

# Daniel Razansky

## List of Publications by Year in descending order

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398  
papers

13,114  
citations

23500

58  
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33814

99  
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419  
all docs

419  
docs citations

419  
times ranked

7178  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Imaging by Means of Multispectral Optoacoustic Tomography (MSOT). <i>Chemical Reviews</i> , 2010, 110, 2783-2794.	23.0	705
2	Multispectral opto-acoustic tomography of deep-seated fluorescent proteins in vivo. <i>Nature Photonics</i> , 2009, 3, 412-417.	15.6	632
3	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.	2.8	386
4	Volumetric real-time multispectral optoacoustic tomography of biomarkers. <i>Nature Protocols</i> , 2011, 6, 1121-1129.	5.5	293
5	Fast Semi-Analytical Model-Based Acoustic Inversion for Quantitative Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1275-1285.	5.4	255
6	Advanced optoacoustic methods for multiscale imaging of in vivo dynamics. <i>Chemical Society Reviews</i> , 2017, 46, 2158-2198.	18.7	251
7	High-sensitivity compact ultrasonic detector based on a pi-phase-shifted fiber Bragg grating. <i>Optics Letters</i> , 2011, 36, 1833.	1.7	230
8	Multispectral photoacoustic imaging of fluorochromes in small animals. <i>Optics Letters</i> , 2007, 32, 2891.	1.7	208
9	Photoacoustics: a historical review. <i>Advances in Optics and Photonics</i> , 2016, 8, 586.	12.1	189
10	Video rate optoacoustic tomography of mouse kidney perfusion. <i>Optics Letters</i> , 2010, 35, 2475.	1.7	187
11	Acoustic Inversion in Optoacoustic Tomography: A Review. <i>Current Medical Imaging</i> , 2014, 9, 318-336.	0.4	176
12	Real-time imaging of cardiovascular dynamics and circulating gold nanorods with multispectral optoacoustic tomography. <i>Optics Express</i> , 2010, 18, 19592.	1.7	174
13	Multispectral optoacoustic tomography (MSOT) scanner for whole-body small animal imaging. <i>Optics Express</i> , 2009, 17, 21414.	1.7	170
14	Rapid volumetric optoacoustic imaging of neural dynamics across the mouse brain. <i>Nature Biomedical Engineering</i> , 2019, 3, 392-401.	11.6	168
15	Accurate Model-Based Reconstruction Algorithm for Three-Dimensional Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1922-1928.	5.4	166
16	Optoacoustic Imaging and Tomography: Reconstruction Approaches and Outstanding Challenges in Image Performance and Quantification. <i>Sensors</i> , 2013, 13, 7345-7384.	2.1	162
17	A genetically encoded near-infrared fluorescent calcium ion indicator. <i>Nature Methods</i> , 2019, 16, 171-174.	9.0	154
18	Adding fifth dimension to optoacoustic imaging: volumetric time-resolved spectrally enriched tomography. <i>Light: Science and Applications</i> , 2014, 3, e137-e137.	7.7	148

