

Simon R Arridge

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336
papers

13,289
citations

60
h-index

106
g-index

398
ext. papers

15,720
ext. citations

3.6
avg, IF

6.49
L-index

#	Paper	IF	Citations
336	DAGAN: Deep De-Aliasing Generative Adversarial Networks for Fast Compressed Sensing MRI Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1310-1321	11.7	444
335	A finite element approach for modeling photon transport in tissue. <i>Medical Physics</i> , 1993 , 20, 299-309	4.4	423
334	Quantitative spectroscopic photoacoustic imaging: a review. <i>Journal of Biomedical Optics</i> , 2012 , 17, 061203	10.3	412
333	Optical imaging in medicine: II. Modelling and reconstruction. <i>Physics in Medicine and Biology</i> , 1997 , 42, 841-53	3.8	390
332	Optical tomography: forward and inverse problems. <i>Inverse Problems</i> , 2009 , 25, 123010	2.3	345
331	A survey of hierarchical non-linear medical image registration. <i>Pattern Recognition</i> , 1999 , 32, 129-149	7.7	329
330	Optical imaging in medicine: I. Experimental techniques. <i>Physics in Medicine and Biology</i> , 1997 , 42, 825-403	3.8	327
329	Theoretical and experimental investigation of near-infrared light propagation in a model of the adult head. <i>Applied Optics</i> , 1997 , 36, 21-31	1.7	311
328	Three-dimensional in vivo fluorescence diffuse optical tomography of breast cancer in humans. <i>Optics Express</i> , 2007 , 15, 6696-716	3.3	278
327	Nonuniqueness in diffusion-based optical tomography. <i>Optics Letters</i> , 1998 , 23, 882-4	3	246
326	Attenuation correction synthesis for hybrid PET-MR scanners: application to brain studies. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2332-41	11.7	235
325	Photon-measurement density functions. Part 2: Finite-element-method calculations. <i>Applied Optics</i> , 1995 , 34, 8026-37	1.7	213
324	Photon-measurement density functions. Part I: Analytical forms. <i>Applied Optics</i> , 1995 , 34, 7395-409	1.7	210
323	Diffuse optical tomography of breast cancer during neoadjuvant chemotherapy: a case study with comparison to MRI. <i>Medical Physics</i> , 2005 , 32, 1128-39	4.4	199
322	Three-dimensional optical tomography of the premature infant brain. <i>Physics in Medicine and Biology</i> , 2002 , 47, 4155-66	3.8	198
321	Sources of intensity nonuniformity in spin echo images at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 121-8	4.4	196
320	An investigation of light transport through scattering bodies with non-scattering regions. <i>Physics in Medicine and Biology</i> , 1996 , 41, 767-83	3.8	174

