

Daniel Razansky

List of Publications by Citations

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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	Molecular imaging by means of multispectral optoacoustic tomography (MSOT). <i>Chemical Reviews</i> , 2010 , 110, 2783-94	68.1	537
306	Multispectral opto-acoustic tomography of deep-seated fluorescent proteins in vivo. <i>Nature Photonics</i> , 2009 , 3, 412-417	33.9	492
305	Multifunctional Nanocarriers for diagnostics, drug delivery and targeted treatment across blood-brain barrier: perspectives on tracking and neuroimaging. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 3	8.4	310
304	Volumetric real-time multispectral optoacoustic tomography of biomarkers. <i>Nature Protocols</i> , 2011 , 6, 1121-9	18.8	227
303	Fast semi-analytical model-based acoustic inversion for quantitative optoacoustic tomography. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 1275-85	11.7	203
302	High-sensitivity compact ultrasonic detector based on a pi-phase-shifted fiber Bragg grating. <i>Optics Letters</i> , 2011 , 36, 1833-5	3	178
301	Advanced optoacoustic methods for multiscale imaging of in vivo dynamics. <i>Chemical Society Reviews</i> , 2017 , 46, 2158-2198	58.5	168
300	Multispectral photoacoustic imaging of fluorochromes in small animals. <i>Optics Letters</i> , 2007 , 32, 2891-3	3	166
299	Video rate optoacoustic tomography of mouse kidney perfusion. <i>Optics Letters</i> , 2010 , 35, 2475-7	3	146
298	Real-time imaging of cardiovascular dynamics and circulating gold nanorods with multispectral optoacoustic tomography. <i>Optics Express</i> , 2010 , 18, 19592-602	3.3	134
297	Multispectral optoacoustic tomography (MSOT) scanner for whole-body small animal imaging. <i>Optics Express</i> , 2009 , 17, 21414-26	3.3	133
296	Acoustic Inversion in Optoacoustic Tomography: A Review. <i>Current Medical Imaging</i> , 2013 , 9, 318-336	1.2	132
295	Optoacoustic imaging and tomography: reconstruction approaches and outstanding challenges in image performance and quantification. <i>Sensors</i> , 2013 , 13, 7345-84	3.8	130
294	Accurate model-based reconstruction algorithm for three-dimensional optoacoustic tomography. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1922-8	11.7	126
293	Optical imaging of cancer heterogeneity with multispectral optoacoustic tomography. <i>Radiology</i> , 2012 , 263, 461-8	20.5	123
292	Photoacoustics: a historical review. <i>Advances in Optics and Photonics</i> , 2016 , 8, 586	16.7	116
291	Fast multispectral optoacoustic tomography (MSOT) for dynamic imaging of pharmacokinetics and biodistribution in multiple organs. <i>PLoS ONE</i> , 2012 , 7, e30491	3.7	106

290	Multispectral opto-acoustic tomography (MSOT) of the brain and glioblastoma characterization. <i>NeuroImage</i> , 2013 , 65, 522-8	7.9	106
289	Adding fifth dimension to optoacoustic imaging: volumetric time-resolved spectrally enriched tomography. <i>Light: Science and Applications</i> , 2014 , 3, e137-e137	16.7	99
288	Model-based optoacoustic inversion with arbitrary-shape detectors. <i>Medical Physics</i> , 2011 , 38, 4285-95	4.4	98
287	A genetically encoded near-infrared fluorescent calcium ion indicator. <i>Nature Methods</i> , 2019 , 16, 171-174	11.6	96
286	Rapid volumetric optoacoustic imaging of neural dynamics across the mouse brain. <i>Nature Biomedical Engineering</i> , 2019 , 3, 392-401	19	91
285	The effects of acoustic attenuation in optoacoustic signals. <i>Physics in Medicine and Biology</i> , 2011 , 56, 6129-48	3.8	91
284	Functional optoacoustic human angiography with handheld video rate three dimensional scanner. <i>Photoacoustics</i> , 2013 , 1, 68-73	9	90
283	Functional optoacoustic neuro-tomography for scalable whole-brain monitoring of calcium indicators. <i>Light: Science and Applications</i> , 2016 , 5, e16201	16.7	90
282	Calcium Sensor for Photoacoustic Imaging. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2718-2721	16.4	86
281	Blind source unmixing in multi-spectral optoacoustic tomography. <i>Optics Express</i> , 2011 , 19, 3175-84	3.3	86
280	Deep learning optoacoustic tomography with sparse data. <i>Nature Machine Intelligence</i> , 2019 , 1, 453-460	22.5	85
279	In vivo imaging of Drosophila melanogaster pupae with mesoscopic fluorescence tomography. <i>Nature Methods</i> , 2008 , 5, 45-7	21.6	85
278	Multispectral optoacoustic tomography of matrix metalloproteinase activity in vulnerable human carotid plaques. <i>Molecular Imaging and Biology</i> , 2012 , 14, 277-85	3.8	84
277	Volumetric real-time tracking of peripheral human vasculature with GPU-accelerated three-dimensional optoacoustic tomography. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 2050-5	11.7	83
276	Model-based optoacoustic inversions with incomplete projection data. <i>Medical Physics</i> , 2011 , 38, 1694-704	11.4	83
275	Portable spherical array probe for volumetric real-time optoacoustic imaging at centimeter-scale depths. <i>Optics Express</i> , 2013 , 21, 28062-71	3.3	80
274	Sensitivity of molecular target detection by multispectral optoacoustic tomography (MSOT). <i>Medical Physics</i> , 2009 , 36, 939-45	4.4	76
273	Deep-tissue reporter-gene imaging with fluorescence and optoacoustic tomography: a performance overview. <i>Molecular Imaging and Biology</i> , 2014 , 16, 652-60	3.8	75