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19	Deep learning optoacoustic tomography with sparse data. <i>Nature Machine Intelligence</i> , 2019, 1, 453-460.	8.3	148
20	Optical Imaging of Cancer Heterogeneity with Multispectral Optoacoustic Tomography. <i>Radiology</i> , 2012, 263, 461-468.	3.6	134
21	Model-based optoacoustic inversion with arbitrary-shape detectors. <i>Medical Physics</i> , 2011, 38, 4285-4295.	1.6	127
22	In vivo imaging of <i>Drosophila melanogaster</i> pupae with mesoscopic fluorescence tomography. <i>Nature Methods</i> , 2008, 5, 45-47.	9.0	125
23	Fast Multispectral Optoacoustic Tomography (MSOT) for Dynamic Imaging of Pharmacokinetics and Biodistribution in Multiple Organs. <i>PLoS ONE</i> , 2012, 7, e30491.	1.1	124
24	Multispectral Opto-acoustic Tomography (MSOT) of the Brain and Glioblastoma Characterization. <i>NeuroImage</i> , 2013, 65, 522-528.	2.1	123
25	Functional optoacoustic neuro-tomography for scalable whole-brain monitoring of calcium indicators. <i>Light: Science and Applications</i> , 2016, 5, e16201-e16201.	7.7	122
26	Portable spherical array probe for volumetric real-time optoacoustic imaging at centimeter-scale depths. <i>Optics Express</i> , 2013, 21, 28062.	1.7	120
27	Volumetric Real-Time Tracking of Peripheral Human Vasculature With GPU-Accelerated Three-Dimensional Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 2050-2055.	5.4	119
28	The effects of acoustic attenuation in optoacoustic signals. <i>Physics in Medicine and Biology</i> , 2011, 56, 6129-6148.	1.6	113
29	Blind source unmixing in multi-spectral optoacoustic tomography. <i>Optics Express</i> , 2011, 19, 3175.	1.7	112
30	Calcium Sensor for Photoacoustic Imaging. <i>Journal of the American Chemical Society</i> , 2018, 140, 2718-2721.	6.6	109
31	Functional optoacoustic human angiography with handheld video rate three dimensional scanner. <i>Photoacoustics</i> , 2013, 1, 68-73.	4.4	105
32	Model-based optoacoustic inversions with incomplete projection data. <i>Medical Physics</i> , 2011, 38, 1694-1704.	1.6	104
33	Multispectral Optoacoustic Tomography of Matrix Metalloproteinase Activity in Vulnerable Human Carotid Plaques. <i>Molecular Imaging and Biology</i> , 2012, 14, 277-285.	1.3	98
34	Acceleration of Optoacoustic Model-Based Reconstruction Using Angular Image Discretization. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1154-1162.	5.4	96
35	Sensitivity of molecular target detection by multispectral optoacoustic tomography (MSOT). <i>Medical Physics</i> , 2009, 36, 939-945.	1.6	88
36	Spiral volumetric optoacoustic tomography visualizes multi-scale dynamics in mice. <i>Light: Science and Applications</i> , 2017, 6, e16247-e16247.	7.7	88

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37	Deep-Tissue Reporter-Gene Imaging with Fluorescence and Optoacoustic Tomography: A Performance Overview. <i>Molecular Imaging and Biology</i> , 2014, 16, 652-660.	1.3	87
38	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.	4.4	87
39	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, 531-535.	2.4	80
40	Noninvasive real-time characterization of non-melanoma skin cancers with handheld optoacoustic probes. <i>Photoacoustics</i> , 2017, 7, 20-26.	4.4	80
41	Hybrid photoacoustic fluorescence molecular tomography using finite-element-based inversion. <i>Medical Physics</i> , 2007, 34, 4293-4301.	1.6	79
42	Dual-Modality Surface-Enhanced Resonance Raman Scattering and Multispectral Optoacoustic Tomography Nanoparticle Approach for Brain Tumor Delineation. <i>Small</i> , 2018, 14, e1800740.	5.2	78
43	Quantitative Optoacoustic Signal Extraction Using Sparse Signal Representation. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1997-2006.	5.4	77
44	Sensitive interferometric detection of ultrasound for minimally invasive clinical imaging applications. <i>Laser and Photonics Reviews</i> , 2014, 8, 450-457.	4.4	71
45	Transmission-“reflection” optoacoustic ultrasound (TROPUS) computed tomography of small animals. <i>Light: Science and Applications</i> , 2019, 8, 18.	7.7	71
46	Fast scanning coaxial optoacoustic microscopy. <i>Biomedical Optics Express</i> , 2012, 3, 1724.	1.5	68
47	Real-time optoacoustic brain microscopy with hybrid optical and acoustic resolution. <i>Laser Physics Letters</i> , 2014, 11, 045601.	0.6	67
48	Real-time Volumetric Assessment of the Human Carotid Artery: Handheld Multispectral Optoacoustic Tomography. <i>Radiology</i> , 2019, 291, 45-50.	3.6	66
49	Deep Tissue Optical and Optoacoustic Molecular Imaging Technologies for Pre-Clinical Research and Drug Discovery. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 504-522.	0.9	65
50	Modeling the shape of cylindrically focused transducers in three-dimensional optoacoustic tomography. <i>Journal of Biomedical Optics</i> , 2013, 18, 076014.	1.4	65
51	Near-field radiofrequency thermoacoustic tomography with impulse excitation. <i>Medical Physics</i> , 2010, 37, 4602-4607.	1.6	64
52	Hybrid optoacoustic tomography and pulse-echo ultrasonography using concave arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1651-1661.	1.7	64
53	Transillumination fluorescence imaging in mice using biocompatible upconverting nanoparticles. <i>Optics Letters</i> , 2009, 34, 2566.	1.7	63
54	Three-dimensional optoacoustic tomography at video rate. <i>Optics Express</i> , 2012, 20, 22712.	1.7	63