319	Solving inverse problems using data-driven models. <i>Acta Numerica</i> , 2019 , 28, 1-174	15.1	173
318	Two-dimensional quantitative photoacoustic image reconstruction of absorption distributions in scattering media by use of a simple iterative method. <i>Applied Optics</i> , 2006 , 45, 1866-75	1.7	160
317	A gradient-based optimisation scheme for optical tomography. <i>Optics Express</i> , 1998 , 2, 213-26	3.3	154
316	Differentiation of benign and malignant breast tumors by in-vivo three-dimensional parallel-plate diffuse optical tomography. <i>Journal of Biomedical Optics</i> , 2009 , 14, 024020	3.5	151
315	Gauss-Newton method for image reconstruction in diffuse optical tomography. <i>Physics in Medicine and Biology</i> , 2005 , 50, 2365-86	3.8	148
314	k-space propagation models for acoustically heterogeneous media: application to biomedical photoacoustics. <i>Journal of the Acoustical Society of America</i> , 2007 , 121, 3453-64	2.2	146
313	Model-Based Learning for Accelerated, Limited-View 3-D Photoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1382-1393	11.7	138
312	Measurement of optical path length for cerebral near-infrared spectroscopy in newborn infants. <i>Developmental Neuroscience</i> , 1990 , 12, 140-4	2.2	138
311	Diffuse optical tomography with spectral constraints and wavelength optimization. <i>Applied Optics</i> , 2005 , 44, 2082-93	1.7	137
310	Uniqueness and wavelength optimization in continuous-wave multispectral diffuse optical tomography. <i>Optics Letters</i> , 2003 , 28, 2339-41	3	129
309	The Toast++ software suite for forward and inverse modeling in optical tomography. <i>Journal of Biomedical Optics</i> , 2014 , 19, 040801	3.5	128
308	Imaging changes in blood volume and oxygenation in the newborn infant brain using three-dimensional optical tomography. <i>Physics in Medicine and Biology</i> , 2004 , 49, 1117-30	3.8	120
307	Time resolved optical tomography of the human forearm. <i>Physics in Medicine and Biology</i> , 2001 , 46, 1117-30	3.30	117
306	Solving Boundary Integral Problems with BEM++. <i>ACM Transactions on Mathematical Software</i> , 2015 , 41, 1-40	2.3	112
305	Application of the finite-element method for the forward and inverse models in optical tomography. <i>Journal of Mathematical Imaging and Vision</i> , 1993 , 3, 263-283	1.6	111
304	Three dimensional digitization of the face and skull. <i>Journal of Maxillofacial Surgery</i> , 1985 , 13, 136-43		111
303	The finite element model for the propagation of light in scattering media: a direct method for domains with nonscattering regions. <i>Medical Physics</i> , 2000 , 27, 252-64	4.4	110
302	Three-dimensional whole-head optical tomography of passive motor evoked responses in the neonate. <i>NeuroImage</i> , 2006 , 30, 521-8	7.9	105

301	Three-dimensional time-resolved optical tomography of a conical breast phantom. <i>Applied Optics</i> , 2001 , 40, 3278-87	1.7	102
300	Image reconstruction in optical tomography. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997 , 352, 717-26	5.8	90
299	Anisotropic effects in highly scattering media. <i>Physical Review E</i> , 2003 , 68, 031908	2.4	89
298	Dynamic physiological modeling for functional diffuse optical tomography. <i>NeuroImage</i> , 2006 , 30, 88-101	7.9	88
297	Real-time cardiovascular MR with spatio-temporal artifact suppression using deep learning-proof of concept in congenital heart disease. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1143-1156	4.4	88
296	Time-series estimation of biological factors in optical diffusion tomography. <i>Physics in Medicine and Biology</i> , 2003 , 48, 1491-504	3.8	87
295	Application of temporal filters to time resolved data in optical tomography. <i>Physics in Medicine and Biology</i> , 1999 , 44, 1699-717	3.8	87
294	Simultaneous imaging and optode calibration with diffuse optical tomography. <i>Optics Express</i> , 2001 , 8, 263-70	3.3	86
293	Joint reconstruction of PET-MRI by exploiting structural similarity. <i>Inverse Problems</i> , 2015 , 31, 015001	2.3	85
292	PET image reconstruction using information theoretic anatomical priors. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 537-49	11.7	84
291	Use of anisotropic modelling in electrical impedance tomography: description of method and preliminary assessment of utility in imaging brain function in the adult human head. <i>NeuroImage</i> , 2008 , 43, 258-68	7.9	82
290	Optical tomography of the breast using a multi-channel time-resolved imager. <i>Physics in Medicine and Biology</i> , 2005 , 50, 2503-17	3.8	82
289	A computer system for the interactive planning and prediction of maxillofacial surgery. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 1988 , 94, 469-75	2.1	81
288	Accelerated high-resolution photoacoustic tomography via compressed sensing. <i>Physics in Medicine and Biology</i> , 2016 , 61, 8908-8940	3.8	78
287	Coupled radiative transfer equation and diffusion approximation model for photon migration in turbid medium with low-scattering and non-scattering regions. <i>Physics in Medicine and Biology</i> , 2005 , 50, 4913-30	3.8	77
286	Three dimensional optical imaging of blood volume and oxygenation in the neonatal brain. <i>NeuroImage</i> , 2006 , 31, 1426-33	7.9	76
285	Diffusion tensor magnetic resonance image regularization. <i>Medical Image Analysis</i> , 2004 , 8, 47-67	15.4	75
284	Dynamic MR image reconstruction-separation from undersampled (k,t)-space via low-rank plus sparse prior. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 1689-701	11.7	74