272	Acceleration of optoacoustic model-based reconstruction using angular image discretization. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1154-62	11.7	69
271	Hybrid photoacoustic fluorescence molecular tomography using finite-element-based inversion. <i>Medical Physics</i> , 2007 , 34, 4293-301	4.4	64
270	Spiral volumetric optoacoustic tomography visualizes multi-scale dynamics in mice. <i>Light: Science and Applications</i> , 2017 , 6, e16247	16.7	62
269	Quantitative optoacoustic signal extraction using sparse signal representation. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1997-2006	11.7	61
268	Deep tissue optical and optoacoustic molecular imaging technologies for pre-clinical research and drug discovery. <i>Current Pharmaceutical Biotechnology</i> , 2012 , 13, 504-22	2.6	60
267	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
266	Fast scanning coaxial optoacoustic microscopy. <i>Biomedical Optics Express</i> , 2012 , 3, 1724-31	3.5	57
265	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
264	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
263	Real-time optoacoustic brain microscopy with hybrid optical and acoustic resolution. <i>Laser Physics Letters</i> , 2014 , 11, 045601	1.5	54
262	Sensitive interferometric detection of ultrasound for minimally invasive clinical imaging applications. <i>Laser and Photonics Reviews</i> , 2014 , 8, 450-457	8.3	52
261	Transillumination fluorescence imaging in mice using biocompatible upconverting nanoparticles. <i>Optics Letters</i> , 2009 , 34, 2566-8	3	52
260	Near-field radiofrequency thermoacoustic tomography with impulse excitation. <i>Medical Physics</i> , 2010 , 37, 4602-7	4.4	52
259	Noninvasive real-time characterization of non-melanoma skin cancers with handheld optoacoustic probes. <i>Photoacoustics</i> , 2017 , 7, 20-26	9	51
258	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
257	Modeling the shape of cylindrically focused transducers in three-dimensional optoacoustic tomography. <i>Journal of Biomedical Optics</i> , 2013 , 18, 076014	3.5	49
256	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	8.8	47
255	Statistical approach for optoacoustic image reconstruction in the presence of strong acoustic heterogeneities. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 401-8	11.7	47

254	Functional optoacoustic imaging of moving objects using microsecond-delay acquisition of multispectral three-dimensional tomographic data. <i>Scientific Reports</i> , 2014 , 4, 5878	4.9	46
253	Three-dimensional optoacoustic tomography at video rate. <i>Optics Express</i> , 2012 , 20, 22712-9	3.3	46
252	Performance of iterative optoacoustic tomography with experimental data. <i>Applied Physics Letters</i> , 2009 , 95, 013703	3.4	46
251	High-contrast imaging of reversibly switchable fluorescent proteins via temporally unmixed multispectral optoacoustic tomography. <i>Optics Letters</i> , 2015 , 40, 367-70	3	44
250	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
249	Near-field thermoacoustic tomography of small animals. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3433-48	4.8	43
248	Correlation between volumetric oxygenation responses and electrophysiology identifies deep thalamocortical activity during epileptic seizures. <i>Neurophotonics</i> , 2017 , 4, 011007	3.9	41
247	Efficient non-negative constrained model-based inversion in optoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2015 , 60, 6733-50	3.8	40
246	Volumetric Optoacoustic Temperature Mapping in Photothermal Therapy. <i>Scientific Reports</i> , 2017 , 7, 9695	4.9	40
245	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
244	Optoacoustic micro-tomography at 100 volumes per second. <i>Scientific Reports</i> , 2017 , 7, 6850	4.9	38
243	Optoacoustic methods for frequency calibration of ultrasonic sensors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 316-26	3.2	38
242	Localization optoacoustic tomography. <i>Light: Science and Applications</i> , 2018 , 7, 18004	16.7	38
241	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
240	Optoacoustic imaging at kilohertz volumetric frame rates. <i>Optica</i> , 2018 , 5, 857-863	8.6	37
239	Pushing the Boundaries of Neuroimaging with Optoacoustics. <i>Neuron</i> , 2017 , 96, 966-988	13.9	37
238	Transmission-reflection optoacoustic ultrasound (TROPUS) computed tomography of small animals. <i>Light: Science and Applications</i> , 2019 , 8, 18	16.7	36
237	Effects of small variations of speed of sound in optoacoustic tomographic imaging. <i>Medical Physics</i> , 2014 , 41, 073301	4.4	36

