility study. <i>Journal of Biophotonics</i> , 2021 , 14, e202000293	3.1	6
287	Deep Learning for Automatic Segmentation of Hybrid Optoacoustic Ultrasound (OPUS) Images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 688-696	3.2	14
286	Flash Scanning Volumetric Optoacoustic Tomography for High Resolution Whole-Body Tracking of Nanoagent Kinetics and Biodistribution. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000484	8.3	7
285	Multi-scale optoacoustic molecular imaging of brain diseases. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 48, 4152-4170	8.8	18
284	Silicon-Photonics Point Sensor for High-Resolution Optoacoustic Imaging. <i>Advanced Optical Materials</i> , 2021 , 9, 2100256	8.1	0
283	Hemodynamic response to sensory stimulation in mice: Comparison between functional ultrasound and optoacoustic imaging. <i>NeuroImage</i> , 2021 , 237, 118111	7.9	1
282	In situ characterization of microparticulate optoacoustic contrast agents in an intracardiac perfusion mouse model. <i>Optics Letters</i> , 2021 , 46, 4350-4353	3	1
281	LightSpeed: A Compact, High-Speed Optical-Link-Based 3D Optoacoustic Imager. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 2023-2029	11.7	2
280	and 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	9	9
279	High-resolution fluorescence-guided transcranial ultrasound mapping in the live mouse brain. <i>Science Advances</i> , 2021 , 7, eabi5464	14.3	0
278	Optogenetic activation of striatal D1R and D2R cells differentially engages downstream connected areas beyond the basal ganglia.. <i>Cell Reports</i> , 2021 , 37, 110161	10.6	2
277	Coregistration and Spatial Compounding of Optoacoustic Cardiac Images via Fourier Analysis of Four-Dimensional Data. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6254	2.6	1
276	Noninvasive multiparametric characterization of mammary tumors with transmission-reflection optoacoustic ultrasound. <i>Neoplasia</i> , 2020 , 22, 770-777	6.4	2
275	Compressed Optoacoustic Sensing of Volumetric Cardiac Motion. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3250-3255	11.7	3
274	Volumetric Optoacoustic Tomography Differentiates Myocardial Remodelling. <i>Molecular Imaging and Biology</i> , 2020 , 22, 1235-1243	3.8	2
273	Monitoring of Stimulus Evoked Murine Somatosensory Cortex Hemodynamic Activity With Volumetric Multi-Spectral Optoacoustic Tomography. <i>Frontiers in Neuroscience</i> , 2020 , 14, 536	5.1	7

272	Model-Based Reconstruction of Large Three-Dimensional Optoacoustic Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2931-2940	11.7	10
271	Deep tissue volumetric optoacoustic tracking of individual circulating tumor cells in an intracardially perfused mouse model. <i>Neoplasia</i> , 2020 , 22, 441-446	6.4	6
270	High-Speed Large-Field Multifocal Illumination Fluorescence Microscopy. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900070	8.3	10
269	Validity of machine learning in biology and medicine increased through collaborations across fields of expertise. <i>Nature Machine Intelligence</i> , 2020 , 2, 18-24	22.5	23
268	Intravital optoacoustic and ultrasound bio-microscopy reveal radiation-inhibited skull angiogenesis. <i>Bone</i> , 2020 , 133, 115251	4.7	9
267	Discerning calvarian microvascular networks by combined optoacoustic ultrasound microscopy. <i>Photoacoustics</i> , 2020 , 19, 100178	9	5
266	Toward whole-brain optoacoustic angiography of rodents: modeling and experimental observations. <i>Biomedical Optics Express</i> , 2020 , 11, 1477-1488	3.5	5
265	Detection of cerebral tauopathy in P301L mice using high-resolution large-field multifocal illumination fluorescence microscopy. <i>Biomedical Optics Express</i> , 2020 , 11, 4989-5002	3.5	7