283	A nonrigid registration framework using spatially encoded mutual information and free-form deformations. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1819-28	11.7	72
282	Towards next-generation time-domain diffuse optics for extreme depth penetration and sensitivity. <i>Biomedical Optics Express</i> , 2015 , 6, 1749-60	3.5	70
281	Optical tomography in the presence of void regions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000 , 17, 1659-70	1.8	70
280	A method for three-dimensional time-resolved optical tomography. <i>International Journal of Imaging Systems and Technology</i> , 2000 , 11, 2-11	2.5	67
279	Three-dimensional time-resolved optical mammography of the uncompressed breast. <i>Applied Optics</i> , 2007 , 46, 3628-38	1.7	65
278	Practical PET Respiratory Motion Correction in Clinical PET/MR. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 890-6	8.9	64
277	Calibration techniques and datatype extraction for time-resolved optical tomography. <i>Review of Scientific Instruments</i> , 2000 , 71, 3415-3427	1.7	61
276	PET Reconstruction With an Anatomical MRI Prior Using Parallel Level Sets. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2189-2199	11.7	60
275	Multifrequency electrical impedance tomography using spectral constraints. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 340-50	11.7	60
274	Direct calculation of the moments of the distribution of photon time of flight in tissue with a finite-element method. <i>Applied Optics</i> , 1995 , 34, 2683-7	1.7	60
273	On the adjoint operator in photoacoustic tomography. <i>Inverse Problems</i> , 2016 , 32, 115012	2.3	59
272	Simulation of MRI cluster plots and application to neurological segmentation. <i>Magnetic Resonance Imaging</i> , 1996 , 14, 73-92	3.3	59
271	Reconstruction methods for infrared absorption imaging 1991 , 1431, 204		58
270	Three-dimensional reconstruction of shape and piecewise constant region values for optical tomography using spherical harmonic parametrization and a boundary element method. <i>Inverse Problems</i> , 2006 , 22, 1509-1532	2.3	56
269	MARGINALIZATION OF UNINTERESTING DISTRIBUTED PARAMETERS IN INVERSE PROBLEMS?APPLICATION TO DIFFUSE OPTICAL TOMOGRAPHY 2011 , 1, 1-17		55
268	Model-based imaging of cardiac apparent conductivity and local conduction velocity for diagnosis and planning of therapy. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1631-42	11.7	52
267	The finite-element method for the propagation of light in scattering media: frequency domain case. <i>Medical Physics</i> , 1997 , 24, 895-902	4.4	50
266	Simultaneous reconstruction of absorption and scattering images by multichannel measurement of purely temporal data. <i>Optics Letters</i> , 1999 , 24, 534-6	3	50