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55	Functional optoacoustic imaging of moving objects using microsecond-delay acquisition of multispectral three-dimensional tomographic data. <i>Scientific Reports</i> , 2014, 4, 5878.	1.6	62
56	Volumetric Optoacoustic Temperature Mapping in Photothermal Therapy. <i>Scientific Reports</i> , 2017, 7, 9695.	1.6	62
57	Performance of iterative optoacoustic tomography with experimental data. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	61
58	Volumetric hand-held optoacoustic angiography as a tool for real-time screening of dense breast. <i>Journal of Biophotonics</i> , 2016, 9, 253-259.	1.1	61
59	Near-field thermoacoustic tomography of small animals. <i>Physics in Medicine and Biology</i> , 2011, 56, 3433-3444.	1.6	59
60	Localization optoacoustic tomography. <i>Light: Science and Applications</i> , 2018, 7, 18004-18004.	7.7	59
61	Statistical Approach for Optoacoustic Image Reconstruction in the Presence of Strong Acoustic Heterogeneities. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 401-408.	5.4	58
62	High-contrast imaging of reversibly switchable fluorescent proteins via temporally unmixed multispectral optoacoustic tomography. <i>Optics Letters</i> , 2015, 40, 367.	1.7	57
63	In vivo whole-body optoacoustic scanner with real-time volumetric imaging capacity. <i>Optica</i> , 2016, 3, 1153.	4.8	57
64	Simultaneous visualization of tumour oxygenation, neovascularization and contrast agent perfusion by real-time three-dimensional optoacoustic tomography. <i>European Radiology</i> , 2016, 26, 1843-1851.	2.3	57
65	Optoacoustic imaging at kilohertz volumetric frame rates. <i>Optica</i> , 2018, 5, 857.	4.8	57
66	Efficient 3-D Model-Based Reconstruction Scheme for Arbitrary Optoacoustic Acquisition Geometries. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1858-1867.	5.4	55
67	Correlation between volumetric oxygenation responses and electrophysiology identifies deep thalamocortical activity during epileptic seizures. <i>Neurophotonics</i> , 2016, 4, 011007.	1.7	54
68	Pushing the Boundaries of Neuroimaging with Optoacoustics. <i>Neuron</i> , 2017, 96, 966-988.	3.8	54
69	Efficient non-negative constrained model-based inversion in optoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2015, 60, 6733-6750.	1.6	53
70	Wideband optical sensing using pulse interferometry. <i>Optics Express</i> , 2012, 20, 19016.	1.7	50
71	Three-dimensional Optoacoustic Monitoring of Lesion Formation in Real Time During Radiofrequency Catheter Ablation. <i>Journal of Cardiovascular Electrophysiology</i> , 2015, 26, 339-345.	0.8	50
72	Optoacoustic micro-tomography at 100 volumes per second. <i>Scientific Reports</i> , 2017, 7, 6850.	1.6	50