264	In vivo optoacoustic monitoring of percutaneous laser ablation of tumors in a murine breast cancer model. <i>Optics Letters</i> , 2020 , 45, 2006-2009	3	6
263	Rapid functional optoacoustic micro-angiography in a burst mode. <i>Optics Letters</i> , 2020 , 45, 2522-2525	3	6
262	Widefield fluorescence localization microscopy for transcranial imaging of cortical perfusion with capillary resolution. <i>Optics Letters</i> , 2020 , 45, 3470-3473	3	1
261	Towards a compact, high-speed optical linkbased 3D optoacoustic imager 2020 ,		1
260	Optical and Optoacoustic Imaging. <i>Recent Results in Cancer Research</i> , 2020 , 216, 155-187	1.5	2
259	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	4.1	2
258	Speed of sound ultrasound transmission tomography image reconstruction based on Bzier curves. <i>Ultrasonics</i> , 2020 , 103, 106097	3.5	4
257	Cortex-wide microcirculation mapping with ultrafast large-field multifocal illumination microscopy. <i>Journal of Biophotonics</i> , 2020 , 13, e202000198	3.1	1
256	Multifocal structured illumination optoacoustic microscopy. <i>Light: Science and Applications</i> , 2020 , 9, 152	16.7	7
255	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	11.7	5

254	Acoustic Scattering Mediated Single Detector Optoacoustic Tomography. <i>Physical Review Letters</i> , 2019 , 123, 174301	7.4	13
253	Deep learning optoacoustic tomography with sparse data. <i>Nature Machine Intelligence</i> , 2019 , 1, 453-460	22.5	85
252	A genetically encoded near-infrared fluorescent calcium ion indicator. <i>Nature Methods</i> , 2019 , 16, 171-174	11.6	96
251	Uniform light delivery in volumetric optoacoustic tomography. <i>Journal of Biophotonics</i> , 2019 , 12, e201800387	3.7	8
250	Volumetric optoacoustic tomography enables non-invasive in vivo characterization of impaired heart function in hypoxic conditions. <i>Scientific Reports</i> , 2019 , 9, 8369	4.9	8
249	Optoacoustic properties of Doxorubicin - A pilot study. <i>PLoS ONE</i> , 2019 , 14, e0217576	3.7	1
248	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	10.1	26
247	Rapid volumetric optoacoustic imaging of neural dynamics across the mouse brain. <i>Nature Biomedical Engineering</i> , 2019 , 3, 392-401	19	91
246	Isolated Murine Brain Model for Large-Scale Optoacoustic Calcium Imaging. <i>Frontiers in Neuroscience</i> , 2019 , 13, 290	5.1	5
245	Transmission-reflection optoacoustic ultrasound (TROPUS) computed tomography of small animals. <i>Light: Science and Applications</i> , 2019 , 8, 18	16.7	36
244	Real-time Volumetric Assessment of the Human Carotid Artery: Handheld Multispectral Optoacoustic Tomography. <i>Radiology</i> , 2019 , 291, 45-50	20.5	33
243	Non-invasive determination of murine placental and foetal functional parameters with multispectral optoacoustic tomography. <i>Light: Science and Applications</i> , 2019 , 8, 71	16.7	13
242	Listening to tissues with new light: recent technological advances in photoacoustic imaging. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21,	1.7	15
241	Self-Gated Respiratory Motion Rejection for Optoacoustic Tomography. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2737	2.6	10
240	Optoacoustic image formation approaches-a clinical perspective. <i>Physics in Medicine and Biology</i> , 2019 , 64, 18TR01	3.8	14
239	Optoacoustic Calcium Imaging of Deep Brain Activity in an Intracardially Perfused Mouse Brain Model. <i>Photonics</i> , 2019 , 6, 67	2.2	5
238	Multimodal Precision Imaging of Pulmonary Nanoparticle Delivery in Mice: Dynamics of Application, Spatial Distribution, and Dosimetry. <i>Small</i> , 2019 , 15, e1904112	11	15
237	Concurrent fluorescence and volumetric optoacoustic tomography of nanoagent perfusion and bio-distribution in solid tumors. <i>Biomedical Optics Express</i> , 2019 , 10, 5093-5102	3.5	10

