

Keith D Paulsen

List of Publications by Year in descending order

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174
papers

7,688
citations

53794

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h-index

58581

82
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174
all docs

174
docs citations

174
times ranked

5055
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy of Stereovision-Updated Versus Preoperative CT-Based Image Guidance in Multilevel Lumbar Pedicle Screw Placement. <i>JBJS Open Access</i> , 2022, 7, .	1.5	1
2	Quantifying stability of parameter estimates for in vivo nearly incompressible transversely-isotropic brain MR elastography. <i>Biomedical Physics and Engineering Express</i> , 2022, 8, 035015.	1.2	3
3	Mapping heterogenous anisotropic tissue mechanical properties with transverse isotropic nonlinear inversion MR elastography. <i>Medical Image Analysis</i> , 2022, 78, 102432.	11.6	14
4	A heterogenous, time harmonic, nearly incompressible transverse isotropic finite element brain simulation platform for MR elastography. <i>Physics in Medicine and Biology</i> , 2021, 66, 055029.	3.0	25
5	Poroelastic Mechanical Properties of the Brain Tissue of Normal Pressure Hydrocephalus Patients During Lumbar Drain Treatment Using Intrinsic Actuation MR Elastography. <i>Academic Radiology</i> , 2021, 28, 457-466.	2.5	20
6	A level-wise spine registration framework to account for large pose changes. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 943-953.	2.8	3
7	Improving the Usability of 5-Aminolevulinic Acid Fluorescence-Guided Surgery by Adding an Optimized Secondary Light Source. <i>World Neurosurgery</i> , 2021, 149, 195-203.e4.	1.3	1
8	Optical scatter imaging of resected breast tumor structures matches the patterns of micro-computed tomography. <i>Physics in Medicine and Biology</i> , 2021, 66, 115021.	3.0	6
9	Modeling and Synthesis of Breast Cancer Optical Property Signatures With Generative Models. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1687-1701.	8.9	12
10	Developing diagnostic assessment of breast lumpectomy tissues using radiomic and optical signatures. <i>Scientific Reports</i> , 2021, 11, 21832.	3.3	4
11	A dedicated 3-ch breast coil for Microwave Tomography at 3T. <i>Proceedings of the International Society for Magnetic Resonance in Medicine ... Scientific Meeting and Exhibition.</i> , 2021, 29, .	0.5	0
12	Performance assessment of MRI guided continuous wave near-infrared spectral tomography for breast imaging. <i>Biomedical Optics Express</i> , 2021, 12, 7657.	2.9	1
13	Comments on "Investigation of Histology Region Dielectric Measurements of Heterogeneous Tissues." <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 615-616.	5.1	4
14	Low Cost, High Performance, 16-Channel Microwave Measurement System for Tomographic Applications. <i>Sensors</i> , 2020, 20, 5436.	3.8	7
15	Standard space atlas of the viscoelastic properties of the human brain. <i>Human Brain Mapping</i> , 2020, 41, 5282-5300.	3.6	48
16	Dual-agent fluorescent labeling of soft tissue sarcomas improves the contrast based upon targeting both interstitial and cellular components of the tumor milieu. <i>Journal of Surgical Oncology</i> , 2020, 122, 1711-1720.	1.7	11
17	Hand-Held Stereovision System for Image Updating in Open Spine Surgery. <i>Operative Neurosurgery</i> , 2020, 19, 461-470.	0.8	7
18	Model-Based Image Updating for Brain Shift in Deep Brain Stimulation Electrode Placement Surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 3542-3552.	4.2	3