265	Stroke type differentiation using spectrally constrained multifrequency EIT: evaluation of feasibility in a realistic head model. <i>Physiological Measurement</i> , 2014 , 35, 1051-66	2.9	49
264	State-estimation approach to the nonstationary optical tomography problem. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003 , 20, 876-89	1.8	49
263	Data analysis methods for near-infrared spectroscopy of tissue: problems in determining the relative cytochrome aa3 concentration 1991 , 1431, 251		49
262	Comparison of two- and three-dimensional reconstruction methods in optical tomography. <i>Applied Optics</i> , 1998 , 37, 7419-28	1.7	48
261	Single-pixel optical camera for video rate ultrasonic imaging. <i>Optica</i> , 2016 , 3, 26	8.6	47
260	Methods in diffuse optical imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 4558-76	3	47
259	Fast silicon photomultiplier improves signal harvesting and reduces complexity in time-domain diffuse optics. <i>Optics Express</i> , 2015 , 23, 13937-46	3.3	46
258	Vector-valued image processing by parallel level sets. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 9-18	8.7	46
257	Diffuse photon propagation in multilayered geometries. <i>Physics in Medicine and Biology</i> , 2006 , 51, 497-516	3.6	45
256	Boundary conditions for light propagation in diffusive media with nonscattering regions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000 , 17, 1671-81	1.8	44
255	Fluorescence diffuse optical tomography using the split Bregman method. <i>Medical Physics</i> , 2011 , 38, 6275-84	4.4	42
254	A 4D neonatal head model for diffuse optical imaging of pre-term to term infants. <i>NeuroImage</i> , 2014 , 100, 385-94	7.9	41
253	In vivo fluorescence lifetime tomography of a FRET probe expressed in mouse. <i>Biomedical Optics Express</i> , 2011 , 2, 1907-17	3.5	39
252	Image reconstruction in optical tomography in the presence of coupling errors. <i>Applied Optics</i> , 2007 , 46, 2743-56	1.7	39
251	Imaging through scattering media by the use of an analytical model of perturbation amplitudes in the time domain. <i>Applied Optics</i> , 1996 , 35, 6788-96	1.7	38
250	Maximum-Likelihood Joint Image Reconstruction/Motion Estimation in Attenuation-Corrected Respiratory Gated PET/CT Using a Single Attenuation Map. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 217-28	11.7	37
249	Bayesian Image Reconstruction in Quantitative Photoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 2287-98	11.7	37
248	Variable order spherical harmonic expansion scheme for the radiative transport equation using finite elements. <i>Journal of Computational Physics</i> , 2011 , 230, 7364-7383	4.1	36

247	Optical tomography of a realistic neonatal head phantom. <i>Applied Optics</i> , 2003 , 42, 3109-16	1.7	36
246	Instrumentation and calibration methods for the multichannel measurement of phase and amplitude in optical tomography. <i>Review of Scientific Instruments</i> , 2005 , 76, 044302	1.7	36
245	Approximation errors and model reduction in three-dimensional diffuse optical tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 2257-68	1.8	34
244	Fluorescence lifetime imaging by using time-gated data acquisition. <i>Applied Optics</i> , 2007 , 46, 7384-91	1.7	33
243	Reconstructing absorption and diffusion shape profiles in optical tomography by a level set technique. <i>Optics Letters</i> , 2006 , 31, 471-3	3	33
242	Computational aspects of diffuse optical tomography. <i>Computing in Science and Engineering</i> , 2003 , 5, 33-41	1.5	33
241	Iterative reconstruction of near-infrared absorption images 1992 , 1767, 372		33
240	Accelerated Optical Projection Tomography Applied to In Vivo Imaging of Zebrafish. <i>PLoS ONE</i> , 2015 , 10, e0136213	3.7	33
239	Fast 3D optical reconstruction in turbid media using spatially modulated light. <i>Biomedical Optics Express</i> , 2010 , 1, 471-481	3.5	32
238	Multiple-slice imaging of a tissue-equivalent phantom by use of time-resolved optical tomography. <i>Applied Optics</i> , 2000 , 39, 3380-7	1.7	32
237	Multi-contrast attenuation map synthesis for PET/MR scanners: assessment on FDG and Florbetapir PET tracers. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015 , 42, 1447-58	8.8	31
236	Split operator method for fluorescence diffuse optical tomography using anisotropic diffusion regularisation with prior anatomical information. <i>Biomedical Optics Express</i> , 2011 , 2, 2632-48	3.5	31
235	Full-wavelet approach for fluorescence diffuse optical tomography with structured illumination. <i>Optics Letters</i> , 2010 , 35, 3676-8	3	31
234	A matrix-free algorithm for multiple wavelength fluorescence tomography. <i>Optics Express</i> , 2009 , 17, 3025-35	3.3	31
233	Fluorescence molecular tomography of an animal model using structured light rotating view acquisition. <i>Journal of Biomedical Optics</i> , 2013 , 18, 20503	3.5	30
232	Image reconstruction in diffuse optical tomography using the coupled radiative transport-diffusion model. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 2600-2608	2.1	30
231	Optode positional calibration in diffuse optical tomography. <i>Applied Optics</i> , 2003 , 42, 3154-62	1.7	30
230	Markov random field and Gaussian mixture for segmented MRI-based partial volume correction in PET. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6681-705	3.8	29