236	Endocardial irrigated catheter for volumetric optoacoustic mapping of radio-frequency ablation lesion progression. <i>Optics Letters</i> , 2019 , 44, 5808-5811	3	6
235	High-Throughput Platform for Optoacoustic Probing of Genetically Encoded Calcium Ion Indicators. <i>IScience</i> , 2019 , 22, 400-408	6.1	4
234	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	16.7	28
233	Maximum Entropy Based Non-Negative Optoacoustic Tomographic Image Reconstruction. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2604-2616	5	18
232	Volumetric Multispectral Optoacoustic Tomography for 3-Dimensional Reconstruction of Skin Tumors: A Further Evaluation with Histopathologic Correlation. <i>Journal of Investigative Dermatology</i> , 2019 , 139, 481-485	4.3	14
231	Characterization of Brown Adipose Tissue in a Diabetic Mouse Model with Spiral Volumetric Optoacoustic Tomography. <i>Molecular Imaging and Biology</i> , 2019 , 21, 620-625	3.8	9
230	Four-dimensional optoacoustic monitoring of tissue heating with medium intensity focused ultrasound. <i>Ultrasonics</i> , 2019 , 94, 117-123	3.5	9
229	Dual-wavelength hybrid optoacoustic-ultrasound bi microscopy for functional imaging of large-scale cerebral vascular networks. <i>Journal of Biophotonics</i> , 2018 , 11, e201800057	3.1	25
228	Virtual craniotomy for high-resolution optoacoustic brain microscopy. <i>Scientific Reports</i> , 2018 , 8, 1459	4.9	26
227	Dual-Modality Surface-Enhanced Resonance Raman Scattering and Multispectral Optoacoustic Tomography Nanoparticle Approach for Brain Tumor Delineation. <i>Small</i> , 2018 , 14, e1800740	11	57
226	Trackerless panoramic optoacoustic imaging: a first feasibility evaluation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 703-711	3.9	3
225	Calcium Sensor for Photoacoustic Imaging. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2718-2721	6.4	86
224	Performance of optoacoustic and fluorescence imaging in detecting deep-seated fluorescent agents. <i>Biomedical Optics Express</i> , 2018 , 9, 2229-2239	3.5	28
223	Integrated catheter for simultaneous radio frequency ablation and optoacoustic monitoring of lesion progression. <i>Optics Letters</i> , 2018 , 43, 1886-1889	3	17
222	Observation of Guided Acoustic Waves in a Human Skull. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 2388-2392	3.5	16
221	Noninvasive Anatomical and Functional Imaging of Orthotopic Glioblastoma Development and Therapy using Multispectral Optoacoustic Tomography. <i>Translational Oncology</i> , 2018 , 11, 1251-1258	4.9	16
220	Optoacoustic imaging at kilohertz volumetric frame rates. <i>Optica</i> , 2018 , 5, 857-863	8.6	37
219	A new catheter design for combined radiofrequency ablation and optoacoustic treatment monitoring using copper-coated light-guides 2018 ,		2

218	Four-dimensional optoacoustic temperature mapping in laser-induced thermotherapy 2018 ,		1
217	Monitoring of tissue heating with medium intensity focused ultrasound via four dimensional optoacoustic tomography 2018 ,		1
216	Hybrid system for in vivo real-time planar fluorescence and volumetric optoacoustic imaging 2018 ,		1
215	Multifocal structured illumination fluorescence microscopy with large field-of-view and high spatio-temporal resolution 2018 ,		1
214	Introduction to the Biophotonics Congress 2018 feature issue. <i>Biomedical Optics Express</i> , 2018 , 9, 6398-6399		39
213	Localization optoacoustic tomography. <i>Light: Science and Applications</i> , 2018 , 7, 18004	16.7	38
212	Looking at the Skull in a New Light: Rayleigh-Lamb Waves in Cranial Bone 2018 ,		2
211	Ultrafast Volumetric Optoacoustic Imaging of Whole Isolated Beating Mouse Heart. <i>Scientific Reports</i> , 2018 , 8, 14132	4.9	10