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19	Hippocampal stiffness in mesial temporal lobe epilepsy measured with MR elastography: Preliminary comparison with healthy participants. <i>NeuroImage: Clinical</i> , 2020, 27, 102313.	2.7	10
20	The shape of breast cancer. <i>Breast Cancer Research and Treatment</i> , 2020, 183, 403-410.	2.5	16
21	Nonlinear Inversion MR Elastography With Low-Frequency Actuation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1775-1784.	8.9	3
22	Measuring protein biomarker concentrations using antibody tagged magnetic nanoparticles. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 065025.	1.2	10
23	First experience with spatial frequency domain imaging and red-light excitation of protoporphyrin IX fluorescence during tumor resection. <i>Biomedical Optics Express</i> , 2020, 11, 4306.	2.9	13
24	5-Aminolevulinic Acid-Induced Fluorescence in Focal Cortical Dysplasia: Report of 3 Cases. <i>Operative Neurosurgery</i> , 2019, 16, 403-414.	0.8	4
25	A Randomized Prospective Trial of Supine MRI-Guided Versus Wire-Localized Lumpectomy for Breast Cancer. <i>Annals of Surgical Oncology</i> , 2019, 26, 3099-3108.	1.5	19
26	3-D Microwave Tomography Using the Soft Prior Regularization Technique: Evaluation in Anatomically Realistic MRI-Derived Numerical Breast Phantoms. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2566-2575.	4.2	30
27	A 4-channel, vector network analyzer microwave imaging prototype based on software defined radio technology. <i>Review of Scientific Instruments</i> , 2019, 90, 044708.	1.3	17
28	Preclinical imaging of epidermal growth factor receptor with ABY-029 in soft-tissue sarcoma for fluorescence-guided surgery and tumor detection. <i>Journal of Surgical Oncology</i> , 2019, 119, 1077-1086.	1.7	26
29	Quantitative subsurface spatial frequency-domain fluorescence imaging for enhanced glioma resection. <i>Journal of Biophotonics</i> , 2019, 12, e201800271.	2.3	9
30	Quantification of Subdural Electrode Shift Between Initial Implantation, Postimplantation Computed Tomography, and Subsequent Resection Surgery. <i>Operative Neurosurgery</i> , 2019, 16, 9-19.	0.8	2
31	First experience imaging short-wave infrared fluorescence in a large animal: indocyanine green angiography of a pig brain. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	16
32	Structured light imaging for breast-conserving surgery, part I: optical scatter and color analysis. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	9
33	Structured light imaging for breast-conserving surgery, part II: texture analysis and classification. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	14
34	Measuring microdose ABY-029 fluorescence signal in a primary human soft-tissue sarcoma resection. , 2019, 10862, .		14
35	Comparison of detection sensitivity of near infrared (NIR) surgical imaging systems using a connective tissue phantom model. , 2019, 10862, .		0
36	Direct Regularization From Co-Registered Contrast MRI Improves Image Quality of MRI-Guided Near-Infrared Spectral Tomography of Breast Lesions. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1247-1252.	8.9	5

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37	Fluorescence-guided surgery and intervention – An AAPM emerging technology blue paper. Medical Physics, 2018, 45, 2681-2688.	3.0	29
38	Application of Fluorescence-Guided Surgery to Subsurface Cancers Requiring Wide Local Excision. Cancer Control, 2018, 25, 107327481775233.	1.8	32
39	Image Updating for Brain Shift Compensation During Resection. Operative Neurosurgery, 2018, 14, 402-411.	0.8	19
40	Use of Stereovision for Intraoperative Coregistration of a Spinal Surgical Field: A Human Feasibility Study. Operative Neurosurgery, 2018, 14, 29-35.	0.8	4
41	Wide-field color imaging of scatter-based tissue contrast using both high spatial frequency illumination and cross-polarization gating. Journal of Biophotonics, 2018, 11, e201700104.	2.3	1
42	Micro-computed tomography enables rapid surgical margin assessment during breast conserving surgery (BCS): correlation of whole BCS micro-CT readings to final histopathology. Breast Cancer Research and Treatment, 2018, 172, 587-595.	2.5	25
43	MR elastography at 1-Hz of gelatin phantoms using 3D or 4D acquisition. Journal of Magnetic Resonance, 2018, 296, 112-120.	2.1	15
44	Weighting function effects in a direct regularization method for image-guided near-infrared spectral tomography of breast cancer. Biomedical Optics Express, 2018, 9, 3266.	2.9	4
45	Optimizing Glioma Detection Using an EGFR-Targeted Fluorescent Affibody. Photochemistry and Photobiology, 2018, 94, 1167-1171.	2.5	11
46	Review of methods for intraoperative margin detection for breast conserving surgery. Journal of Biomedical Optics, 2018, 23, 1.	2.6	90
47	Tissue oxygen saturation predicts response to breast cancer neoadjuvant chemotherapy within 10 days of treatment. Journal of Biomedical Optics, 2018, 24, 1.	2.6	32
48	Light scattering measured with spatial frequency domain imaging can predict stromal versus epithelial proportions in surgically resected breast tissue. Journal of Biomedical Optics, 2018, 24, 1.	2.6	12
49	Feasibility of using spatial frequency-domain imaging intraoperatively during tumor resection. Journal of Biomedical Optics, 2018, 24, 1.	2.6	10
50	Addressing Multipath Signal Corruption in Microwave Tomography and the Influence on System Design and Algorithm Development. Open Access Journal of Biomedical Engineering and Biosciences, 2018, 1, .	0.4	5
51	Fluorescent Affibody Molecule Administered In Vivo at a Microdose Level Labels EGFR Expressing Glioma Tumor Regions. Molecular Imaging and Biology, 2017, 19, 41-48.	2.6	34
52	Two-step inversion with a logarithmic transformation for microwave breast imaging. Medical Physics, 2017, 44, 4239-4251.	3.0	34
53	Toxicity and Pharmacokinetic Profile for Single-Dose Injection of ABY-029: a Fluorescent Anti-EGFR Synthetic Affibody Molecule for Human Use. Molecular Imaging and Biology, 2017, 19, 512-521.	2.6	69
54	A Patient-Specific 3D-Printed Form Accurately Transfers Supine MRI-Derived Tumor Localization Information to Guide Breast-Conserving Surgery. Annals of Surgical Oncology, 2017, 24, 2950-2956.	1.5	25