236	Imaging of mesoscopic-scale organisms using selective-plane optoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2009 , 54, 2769-77	3.8	36
235	Wideband optical sensing using pulse interferometry. <i>Optics Express</i> , 2012 , 20, 19016-29	3.3	36
234	Real-time optoacoustic tomography of indocyanine green perfusion and oxygenation parameters in human finger vasculature. <i>Optics Letters</i> , 2014 , 39, 4061-4	3	35
233	Improved optoacoustic microscopy through three-dimensional spatial impulse response synthetic aperture focusing technique. <i>Optics Letters</i> , 2014 , 39, 3390-3	3	35
232	Efficient framework for model-based tomographic image reconstruction using wavelet packets. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1346-57	11.7	35
231	In vivo whole-body optoacoustic scanner with real-time volumetric imaging capacity. <i>Optica</i> , 2016 , 3, 1153	8.6	35
230	Real-Time Model-Based Inversion in Cross-Sectional Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1883-91	11.7	34
229	Real-time Volumetric Assessment of the Human Carotid Artery: Handheld Multispectral Optoacoustic Tomography. <i>Radiology</i> , 2019 , 291, 45-50	20.5	33
228	Multispectral Optoacoustic Tomography/Volumetric Color Hearing in Real Time. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012 , 18, 1234-1243	3.8	33
227	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
226	Four dimensional hybrid ultrasound and optoacoustic imaging via passive element optical excitation in a hand-held probe. <i>Applied Physics Letters</i> , 2014 , 105, 173505	3.4	32
225	Artefact reduction in optoacoustic tomographic imaging by estimating the distribution of acoustic scatterers. <i>Journal of Biomedical Optics</i> , 2012 , 17, 110504	3.5	32
224	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
223	Non-contact optoacoustic imaging with focused air-coupled transducers. <i>Applied Physics Letters</i> , 2015 , 107, 051105	3.4	31
222	Weighted model-based optoacoustic reconstruction in acoustic scattering media. <i>Physics in Medicine and Biology</i> , 2013 , 58, 5555-66	3.8	31
221	Statistical optoacoustic image reconstruction using a-priori knowledge on the location of acoustic distortions. <i>Applied Physics Letters</i> , 2011 , 98, 171110	3.4	31
220	Near-field thermoacoustic imaging with transmission line pulsers. <i>Medical Physics</i> , 2012 , 39, 4460-6	4.4	31
219	Enhanced heat deposition using ultrasound contrast agent--modeling and experimental observations. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 137-47	3.2	31

218	Effects of the murine skull in optoacoustic brain microscopy. <i>Journal of Biophotonics</i> , 2016 , 9, 117-23	3.1	31
217	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
216	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
215	Normalized Born ratio for fluorescence optical projection tomography. <i>Optics Letters</i> , 2009 , 34, 319-21	3	30
214	Optoacoustic determination of spatio-temporal responses of ultrasound sensors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1234-44	3.2	29
213	Model-based optoacoustic imaging using focused detector scanning. <i>Optics Letters</i> , 2012 , 37, 4080-2	3	29
212	Surface modification and size dependence in particle translocation during early embryonic development. <i>Inhalation Toxicology</i> , 2009 , 21 Suppl 1, 92-6	2.7	29
211	Performance of optoacoustic and fluorescence imaging in detecting deep-seated fluorescent agents. <i>Biomedical Optics Express</i> , 2018 , 9, 2229-2239	3.5	28
210	Three-dimensional optoacoustic reconstruction using fast sparse representation. <i>Optics Letters</i> , 2017 , 42, 979-982	3	28
209	High resolution tumor targeting in living mice by means of multispectral optoacoustic tomography. <i>EJNMMI Research</i> , 2012 , 2, 14	3.6	28
208	Non-invasive whole-body imaging of adult zebrafish with optoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2012 , 57, 7227-37	3.8	28
207	Motion clustering for deblurring multispectral optoacoustic tomography images of the mouse heart. <i>Journal of Biomedical Optics</i> , 2012 , 17, 016009	3.5	28
206	Broadband absorption spectroscopy via excitation of lossy resonance modes in thin films. <i>Physical Review Letters</i> , 2005 , 95, 018101	7.4	28
205	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
204	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
203	Fiber interferometer for hybrid optical and optoacoustic intravital microscopy. <i>Optica</i> , 2017 , 4, 1180	8.6	27
202	Expediting model-based optoacoustic reconstructions with tomographic symmetries. <i>Medical Physics</i> , 2014 , 41, 013302	4.4	27
201	Subharmonic response of encapsulated microbubbles: conditions for existence and amplification. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1767-76	3.5	27