210	Imaging of blood flow and oxygen state with a multi-segment optoacoustic ultrasound array. <i>Photoacoustics</i> , 2018 , 10, 48-53	9	24
209	Optoacoustic signal excitation with a tone-burst of short pulses. <i>Photoacoustics</i> , 2018 , 11, 1-5	9	6
208	Advanced optoacoustic methods for multiscale imaging of in vivo dynamics. <i>Chemical Society Reviews</i> , 2017 , 46, 2158-2198	58.5	168
207	Hybrid ultrasound and dual-wavelength optoacoustic biomicroscopy for functional neuroimaging 2017 ,		1
206	Constrained Inversion and Spectral Unmixing in Multispectral Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1676-1685	11.7	20
205	Efficient 3-D Model-Based Reconstruction Scheme for Arbitrary Optoacoustic Acquisition Geometries. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1858-1867	11.7	37
204	Spiral volumetric optoacoustic tomography visualizes multi-scale dynamics in mice. <i>Light: Science and Applications</i> , 2017 , 6, e16247	16.7	62
203	Combined Pulse-Echo Ultrasound and Multispectral Optoacoustic Tomography With a Multi-Segment Detector Array. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 2129-2137	11.7	30
202	Hybrid-array-based optoacoustic and ultrasound (OPUS) imaging of biological tissues. <i>Applied Physics Letters</i> , 2017 , 110, 203703	3.4	26
201	Broadband optoacoustic characterization of cMUT and PZT transducer directivity in receive mode 2017 ,		4

200	Electrolytic conductivity-related radiofrequency heating of aqueous suspensions of nanoparticles for biomedicine. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11510-11517	3.6	8
199	Prediction and near-field observation of skull-guided acoustic waves. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4728-4740	3.8	12
198	Optoacoustic characterization of broadband directivity patterns of capacitive micromachined ultrasonic transducers. <i>Journal of Biomedical Optics</i> , 2017 , 22, 41005	3.5	11
197	Accounting for speed of sound variations in volumetric hand-held optoacoustic imaging. <i>Frontiers of Optoelectronics</i> , 2017 , 10, 280-286	2.8	9
196	Volumetric Optoacoustic Temperature Mapping in Photothermal Therapy. <i>Scientific Reports</i> , 2017 , 7, 9695	4.9	40
195	Optoacoustic micro-tomography at 100 volumes per second. <i>Scientific Reports</i> , 2017 , 7, 6850	4.9	38
194	Pushing the Boundaries of Neuroimaging with Optoacoustics. <i>Neuron</i> , 2017 , 96, 966-988	13.9	37
193	Noninvasive real-time characterization of non-melanoma skin cancers with handheld optoacoustic probes. <i>Photoacoustics</i> , 2017 , 7, 20-26	9	51
192	Non-contact monitoring during laser surgery by measuring the incision depth with air-coupled transducers 2017 ,		1
191	Structural and functional 3D mapping of skin tumours with non-invasive multispectral optoacoustic tomography. <i>Skin Research and Technology</i> , 2017 , 23, 221-226	1.9	31
190	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	12.1	18
189	Universal weighted synthetic aperture focusing technique (W-SAFT) for scanning optoacoustic microscopy. <i>Optica</i> , 2017 , 4, 770	8.6	16
188	Dynamic particle enhancement in limited-view optoacoustic tomography. <i>Optics Letters</i> , 2017 , 42, 827-830		16
187	Fiber interferometer for hybrid optical and optoacoustic intravital microscopy. <i>Optica</i> , 2017 , 4, 1180	8.6	27
186	Hybrid system for in vivo epifluorescence and 4D optoacoustic imaging. <i>Optics Letters</i> , 2017 , 42, 4577-4580		22
185	Three-dimensional optoacoustic reconstruction using fast sparse representation. <i>Optics Letters</i> , 2017 , 42, 979-982	3	28
184	Non-negative constrained inversion approaches for unmixing chromophores in multispectral optoacoustic tomography 2017 ,		1