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55	Calibration and analysis of a multimodal micro-CT and structured light imaging system for the evaluation of excised breast tissue. <i>Physics in Medicine and Biology</i> , 2017, 62, 8983-9000.	3.0	20
56	Simultaneous <i>In Vivo</i> Fluorescent Markers for Perfusion, Protoporphyrin Metabolism, and EGFR Expression for Optically Guided Identification of Orthotopic Glioma. <i>Clinical Cancer Research</i> , 2017, 23, 2203-2212.	7.0	36
57	Gradient-Based Optimization for Poroelastic and Viscoelastic MR Elastography. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 236-250.	8.9	27
58	Fluorescence depth estimation from wide-field optical imaging data for guiding brain tumor resection: a multi-inclusion phantom study. <i>Biomedical Optics Express</i> , 2017, 8, 3656.	2.9	13
59	Collagen quantification in breast tissue using a 12-wavelength near infrared spectral tomography (NIRST) system. <i>Biomedical Optics Express</i> , 2017, 8, 4217.	2.9	10
60	A numerical framework for interstitial fluid pressure imaging in poroelastic MRE. <i>PLoS ONE</i> , 2017, 12, e0178521.	2.5	16
61	Addition of T2-guided optical tomography improves noncontrast breast magnetic resonance imaging diagnosis. <i>Breast Cancer Research</i> , 2017, 19, 117.	5.0	16
62	Performance assessment of diffuse optical spectroscopic imaging instruments in a 2-year multicenter breast cancer trial. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	41
63	Wide-field quantitative imaging of tissue microstructure using sub-diffuse spatial frequency domain imaging. <i>Optica</i> , 2016, 3, 613.	9.3	56
64	Portable, parallel 9-wavelength near-infrared spectral tomography (NIRST) system for efficient characterization of breast cancer within the clinical oncology infusion suite. <i>Biomedical Optics Express</i> , 2016, 7, 2186.	2.9	14
65	Microdose fluorescence imaging of ABY-029 on an operating microscope adapted by custom illumination and imaging modules. <i>Biomedical Optics Express</i> , 2016, 7, 3280.	2.9	22
66	Vision 20/20: Molecularly-guided surgical oncology based upon tumor metabolism or immunologic phenotype: Technological pathways for point of care imaging and intervention. <i>Medical Physics</i> , 2016, 43, 3143-3156.	3.0	12
67	Effects of breast density and compression on normal breast tissue hemodynamics through breast tomosynthesis guided near-infrared spectral tomography. <i>Journal of Biomedical Optics</i> , 2016, 21, 091316.	2.6	2
68	Two-step reconstruction process for microwave tomography without a priori information. , 2016, , .		1
69	Predicting Responses to Neoadjuvant Chemotherapy in Breast Cancer: ACRIN 6691 Trial of Diffuse Optical Spectroscopic Imaging. <i>Cancer Research</i> , 2016, 76, 5933-5944.	0.9	105
70	Intraoperative image updating for brain shift following dural opening. <i>Journal of Neurosurgery</i> , 2016, 126, 1924-1933.	1.6	27
71	Interplay between iteration step size and spatial filtering in microwave tomography. , 2016, , .		0
72	3D microwave tomography of the breast using prior anatomical information. <i>Medical Physics</i> , 2016, 43, 1933-1944.	3.0	40