229	Temporal propagation of spatial information in turbid media. <i>Optics Letters</i> , 2008 , 33, 2836-8	3	29
228	Fast image reconstruction in fluorescence optical tomography using data compression. <i>Optics Letters</i> , 2010 , 35, 763-5	3	28
227	Attenuation correction synthesis for hybrid PET-MR scanners. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 147-54	0.9	28
226	Direct Estimation of Optical Parameters From Photoacoustic Time Series in Quantitative Photoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2497-2508	11.7	28
225	Estimation of an image derived input function with MR-defined carotid arteries in FDG-PET human studies using a novel partial volume correction method. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 1398-1409	7.3	27
224	A generalized framework unifying image registration and respiratory motion models and incorporating image reconstruction, for partial image data or full images. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4273-4292	3.8	27
223	Corrections to linear methods for diffuse optical tomography using approximation error modelling. <i>Biomedical Optics Express</i> , 2010 , 1, 209-222	3.5	27
222	Validity conditions for the radiative transfer equation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003 , 20, 2046-56	1.8	27
221	MR Imaging-Guided Partial Volume Correction of PET Data in PET/MR Imaging. <i>PET Clinics</i> , 2016 , 11, 161-77	2.2	26
220	A Reconstruction-Classification Method for Multifrequency Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1486-1497	11.7	25
219	An anatomically driven anisotropic diffusion filtering method for 3D SPECT reconstruction. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3793-810	3.8	25
218	Detection of inhomogeneities in diffusive media using spatially modulated light. <i>Optics Letters</i> , 2009 , 34, 2156-8	3	25
217	Information theoretic regularization in diffuse optical tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 1277-90	1.8	25
216	Experimental validation of Monte Carlo and finite-element methods for the estimation of the optical path length in inhomogeneous tissue. <i>Applied Optics</i> , 1996 , 35, 3362-71	1.7	25
215	Improvements to the quality of MRI cluster analysis. <i>Magnetic Resonance Imaging</i> , 1994 , 12, 1191-204	3.3	25
214	Direct parametric reconstruction from undersampled (k, t)-space data in dynamic contrast enhanced MRI. <i>Medical Image Analysis</i> , 2014 , 18, 989-1001	15.4	23
213	Computational calibration method for optical tomography. <i>Applied Optics</i> , 2005 , 44, 1879-88	1.7	22
212	Quantitative photoacoustic tomography using forward and adjoint Monte Carlo models of radiance. <i>Journal of Biomedical Optics</i> , 2016 , 21, 126004	3.5	22