183	Functional optoacoustic neuro-tomography of calcium fluxes in adult zebrafish brain in vivo. <i>Optics Letters</i> , 2017 , 42, 959-962	3	14

182	Optical Imaging 2017 , 403-490		1
181	Bestimmung der Herzfunktion in einem Mausmodell zum Myokardinfarkt mittels optoakustischer Bildgebung. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2017 , 189, S1-S124	2.3	
180	Correlation between volumetric oxygenation responses and electrophysiology identifies deep thalamocortical activity during epileptic seizures. <i>Neurophotonics</i> , 2017 , 4, 011007	3.9	41
179	Simultaneous visualization of tumour oxygenation, neovascularization and contrast agent perfusion by real-time three-dimensional optoacoustic tomography. <i>European Radiology</i> , 2016 , 26, 1843-51	8.51	47
178	Noncontact monitoring of incision depth in laser surgery with air-coupled ultrasound transducers. <i>Optics Letters</i> , 2016 , 41, 2704-7	3	15
177	Imaging the distribution of photoswitchable probes with temporally-unmixed multispectral optoacoustic tomography 2016 ,		1
176	Improving Optoacoustic Image Quality via Geometric Pixel Super-Resolution Approach. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 812-8	11.7	14
175	Real-Time Model-Based Inversion in Cross-Sectional Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1883-91	11.7	34
174	Experimental evaluation of cMUT and PZT transducers in receive only mode for photoacoustic imaging 2016 ,		7
173	Broadband acoustic properties of a murine skull. <i>Physics in Medicine and Biology</i> , 2016 , 61, 1932-46	3.8	25
172	High-Throughput Sparsity-Based Inversion Scheme for Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 674-84	11.7	7
171	Structural and Functional Analysis of Intact Hair Follicles and Pilosebaceous Units by Volumetric Multispectral Optoacoustic Tomography. <i>Journal of Investigative Dermatology</i> , 2016 , 136, 753-761	4.3	32
170	Light fluence estimation by imaging photoswitchable probes with temporally unmixed multispectral optoacoustic tomography 2016 ,		1
169	Sphingomyelin Synthase 1 Is Essential for Male Fertility in Mice. <i>PLoS ONE</i> , 2016 , 11, e0164298	3.7	13
168	High Speed Model-based Inversion in Cross-sectional Optoacoustic Tomography 2016 ,		1
167	Photoacoustics: a historical review. <i>Advances in Optics and Photonics</i> , 2016 , 8, 586	16.7	116
166	In vivo whole-body optoacoustic scanner with real-time volumetric imaging capacity. <i>Optica</i> , 2016 , 3, 1153	8.6	35
165	Volumetric hand-held optoacoustic angiography as a tool for real-time screening of dense breast. <i>Journal of Biophotonics</i> , 2016 , 9, 253-9	3.1	50

164	Volumetric optoacoustic imaging feedback during endovenous laser therapy - an ex vivo investigation. <i>Journal of Biophotonics</i> , 2016 , 9, 934-41	3.1	16
163	Advancing ovarian folliculometry with selective plane illumination microscopy. <i>Scientific Reports</i> , 2016 , 6, 38057	4.9	2
162	On the link between the speckle free nature of optoacoustics and visibility of structures in limited-view tomography. <i>Photoacoustics</i> , 2016 , 4, 133-140	9	57
161	Functional optoacoustic neuro-tomography for scalable whole-brain monitoring of calcium indicators. <i>Light: Science and Applications</i> , 2016 , 5, e16201	16.7	90
160	Non-contact optoacoustic imaging by raster scanning a piezoelectric air-coupled transducer 2016 ,		1
159	Visual Quality Enhancement in Optoacoustic Tomography Using Active Contour Segmentation Priors. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2209-2217	11.7	28
158	Effects of the murine skull in optoacoustic brain microscopy. <i>Journal of Biophotonics</i> , 2016 , 9, 117-23	3.1	31