200	Hybrid-array-based optoacoustic and ultrasound (OPUS) imaging of biological tissues. <i>Applied Physics Letters</i> , 2017 , 110, 203703	3.4	26
199	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
198	Virtual craniotomy for high-resolution optoacoustic brain microscopy. <i>Scientific Reports</i> , 2018 , 8, 1459	4.9	26
197	Dual-wavelength hybrid optoacoustic-ultrasound biomicroscopy for functional imaging of large-scale cerebral vascular networks. <i>Journal of Biophotonics</i> , 2018 , 11, e201800057	3.1	25
196	Broadband acoustic properties of a murine skull. <i>Physics in Medicine and Biology</i> , 2016 , 61, 1932-46	3.8	25
195	Functional real-time optoacoustic imaging of middle cerebral artery occlusion in mice. <i>PLoS ONE</i> , 2014 , 9, e96118	3.7	25
194	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
193	Light fluence normalization in turbid tissues via temporally unmixed multispectral optoacoustic tomography. <i>Optics Letters</i> , 2015 , 40, 4691-4	3	24
192	Optimal self-calibration of tomographic reconstruction parameters in whole-body small animal optoacoustic imaging. <i>Photoacoustics</i> , 2014 , 2, 128-36	9	24
191	Imaging of blood flow and oxygen state with a multi-segment optoacoustic ultrasound array. <i>Photoacoustics</i> , 2018 , 10, 48-53	9	24
190	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
189	Whole-body live mouse imaging by hybrid reflection-mode ultrasound and optoacoustic tomography. <i>Optics Letters</i> , 2015 , 40, 4643-6	3	23
188	Anatomical and microstructural imaging of angiogenesis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010 , 37 Suppl 1, S4-19	8.8	23
187	Necrosis avid near infrared fluorescent cyanines for imaging cell death and their use to monitor therapeutic efficacy in mouse tumor models. <i>Oncotarget</i> , 2015 , 6, 39036-49	3.3	23
186	Embedded ultrasound sensor in a silicon-on-insulator photonic platform. <i>Applied Physics Letters</i> , 2014 , 104, 021116	3.4	22
185	Hybrid system for in vivo epifluorescence and 4D optoacoustic imaging. <i>Optics Letters</i> , 2017 , 42, 4577-4580	3.5	22
184	Spatial characterization of the response of a silica optical fiber to wideband ultrasound. <i>Optics Letters</i> , 2012 , 37, 3174-6	3	22
183	Near-infrared fluorescence catheter system for two-dimensional intravascular imaging in vivo. <i>Optics Express</i> , 2010 , 18, 11372-81	3.3	21

182	Constrained Inversion and Spectral Unmixing in Multispectral Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1676-1685	11.7	20
181	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
180	Maximum Entropy Based Non-Negative Optoacoustic Tomographic Image Reconstruction. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2604-2616	5	18
179	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
178	Integrated catheter for simultaneous radio frequency ablation and optoacoustic monitoring of lesion progression. <i>Optics Letters</i> , 2018 , 43, 1886-1889	3	17
177	Volumetric optoacoustic imaging with multi-bandwidth deconvolution. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 814-21	11.7	17
176	Optical and opto-acoustic imaging. <i>Recent Results in Cancer Research</i> , 2013 , 187, 133-50	1.5	17
175	Doxycycline Inducible Melanogenic Vaccinia Virus as Theranostic Anti-Cancer Agent. <i>Theranostics</i> , 2015 , 5, 1045-57	12.1	17
174	Hybrid optoacoustic and ultrasound biomicroscopy monitors laser-induced tissue modifications and magnetite nanoparticle impregnation. <i>Laser Physics Letters</i> , 2014 , 11, 125601	1.5	17
173	Observation of Guided Acoustic Waves in a Human Skull. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 2388-2392	3.5	16
172	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
171	Universal weighted synthetic aperture focusing technique (W-SAFT) for scanning optoacoustic microscopy. <i>Optica</i> , 2017 , 4, 770	8.6	16
170	Dynamic particle enhancement in limited-view optoacoustic tomography. <i>Optics Letters</i> , 2017 , 42, 827-830		16
169	Volumetric optoacoustic imaging feedback during endovenous laser therapy - an ex vivo investigation. <i>Journal of Biophotonics</i> , 2016 , 9, 934-41	3.1	16
168	Noncontact monitoring of incision depth in laser surgery with air-coupled ultrasound transducers. <i>Optics Letters</i> , 2016 , 41, 2704-7	3	15
167	Listening to tissues with new light: recent technological advances in photoacoustic imaging. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21,	1.7	15
166	Multimodal Precision Imaging of Pulmonary Nanoparticle Delivery in Mice: Dynamics of Application, Spatial Distribution, and Dosimetry. <i>Small</i> , 2019 , 15, e1904112	11	15
165	Fast unmixing of multispectral optoacoustic data with vertex component analysis. <i>Optics and Lasers in Engineering</i> , 2014 , 58, 119-125	4.6	15