211	NiftyPET: a High-throughput Software Platform for High Quantitative Accuracy and Precision PET Imaging and Analysis. <i>Neuroinformatics</i> , 2018 , 16, 95-115	3.2	21
210	Comparison of methods for optimal choice of the regularization parameter for linear electrical impedance tomography of brain function. <i>Physiological Measurement</i> , 2008 , 29, 1319-34	2.9	21
209	Application of a B-spline active surface technique to the measurement of cervical cord volume in multiple sclerosis from three-dimensional MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 18, 368-71	5.6	21
208	Performance of an iterative reconstruction algorithm for near-infrared absorption and scatter imaging 1993 ,		21
207	A fast boundary element method for the scattering analysis of high-intensity focused ultrasound. <i>Journal of the Acoustical Society of America</i> , 2015 , 138, 2726-37	2.2	20
206	3D shape based reconstruction of experimental data in Diffuse Optical Tomography. <i>Optics Express</i> , 2009 , 17, 18940-56	3.3	20
205	Local diffusion regularization method for optical tomography reconstruction by using robust statistics. <i>Optics Letters</i> , 2005 , 30, 2439-41	3	20
204	Time-resolved optical mammography using a liquid coupled interface. <i>Journal of Biomedical Optics</i> , 2005 , 10, 054011	3.5	20
203	Reconstruction of optical properties of phantom and breast lesion in vivo from paraxial scanning data. <i>Physics in Medicine and Biology</i> , 2005 , 50, 2519-42	3.8	20
202	Sensitivity to prior knowledge in optical tomographic reconstruction 1995 ,		20
201	Joint PET-MR respiratory motion models for clinical PET motion correction. <i>Physics in Medicine and Biology</i> , 2016 , 61, 6515-30	3.8	19
200	Use of measured scatter data for the attenuation correction of single photon emission tomography without transmission scanning. <i>Medical Physics</i> , 2013 , 40, 082506	4.4	19
199	Use of Split Bregman denoising for iterative reconstruction in fluorescence diffuse optical tomography. <i>Journal of Biomedical Optics</i> , 2013 , 18, 076016	3.5	19
198	Fluorescence lifetime tomography of live cells expressing enhanced green fluorescent protein embedded in a scattering medium exhibiting background autofluorescence. <i>Optics Letters</i> , 2007 , 32, 2034-6	3	19
197	Multiple illumination quantitative photoacoustic tomography using transport and diffusion models. <i>Contemporary Mathematics</i> , 2011 , 1-12	1.6	19
196	Sign determination methods for the respiratory signal in data-driven PET gating. <i>Physics in Medicine and Biology</i> , 2017 , 62, 3204-3220	3.8	18
195	A novel technique to incorporate structural prior information into multi-modal tomographic reconstruction. <i>Inverse Problems</i> , 2014 , 30, 065004	2.3	18
194	Multiple-view fluorescence optical tomography reconstruction using compression of experimental data. <i>Optics Letters</i> , 2011 , 36, 1377-9	3	18