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73	Multi-scale optoacoustic molecular imaging of brain diseases. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 4152-4170.	3.3	50
74	Effects of small variations of speed of sound in optoacoustic tomographic imaging. <i>Medical Physics</i> , 2014, 41, 073301.	1.6	49
75	Imaging of mesoscopic-scale organisms using selective-plane optoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2009, 54, 2769-2777.	1.6	48
76	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.	5.4	48
77	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
78	Improved optoacoustic microscopy through three-dimensional spatial impulse response synthetic aperture focusing technique. <i>Optics Letters</i> , 2014, 39, 3390.	1.7	47
79	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
80	Optoacoustic imaging of the skin. <i>Experimental Dermatology</i> , 2021, 30, 1598-1609.	1.4	47
81	Near-field thermoacoustic imaging with transmission line pulsers. <i>Medical Physics</i> , 2012, 39, 4460-4466.	1.6	46
82	Real-Time Model-Based Inversion in Cross-Sectional Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1883-1891.	5.4	46
83	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
84	Optoacoustic methods for frequency calibration of ultrasonic sensors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 316-326.	1.7	43
85	Efficient Framework for Model-Based Tomographic Image Reconstruction Using Wavelet Packets. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1346-1357.	5.4	43
86	Multispectral Optoacoustic Tomography—Volumetric Color Hearing in Real Time. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1234-1243.	1.9	43
87	Four dimensional hybrid ultrasound and optoacoustic imaging via passive element optical excitation in a hand-held probe. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	43
88	Effects of the murine skull in optoacoustic brain microscopy. <i>Journal of Biophotonics</i> , 2016, 9, 117-123.	1.1	43
89	Imaging of blood flow and oxygen state with a multi-segment optoacoustic ultrasound array. <i>Photoacoustics</i> , 2018, 10, 48-53.	4.4	43
90	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

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91	High-frame rate four dimensional optoacoustic tomography enables visualization of cardiovascular dynamics and mouse heart perfusion. <i>Scientific Reports</i> , 2015, 5, 10133.	1.6	42
92	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
93	Non-invasive whole-body imaging of adult zebrafish with optoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2012, 57, 7227-7237.	1.6	41
94	Broadband acoustic properties of a murine skull. <i>Physics in Medicine and Biology</i> , 2016, 61, 1932-1946.	1.6	41
95	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.	0.3	41
96	Performance of optoacoustic and fluorescence imaging in detecting deep-seated fluorescent agents. <i>Biomedical Optics Express</i> , 2018, 9, 2229.	1.5	41
97	Enhanced heat deposition using ultrasound contrast agent - modeling and experimental observations. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 137-147.	1.7	40
98	Embedded ultrasound sensor in a silicon-on-insulator photonic platform. <i>Applied Physics Letters</i> , 2014, 104, 021116.	1.5	40
99	Hybrid-array-based optoacoustic and ultrasound (OPUS) imaging of biological tissues. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	40
100	Fiber interferometer for hybrid optical and optoacoustic intravital microscopy. <i>Optica</i> , 2017, 4, 1180.	4.8	40
101	Statistical optoacoustic image reconstruction using a-priori knowledge on the location of acoustic distortions. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	39
102	Model-based optoacoustic imaging using focused detector scanning. <i>Optics Letters</i> , 2012, 37, 4080.	1.7	39
103	Non-contact optoacoustic imaging with focused air-coupled transducers. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	39
104	Multiscale optical and optoacoustic imaging of amyloid- $\beta$ deposits in mice. <i>Nature Biomedical Engineering</i> , 2022, 6, 1031-1044.	11.6	39
105	Normalized Born ratio for fluorescence optical projection tomography. <i>Optics Letters</i> , 2009, 34, 319.	1.7	38
106	Weighted model-based optoacoustic reconstruction in acoustic scattering media. <i>Physics in Medicine and Biology</i> , 2013, 58, 5555-5566.	1.6	38
107	Real-time optoacoustic tomography of indocyanine green perfusion and oxygenation parameters in human finger vasculature. <i>Optics Letters</i> , 2014, 39, 4061.	1.7	38
108	Artefact reduction in optoacoustic tomographic imaging by estimating the distribution of acoustic scatterers. <i>Journal of Biomedical Optics</i> , 2012, 17, 110504.	1.4	37