157	Violacein as a genetically-controlled, enzymatically amplified and photobleaching-resistant chromophore for optoacoustic bacterial imaging. <i>Scientific Reports</i> , 2015 , 5, 11048	4.9	24
156	Short and long-term phototoxicity in cells expressing genetic reporters under nanosecond laser exposure. <i>Biomaterials</i> , 2015 , 69, 38-44	15.6	7
155	Extending biological imaging to the fifth dimension: evolution of volumetric small animal multispectral optoacoustic tomography. <i>IEEE Pulse</i> , 2015 , 6, 47-53	0.7	13
154	Noninvasive real-time visualization of multiple cerebral hemodynamic parameters in whole mouse brains using five-dimensional optoacoustic tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 531-5	7.3	55
153	Three-dimensional optoacoustic monitoring of lesion formation in real time during radiofrequency catheter ablation. <i>Journal of Cardiovascular Electrophysiology</i> , 2015 , 26, 339-45	2.7	39
152	Shaping volumetric light distribution through turbid media using real-time three-dimensional opto-acoustic feedback. <i>Optics Letters</i> , 2015 , 40, 443-6	3	11
151	Hybrid optoacoustic tomography and pulse-echo ultrasonography using concave arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 1651-61	3.2	43
150	Efficient non-negative constrained model-based inversion in optoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2015 , 60, 6733-50	3.8	40
149	Wavelength-dependent optoacoustic imaging probes for NMDA receptor visualisation. <i>Chemical Communications</i> , 2015 , 51, 15149-52	5.8	9
148	Volumetric tracking of migratory melanophores during zebrafish development by optoacoustic microscopy. <i>Mechanisms of Development</i> , 2015 , 138 Pt 3, 300-4	1.7	7
147	Whole-body live mouse imaging by hybrid reflection-mode ultrasound and optoacoustic tomography. <i>Optics Letters</i> , 2015 , 40, 4643-6	3	23

146	Non-contact optoacoustic imaging with focused air-coupled transducers. <i>Applied Physics Letters</i> , 2015 , 107, 051105	3.4	31
145	High-frame rate four dimensional optoacoustic tomography enables visualization of cardiovascular dynamics and mouse heart perfusion. <i>Scientific Reports</i> , 2015 , 5, 10133	4.9	30
144	Real-time monitoring of incision profile during laser surgery using shock wave detection. <i>Journal of Biophotonics</i> , 2015 , 8, 102-11	3.1	9
143	Multiscale edge detection and parametric shape modeling for boundary delineation in optoacoustic images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 707-10	0.9	8
142	Selective plane illumination optical and optoacoustic microscopy for postembryonic imaging. <i>Laser and Photonics Reviews</i> , 2015 , 9, L29-L34	8.3	15
141	Doxycycline Inducible Melanogenic Vaccinia Virus as Theranostic Anti-Cancer Agent. <i>Theranostics</i> , 2015 , 5, 1045-57	12.1	17
140	Listening to Light and Seeing Through: Biomedical Photoacoustic Imaging [From the Guest Editors]. <i>IEEE Pulse</i> , 2015 , 6, 3-4	0.7	4
139	Fast calibration of speed-of-sound using temperature prior in whole-body small animal optoacoustic imaging 2015 ,		1
138	Image reconstruction in cross-sectional optoacoustic tomography based on non-negative constrained model-based inversion 2015 ,		1
137	Optoacoustic monitoring of real-time lesion formation during radiofrequency catheter ablation 2015 ,		1
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3	In-vitro and in-vivo characterization of CRANAD-2 for multi-spectral optoacoustic tomography and fluorescence imaging of amyloid-beta deposits in Alzheimer mice		2

2 Non-invasive imaging of tau-targeted probe uptake by whole brain multi-spectral optoacoustic tomography 5

1 Broadband Model-Based Optoacoustic Mesoscopy Enables Deep-Tissue Imaging beyond the Acoustic Diffraction Limit. *Laser and Photonics Reviews*,2100381 8,3 0