164	Selective plane illumination optical and optoacoustic microscopy for postembryonic imaging. <i>Laser and Photonics Reviews</i> , 2015 , 9, L29-L34	8.3	15
163	Improving Optoacoustic Image Quality via Geometric Pixel Super-Resolution Approach. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 812-8	11.7	14
162	Optoacoustic image formation approaches-a clinical perspective. <i>Physics in Medicine and Biology</i> , 2019 , 64, 18TR01	3.8	14
161	Optoacoustic tomography with varying illumination and non-uniform detection patterns. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010 , 27, 2488-95	1.8	14
160	Interpolated model-matrix optoacoustic tomography of the mouse brain. <i>Applied Physics Letters</i> , 2011 , 98, 163701	3.4	14
159	Functional optoacoustic neuro-tomography of calcium fluxes in adult zebrafish brain in vivo. <i>Optics Letters</i> , 2017 , 42, 959-962	3	14
158	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
157	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
156	Acoustic Scattering Mediated Single Detector Optoacoustic Tomography. <i>Physical Review Letters</i> , 2019 , 123, 174301	7.4	13
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	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
153	Sphingomyelin Synthase 1 Is Essential for Male Fertility in Mice. <i>PLoS ONE</i> , 2016 , 11, e0164298	3.7	13
152	Prediction and near-field observation of skull-guided acoustic waves. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4728-4740	3.8	12
151	Optoacoustic imaging of the skin. <i>Experimental Dermatology</i> , 2021 , 30, 1598-1609	4	12
150	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
149	Optoacoustic characterization of broadband directivity patterns of capacitive micromachined ultrasonic transducers. <i>Journal of Biomedical Optics</i> , 2017 , 22, 41005	3.5	11
148	Universal hand-held three-dimensional optoacoustic imaging probe for deep tissue human angiography and functional preclinical studies in real time. <i>Journal of Visualized Experiments</i> , 2014 , e51864	1.6	11
147	Spatiospectral denoising framework for multispectral optoacoustic imaging based on sparse signal representation. <i>Medical Physics</i> , 2014 , 41, 113301	4.4	11

146	Model-Based Reconstruction of Large Three-Dimensional Optoacoustic Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2931-2940	11.7	10
145	High-Speed Large-Field Multifocal Illumination Fluorescence Microscopy. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900070	8.3	10
144	Self-Gated Respiratory Motion Rejection for Optoacoustic Tomography. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2737	2.6	10
143	Optoacoustic monitoring of cutting efficiency and thermal damage during laser ablation. <i>Lasers in Medical Science</i> , 2014 , 29, 1029-35	3.1	10
142	Optoacoustic image segmentation based on signal domain analysis. <i>Photoacoustics</i> , 2015 , 3, 151-158	9	10
141	Estimation of optoacoustic contrast agent concentration with self-calibration blind logarithmic unmixing. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4785-97	3.8	10
140	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
139	Ultrafast Volumetric Optoacoustic Imaging of Whole Isolated Beating Mouse Heart. <i>Scientific Reports</i> , 2018 , 8, 14132	4.9	10
138	Wavelength-dependent optoacoustic imaging probes for NMDA receptor visualisation. <i>Chemical Communications</i> , 2015 , 51, 15149-52	5.8	9
137	Intravital optoacoustic and ultrasound bio-microscopy reveal radiation-inhibited skull angiogenesis. <i>Bone</i> , 2020 , 133, 115251	4.7	9
136	Accounting for speed of sound variations in volumetric hand-held optoacoustic imaging. <i>Frontiers of Optoelectronics</i> , 2017 , 10, 280-286	2.8	9
135	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
134	Multispectral optoacoustic tomography by means of normalized spectral ratio. <i>Optics Letters</i> , 2011 , 36, 4176-8	3	9
133	Born normalization for fluorescence optical projection tomography for whole heart imaging. <i>Journal of Visualized Experiments</i> , 2009 ,	1.6	9
132	Long-Term Imaging of Wound Angiogenesis with Large Scale Optoacoustic Microscopy. <i>Advanced Science</i> , 2021 , 8, 2004226	13.6	9
131	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
130	Four-dimensional optoacoustic monitoring of tissue heating with medium intensity focused ultrasound. <i>Ultrasonics</i> , 2019 , 94, 117-123	3.5	9
129	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