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109	Visual Quality Enhancement in Optoacoustic Tomography Using Active Contour Segmentation Priors. IEEE Transactions on Medical Imaging, 2016, 35, 2209-2217.	5.4	37
110	Three-dimensional optoacoustic reconstruction using fast sparse representation. Optics Letters, 2017, 42, 979.	1.7	37
111	Surface modification and size dependence in particle translocation during early embryonic development. Inhalation Toxicology, 2009, 21, 92-96.	0.8	35
112	Expediting model-based optoacoustic reconstructions with tomographic symmetries. Medical Physics, 2013, 41, 013302.	1.6	35
113	Dual-wavelength hybrid optoacoustic-ultrasound biomicroscopy for functional imaging of large-scale cerebral vascular networks. Journal of Biophotonics, 2018, 11, e201800057.	1.1	35
114	Virtual craniotomy for high-resolution optoacoustic brain microscopy. Scientific Reports, 2018, 8, 1459.	1.6	33
115	Hybrid system for in vivo epifluorescence and 4D optoacoustic imaging. Optics Letters, 2017, 42, 4577.	1.7	32
116	Observation of Guided Acoustic Waves in a Human Skull. Ultrasound in Medicine and Biology, 2018, 44, 2388-2392.	0.7	32
117	Non-invasive determination of murine placental and foetal functional parameters with multispectral optoacoustic tomography. Light: Science and Applications, 2019, 8, 71.	7.7	32
118	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
119	In-vitro and in-vivo characterization of CRANAD-2 for multi-spectral optoacoustic tomography and fluorescence imaging of amyloid-beta deposits in Alzheimer mice. Photoacoustics, 2021, 23, 100285.	4.4	32
120	Subharmonic Response of Encapsulated Microbubbles: Conditions for Existence and Amplification. Ultrasound in Medicine and Biology, 2007, 33, 1767-1776.	0.7	31
121	Optoacoustic determination of spatio-temporal responses of ultrasound sensors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1234-1244.	1.7	31
122	Optimal self-calibration of tomographic reconstruction parameters in whole-body small animal optoacoustic imaging. Photoacoustics, 2014, 2, 128-136.	4.4	31
123	Broadband Absorption Spectroscopy via Excitation of Lossy Resonance Modes in Thin Films. Physical Review Letters, 2005, 95, 018101.	2.9	30
124	Motion clustering for deblurring multispectral optoacoustic tomography images of the mouse heart. Journal of Biomedical Optics, 2012, 17, 016009.	1.4	30
125	High resolution tumor targeting in living mice by means of multispectral optoacoustic tomography. EJNMMI Research, 2012, 2, 14.	1.1	30
126	Hybrid optoacoustic and ultrasound biomicroscopy monitors laser-induced tissue modifications and magnetite nanoparticle impregnation. Laser Physics Letters, 2014, 11, 125601.	0.6	30