193	Direct calculation with a finite-element method of the Laplace transform of the distribution of photon time of flight in tissue. <i>Applied Optics</i> , 1997 , 36, 9042-9	1.7	18
192	Validation of a finite-element solution for electrical impedance tomography in an anisotropic medium. <i>Physiological Measurement</i> , 2007 , 28, S129-40	2.9	18
191	Monitoring recovery after laser surgery of the breast with optical tomography: a case study. <i>Applied Optics</i> , 2005 , 44, 1898-904	1.7	18
190	Direct Parametric Reconstruction With Joint Motion Estimation/Correction for Dynamic Brain PET Data. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 203-213	11.7	17
189	Quantitative photoacoustic tomography using illuminations from a single direction. <i>Journal of Biomedical Optics</i> , 2015 , 20, 036015	3.5	17
188	Compensation of optode sensitivity and position errors in diffuse optical tomography using the approximation error approach. <i>Biomedical Optics Express</i> , 2013 , 4, 2015-31	3.5	17
187	3D level set reconstruction of model and experimental data in Diffuse Optical Tomography. <i>Optics Express</i> , 2010 , 18, 150-64	3.3	17
186	A virtual source pattern method for fluorescence tomography with structured light. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3811-32	3.8	17
185	Linear and nonlinear reconstruction for optical tomography of phantoms with nonscattering regions. <i>Applied Optics</i> , 2005 , 44, 3925-36	1.7	17
184	3D Shape Reconstruction in Optical Tomography Using Spherical Harmonics and BEM. <i>Journal of Electromagnetic Waves and Applications</i> , 2006 , 20, 1827-1836	1.3	17
183	Image reconstruction in optical tomography using local basis functions. <i>Journal of Electronic Imaging</i> , 2003 , 12, 583	0.7	17
182	Finite element approximation of the radiative transport equation in a medium with piece-wise constant refractive index. <i>Journal of Computational Physics</i> , 2015 , 282, 345-359	4.1	16
181	Dynamic causal modelling on infant fNIRS data: A validation study on a simultaneously recorded fNIRS-fMRI dataset. <i>NeuroImage</i> , 2018 , 175, 413-424	7.9	16
180	Optical Tomography in weakly scattering media in the presence of highly scattering inclusions. <i>Biomedical Optics Express</i> , 2011 , 2, 440-51	3.5	16
179	Three-dimensional imaging of Förster resonance energy transfer in heterogeneous turbid media by tomographic fluorescent lifetime imaging. <i>Optics Letters</i> , 2009 , 34, 2772-4	3	16
178	Hybrid time-domain and continuous-wave diffuse optical tomography instrument with concurrent, clinical magnetic resonance imaging for breast cancer imaging. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-11	3.5	16
177	Quantitative in vivo optical tomography of cancer progression & vasculature development in adult zebrafish. <i>Oncotarget</i> , 2016 , 7, 43939-43948	3.3	16
176	Multiple-view diffuse optical tomography system based on time-domain compressive measurements. <i>Optics Letters</i> , 2017 , 42, 2822-2825	3	15

175	Combined reconstruction of fluorescent and optical parameters using time-resolved data. <i>Applied Optics</i> , 2009 , 48, 28-36	0.2	15
174	Robust CT Synthesis for Radiotherapy Planning: Application to the Head and Neck Region. <i>Lecture Notes in Computer Science</i> , 2015 , 476-484	0.9	15
173	Heterodyne frequency-domain multispectral diffuse optical tomography of breast cancer in the parallel-plane transmission geometry. <i>Medical Physics</i> , 2016 , 43, 4383	4.4	15
172	Enhancing Compressed Sensing 4D Photoacoustic Tomography by Simultaneous Motion Estimation. <i>SIAM Journal on Imaging Sciences</i> , 2018 , 11, 2224-2253	1.9	15
171	Acoustic Wave Field Reconstruction From Compressed Measurements With Application in Photoacoustic Tomography. <i>IEEE Transactions on Computational Imaging</i> , 2017 , 3, 710-721	4.5	14
170	Compensation of modeling errors due to unknown domain boundary in diffuse optical tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 1847-55	1.8	14
169	Rapid whole-heart CMR with single volume super-resolution. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 56	6.9	14
168	Maximum-likelihood joint image reconstruction and motion estimation with misaligned attenuation in TOF-PET/CT. <i>Physics in Medicine and Biology</i> , 2016 , 61, L11-9	3.8	13
167	Preconditioning of complex symmetric linear systems with applications in optical tomography. <i>Applied Numerical Mathematics</i> , 2013 , 74, 35-48	2.5	13
166	Quantitative fluorescence diffuse optical tomography in the presence of heterogeneities. <i>Optics Letters</i> , 2013 , 38, 1903-5	3	13
165	Approximation error method can reduce artifacts due to scalp blood flow in optical brain activation imaging. <i>Journal of Biomedical Optics</i> , 2012 , 17, 96012-1	3.5	13
164	Physiological system identification with the Kalman filter in diffuse optical tomography. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 649-56	0.9	13
163	Time-Domain Functional Diffuse Optical Tomography System Based on Fiber-Free Silicon Photomultipliers. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1235	2.6	12
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