128	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
127	Uniform light delivery in volumetric optoacoustic tomography. <i>Journal of Biophotonics</i> , 2019 , 12, e201800387	0.3	8
126	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
125	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
124	Realtime parallel back-projection algorithm for three-dimensional optoacoustic imaging devices 2013 ,		8
123	Imaging of molecular probe activity with Born-normalized fluorescence optical projection tomography. <i>Optics Letters</i> , 2010 , 35, 1088-90	3	8
122	Optimal dispersion relations for enhanced electromagnetic power deposition in dissipative slabs. <i>Physical Review Letters</i> , 2004 , 93, 083902	7.4	8
121	Whole brain optoacoustic tomography reveals strain-specific regional beta-amyloid densities in Alzheimer's disease amyloidosis models		8
120	Short and long-term phototoxicity in cells expressing genetic reporters under nanosecond laser exposure. <i>Biomaterials</i> , 2015 , 69, 38-44	15.6	7
119	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
118	Experimental evaluation of cMUT and PZT transducers in receive only mode for photoacoustic imaging 2016 ,		7
117	High-Throughput Sparsity-Based Inversion Scheme for Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 674-84	11.7	7
116	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
115	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
114	Multifocal structured illumination optoacoustic microscopy. <i>Light: Science and Applications</i> , 2020 , 9, 152	16.7	7
113	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
112	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
111	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

110	Mesoscopic fluorescence tomography for in-vivo imaging of developing <i>Drosophila</i> . <i>Journal of Visualized Experiments</i> , 2009 ,	1.6	6
109	Effectiveness of acoustic power dissipation in lossy layers. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 84-89	2.2	6
108	Generalized transmission-line model for estimation of cellular handset power absorption in biological tissues. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 61-67	2	6
107	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
106	Rapid functional optoacoustic micro-angiography in a burst mode. <i>Optics Letters</i> , 2020 , 45, 2522-2525	3	6
105	Endocardial irrigated catheter for volumetric optoacoustic mapping of radio-frequency ablation lesion progression. <i>Optics Letters</i> , 2019 , 44, 5808-5811	3	6
104	Transcranial in vivo detection of amyloid-beta at single plaque resolution with large-field multifocal illumination fluorescence microscopy		6
103	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	3.75	6
102	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
101	Optoacoustic signal excitation with a tone-burst of short pulses. <i>Photoacoustics</i> , 2018 , 11, 1-5	9	6
100	Isolated Murine Brain Model for Large-Scale Optoacoustic Calcium Imaging. <i>Frontiers in Neuroscience</i> , 2019 , 13, 290	5.1	5
99	Discerning calvarian microvascular networks by combined optoacoustic ultrasound microscopy. <i>Photoacoustics</i> , 2020 , 19, 100178	9	5
98	Optoacoustic Calcium Imaging of Deep Brain Activity in an Intracardially Perfused Mouse Brain Model. <i>Photonics</i> , 2019 , 6, 67	2.2	5
97	Mapping molecular agents distributions in whole mice hearts using born-normalized optical projection tomography. <i>PLoS ONE</i> , 2012 , 7, e34427	3.7	5
96	Bounds and estimates for power absorption in two-dimensional highly lossy configurations. <i>Journal of Applied Physics</i> , 2004 , 95, 8298-8308	2.5	5
95	Toward whole-brain optoacoustic angiography of rodents: modeling and experimental observations. <i>Biomedical Optics Express</i> , 2020 , 11, 1477-1488	3.5	5
94	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
93	Non-invasive imaging of tau-targeted probe uptake by whole brain multi-spectral optoacoustic tomography		5

92	Broadband optoacoustic characterization of cMUT and PZT transducer directivity in receive mode 2017 ,		4
91	Listening to Light and Seeing Through: Biomedical Photoacoustic Imaging [From the Guest Editors]. <i>IEEE Pulse</i> , 2015 , 6, 3-4	0.7	4
90	Three-dimensional modeling of the transducer shape in acoustic resolution optoacoustic microscopy 2014 ,		4
89	Optimized microbolometers with higher sensitivity for visible and infrared imaging. <i>Optics Express</i> , 2006 , 14, 10426-34	3.3	4
88	Speed of sound ultrasound transmission tomography image reconstruction based on Bézier curves. <i>Ultrasonics</i> , 2020 , 103, 106097	3.5	4
87	Croconaine-based nanoparticles enable efficient optoacoustic imaging of murine brain tumors. <i>Photoacoustics</i> , 2021 , 22, 100263	9	4
86	High-Throughput Platform for Optoacoustic Probing of Genetically Encoded Calcium Ion Indicators. <i>IScience</i> , 2019 , 22, 400-408	6.1	4
85	Compressed Optoacoustic Sensing of Volumetric Cardiac Motion. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3250-3255	11.7	3
84	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
83	Influence of the absorber dimensions on wavefront shaping based on volumetric optoacoustic feedback. <i>Optics Letters</i> , 2015 , 40, 5395-8	3	3
82	Time-shifting correction in optoacoustic tomographic imaging for media with non-uniform speed of sound 2011 ,		3
81	Plane-wave model for electromagnetic power absorption in biological tissues. <i>Journal of Applied Physics</i> , 2003 , 94, 2053-2059	2.5	3
80	Non-invasive longitudinal imaging of VEGF-induced microvascular alterations in skin wounds.. <i>Theranostics</i> , 2022 , 12, 558-573	12.1	3
79	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
78	Unveiling bulk and surface radiation forces in a dielectric liquid.. <i>Light: Science and Applications</i> , 2022 , 11, 103	16.7	3
77	Noninvasive multiparametric characterization of mammary tumors with transmission-reflection optoacoustic ultrasound. <i>Neoplasia</i> , 2020 , 22, 770-777	6.4	2
76	Volumetric Optoacoustic Tomography Differentiates Myocardial Remodelling. <i>Molecular Imaging and Biology</i> , 2020 , 22, 1235-1243	3.8	2
75	DESIGN AND TIME-DOMAIN ANALYSIS OF A HIGH-VOLTAGE IMPULSED TEST-BED FOR NEAR-FIELD THERMOACOUSTIC TOMOGRAPHY. <i>Progress in Electromagnetics Research</i> , 2013 , 139, 105-119	3.8	2