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127	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
128	Model-Based Reconstruction of Large Three-Dimensional Optoacoustic Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2931-2940.	5.4	30
129	Long-Term Imaging of Wound Angiogenesis with Large Scale Optoacoustic Microscopy. <i>Advanced Science</i> , 2021, 8, 2004226.	5.6	30
130	Functional Real-Time Optoacoustic Imaging of Middle Cerebral Artery Occlusion in Mice. <i>PLoS ONE</i> , 2014, 9, e96118.	1.1	30
131	Whole-body live mouse imaging by hybrid reflection-mode ultrasound and optoacoustic tomography. <i>Optics Letters</i> , 2015, 40, 4643.	1.7	29
132	Light fluence normalization in turbid tissues via temporally unmixed multispectral optoacoustic tomography. <i>Optics Letters</i> , 2015, 40, 4691.	1.7	28
133	Maximum Entropy Based Non-Negative Optoacoustic Tomographic Image Reconstruction. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2604-2616.	2.5	28
134	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, 39036-39049.	0.8	28
135	Violacein as a genetically-controlled, enzymatically amplified and photobleaching-resistant chromophore for optoacoustic bacterial imaging. <i>Scientific Reports</i> , 2015, 5, 11048.	1.6	27
136	Constrained Inversion and Spectral Unmixing in Multispectral Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1676-1685.	5.4	27
137	Anatomical and microstructural imaging of angiogenesis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010, 37, 4-19.	3.3	26
138	Spatial characterization of the response of a silica optical fiber to wideband ultrasound. <i>Optics Letters</i> , 2012, 37, 3174.	1.7	26
139	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
140	Optoacoustic image formation approaches—a clinical perspective. <i>Physics in Medicine and Biology</i> , 2019, 64, 18TR01.	1.6	26
141	Dynamic particle enhancement in limited-view optoacoustic tomography. <i>Optics Letters</i> , 2017, 42, 827.	1.7	25
142	Near-infrared fluorescence catheter system for two-dimensional intravascular imaging in vivo. <i>Optics Express</i> , 2010, 18, 11372.	1.7	24
143	Noninvasive Anatomical and Functional Imaging of Orthotopic Glioblastoma Development and Therapy using Multispectral Optoacoustic Tomography. <i>Translational Oncology</i> , 2018, 11, 1251-1258.	1.7	24
144	Integrated catheter for simultaneous radio frequency ablation and optoacoustic monitoring of lesion progression. <i>Optics Letters</i> , 2018, 43, 1886.	1.7	23

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145	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.	0.3	23
146	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
147	Volumetric Optoacoustic Imaging With Multi-Bandwidth Deconvolution. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 814-821.	5.4	22
148	Acoustic Scattering Mediated Single Detector Optoacoustic Tomography. <i>Physical Review Letters</i> , 2019, 123, 174301.	2.9	22
149	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
150	Realtime parallel back-projection algorithm for three-dimensional optoacoustic imaging devices. <i>Proceedings of SPIE</i> , 2013, , .	0.8	21
151	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
152	Selective plane illumination optical and optoacoustic microscopy for postembryonic imaging. <i>Laser and Photonics Reviews</i> , 2015, 9, L29.	4.4	20
153	Volumetric optoacoustic imaging feedback during endovenous laser therapy “an <i>ex vivo</i> ” investigation. <i>Journal of Biophotonics</i> , 2016, 9, 934-941.	1.1	20
154	Self-Gated Respiratory Motion Rejection for Optoacoustic Tomography. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2737.	1.3	20
155	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
156	Optical and Opto-Acoustic Imaging. <i>Recent Results in Cancer Research</i> , 2013, 187, 133-150.	1.8	19
157	Doxycycline Inducible Melanogenic Vaccinia Virus as Theranostic Anti-Cancer Agent. <i>Theranostics</i> , 2015, 5, 1045-1057.	4.6	19
158	Noncontact monitoring of incision depth in laser surgery with air-coupled ultrasound transducers. <i>Optics Letters</i> , 2016, 41, 2704.	1.7	19
159	Noninvasive multiparametric characterization of mammary tumors with transmission-reflection optoacoustic ultrasound. <i>Neoplasia</i> , 2020, 22, 770-777.	2.3	19
160	Intravital optoacoustic and ultrasound bio-microscopy reveal radiation-inhibited skull angiogenesis. <i>Bone</i> , 2020, 133, 115251.	1.4	19
161	Development of concurrent magnetic resonance imaging and volumetric optoacoustic tomography: A phantom feasibility study. <i>Journal of Biophotonics</i> , 2021, 14, e202000293.	1.1	19
162	Croconaine-based nanoparticles enable efficient optoacoustic imaging of murine brain tumors. <i>Photoacoustics</i> , 2021, 22, 100263.	4.4	19

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