74	Visualization of mouse kidney perfusion with multispectral optoacoustic tomography (MSOT) at video rate 2011 ,		2
73	Multispectral optoacoustic tomography resolves smart probe activation in vulnerable plaques 2011 ,		2
72	Blind spectral unmixing to identify molecular signatures of absorbers in multispectral optoacoustic tomography 2011 ,		2
71	Near-field radio-frequency thermo-acoustic imaging based on transmission lines for optimized performance 2012 ,		2
70	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
69	A new catheter design for combined radiofrequency ablation and optoacoustic treatment monitoring using copper-coated light-guides 2018 ,		2
68	Image reconstruction in cross-sectional optoacoustic tomography based on non-negative constrained model-based inversion 2015 ,		2
67	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
66	Optical and Optoacoustic Imaging. <i>Recent Results in Cancer Research</i> , 2020 , 216, 155-187	1.5	2
65	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
64	In-vitroandin-vivocharacterization of CRANAD-2 for multi-spectral optoacoustic tomography and fluorescence imaging of amyloid-beta deposits in Alzheimer mice		2
63	Diffuse optical localization imaging for noninvasive deep brain microangiography in the NIR-II window. <i>Optica</i> , 2021 , 8, 796	8.6	2
62	Single-sweep volumetric optoacoustic tomography of whole mice. <i>Photonics Research</i> , 2021 , 9, 899	6	2
61	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
60	Advancing ovarian folliculometry with selective plane illumination microscopy. <i>Scientific Reports</i> , 2016 , 6, 38057	4.9	2
59	Looking at the Skull in a New Light: Rayleigh-Lamb Waves in Cranial Bone 2018 ,		2
58	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
57	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

56	Hybrid ultrasound and dual-wavelength optoacoustic biomicroscopy for functional neuroimaging 2017,		1
55	Optoacoustic properties of Doxorubicin - A pilot study. <i>PLoS ONE</i> , 2019 , 14, e0217576	3.7	1
54	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
53	Imaging the distribution of photoswitchable probes with temporally-unmixed multispectral optoacoustic tomography 2016,		1
52	Correction to "Multispectral Optoacoustic Tomography---Volumetric Color Hearing in Real Time" [May 12 1234-1243]. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 334-334	3.8	1
51	Wideband optical detector of ultrasound for medical imaging applications. <i>Journal of Visualized Experiments</i> , 2014,	1.6	1
50	Non-contact monitoring during laser surgery by measuring the incision depth with air-coupled transducers 2017,		1
49	Fast calibration of speed-of-sound using temperature prior in whole-body small animal optoacoustic imaging 2015,		1
48	Image reconstruction in cross-sectional optoacoustic tomography based on non-negative constrained model-based inversion 2015,		1
47	Optoacoustic monitoring of real-time lesion formation during radiofrequency catheter ablation 2015,		1
46	Model-based tomographic optoacoustic reconstructions in acoustically attenuating media 2014,		1
45	Three-dimensional tracking of lesion profile during laser surgery based on shock wave detection 2014,		1
44	Automated calibration of temporal changes in the speed of sound in optoacoustic tomography 2013,		1
43	Multimodal optoacoustic and multiphoton fluorescence microscopy 2013,		1
42	Fast semi-analytical acoustic inversion for quantitative optoacoustic tomography 2011,		1
41	Tomographic optoacoustic inversion in dynamic illumination scenarios 2011,		1
40	Correction for acoustic attenuation effects in optoacoustic tomographic reconstructions 2011,		1
39	Statistical weighting of model-based optoacoustic reconstruction for minimizing artefacts caused by strong acoustic mismatch 2011,		1

38	Multiparametric optimization of multispectral optoacoustic tomography for deep tissue imaging 2010,		1
37	Mesosopic imaging of fluorescent proteins using multi-spectral optoacoustic tomography (MSOT) 2009,		1
36	Experimental Study of Ultrasound Contrast Agent Mediated Heat Transfer for Therapeutic Applications. <i>AIP Conference Proceedings</i> , 2006,	0	1
35	Non-negative constrained inversion approaches for unmixing chromophores in multispectral optoacoustic tomography 2017,		1
34	Four-dimensional optoacoustic temperature mapping in laser-induced thermotherapy 2018,		1
33	Monitoring of tissue heating with medium intensity focused ultrasound via four dimensional optoacoustic tomography 2018,		1
32	Combined multispectral near-infrared optoacoustic tomography and magnetic resonance imaging technique to monitor brain tumor vascularization. <i>Biomedical Optics Express</i> , 2012 , 3, 522	3.5	1
31	Wavefront shaping based on three-dimensional optoacoustic feedback 2015,		1
30	Widefield fluorescence localization microscopy for transcranial imaging of cortical perfusion with capillary resolution. <i>Optics Letters</i> , 2020 , 45, 3470-3473	3	1
29	Light fluence estimation by imaging photoswitchable probes with temporally unmixed multispectral optoacoustic tomography 2016,		1
28	Towards a compact, high-speed optical linkbased 3D optoacoustic imager 2020,		1
27	Hybrid system for in vivo real-time planar fluorescence and volumetric optoacoustic imaging 2018,		1
26	Multifocal structured illumination fluorescence microscopy with large field-of-view and high spatio-temporal resolution 2018,		1
25	Detection of cerebral tauopathy in P301L mice using high-resolution large-field multifocal illumination fluorescence microscopy		1
24	Optical Imaging 2017 , 403-490		1
23	High Speed Model-based Inversion in Cross-sectional Optoacoustic Tomography 2016,		1
22	Cortex-wide microcirculation mapping with ultrafast large-field multifocal illumination microscopy. <i>Journal of Biophotonics</i> , 2020 , 13, e202000198	3.1	1
21	Noninvasive multimodal fluorescence and magnetic resonance imaging of whole-organ intervertebral discs. <i>Biomedical Optics Express</i> , 2021 , 12, 3214-3227	3.5	1

20	Non-contact optoacoustic imaging by raster scanning a piezoelectric air-coupled transducer 2016 ,		1
19	Hemodynamic response to sensory stimulation in mice: Comparison between functional ultrasound and optoacoustic imaging. <i>NeuroImage</i> , 2021 , 237, 118111	7.9	1
18	In situ characterization of microparticulate optoacoustic contrast agents in an intracardiac perfusion mouse model. <i>Optics Letters</i> , 2021 , 46, 4350-4353	3	1
17	Optoacoustic imaging with an air-coupled transducer using coaxially aligned focused illumination. <i>AIP Advances</i> , 2022 , 12, 035043	1.5	1
16	Optoacoustic Imaging 2014 , 281-300		0
15	Polarization-sensitive optoacoustic tomography of optically diffuse tissues. <i>Optics Letters</i> , 2008 , 33, 2308-10		0
14	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
13	Silicon-Photonics Point Sensor for High-Resolution Optoacoustic Imaging. <i>Advanced Optical Materials</i> , 2021 , 9, 2100256	8.1	0
12	Noninvasive optoacoustic microangiography reveals dose and size dependency of radiation-induced deep tumor vasculature remodeling.. <i>Neoplasia</i> , 2022 , 26, 100778	6.4	0
11	Broadband Model-Based Optoacoustic Mesoscopy Enables Deep-Tissue Imaging beyond the Acoustic Diffraction Limit. <i>Laser and Photonics Reviews</i> , 2100381	8.3	0
10	High-resolution fluorescence-guided transcranial ultrasound mapping in the live mouse brain. <i>Science Advances</i> , 2021 , 7, eabi5464	14.3	0
9	MODEL-BASED IMAGE RECONSTRUCTION IN OPTOACOUSTIC TOMOGRAPHY. <i>Series in Computer Vision</i> , 2014 , 133-150		
8	Revolutionizing Biopharmaceutical Development with Quantitative Multispectral Optoacoustic Tomography (MSOT) 2013 , 211-232		
7	Cavity plasmon resonance biosensing. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 580-585	2.6	
6	Rigorous Characterization of Resonant Hot Spot Conditions in a Stratified Tissue Model. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 1063-1072	4.1	
5	Cavity-enhanced biosensing utilizing plasmon resonance modes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4602-5		
4	Introduction to the Biophotonics Congress 2018 feature issue. <i>Biomedical Optics Express</i> , 2018 , 9, 6398-6399		
3	Segmentation and Tracking of Tumor Vasculature Using Volumetric Multispectral Optoacoustic Tomography. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 75-78	0.4	

- 2 Bestimmung der Herzfunktion in einem Mausmodell zum Myokardinfarkt mittels optoakustischer Bildgebung. *RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren*, **2017**, 189, S1-S124 2.3
- 1 Guided Waves in the Skull.. *Advances in Experimental Medicine and Biology*, **2022**, 1364, 411-422 3.6