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73	Multiobjective guided priors improve the accuracy of near-infrared spectral tomography for breast imaging. <i>Journal of Biomedical Optics</i> , 2016, 21, 090506.	2.6	14
74	Image-derived arterial input function for quantitative fluorescence imaging of receptor-drug binding <i>in vivo</i>. <i>Journal of Biophotonics</i> , 2016, 9, 282-295.	2.3	7
75	Differences in Regional Brain Volumes Two Months and One Year after Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 29-34.	3.4	39
76	Mathematical model to interpret localized reflectance spectra measured in the presence of a strong fluorescence marker. <i>Journal of Biomedical Optics</i> , 2016, 21, 061004.	2.6	1
77	Observation of direction-dependent mechanical properties in the human brain with multi-excitation MR elastography. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 538-546.	3.1	58
78	Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report. <i>Journal of Nuclear Medicine</i> , 2016, 57, 144-150.	5.0	125
79	Calibration and optimization of 3D digital breast tomosynthesis guided near infrared spectral tomography. <i>Biomedical Optics Express</i> , 2015, 6, 4981.	2.9	13
80	Improved sensitivity to fluorescence for cancer detection in wide-field image-guided neurosurgery. <i>Biomedical Optics Express</i> , 2015, 6, 5063.	2.9	19
81	Review of fluorescence guided surgery visualization and overlay techniques. <i>Biomedical Optics Express</i> , 2015, 6, 3765.	2.9	49
82	Digital breast tomosynthesis guided near infrared spectroscopy: volumetric estimates of fibroglandular fraction and breast density from tomosynthesis reconstructions. <i>Biomedical Physics and Engineering Express</i> , 2015, 1, 045202.	1.2	10
83	Cerebral multifrequency MR elastography by remote excitation of intracranial shear waves. <i>NMR in Biomedicine</i> , 2015, 28, 1426-1432.	2.8	20
84	Advancing molecular-guided surgery through probe development and testing in a moderate cost evaluation pipeline. <i>Proceedings of SPIE</i> , 2015, 9311, .	0.8	12
85	MR-Guided Near-Infrared Spectral Tomography Increases Diagnostic Performance of Breast MRI. <i>Clinical Cancer Research</i> , 2015, 21, 3906-3912.	7.0	29
86	Molecular dyes used for surgical specimen margin orientation allow for intraoperative optical assessment during breast conserving surgery. <i>Journal of Biomedical Optics</i> , 2015, 20, 040504.	2.6	11
87	Optimization of image reconstruction for magnetic resonance imaging-guided near-infrared diffuse optical spectroscopy in breast. <i>Journal of Biomedical Optics</i> , 2015, 20, 056009.	2.6	19
88	The Dartmouth Center for Cancer Nanotechnology Excellence: magnetic hyperthermia. <i>Nanomedicine</i> , 2015, 10, 1685-1692.	3.3	2
89	Macroscopic optical imaging technique for wide-field estimation of fluorescence depth in optically turbid media for application in brain tumor surgical guidance. <i>Journal of Biomedical Optics</i> , 2015, 20, 026002.	2.6	22
90	Macroscopic-imaging technique for subsurface quantification of near-infrared markers during surgery. <i>Journal of Biomedical Optics</i> , 2015, 20, 036014.	2.6	14

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91	Direct regularization from co-registered anatomical images for MRI-guided near-infrared spectral tomographic image reconstruction. <i>Biomedical Optics Express</i> , 2015, 6, 3618.	2.9	43
92	Intraoperative CT as a registration benchmark for intervertebral motion compensation in image-guided open spinal surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 2009-2020.	2.8	6
93	Quantitative fluorescence using 5-aminolevulinic acid-induced protoporphyrin IX biomarker as a surgical adjunct in low-grade glioma surgery. <i>Journal of Neurosurgery</i> , 2015, 123, 771-780.	1.6	131
94	Microwave tomographic imaging for breast cancer chemotherapy monitoring. , 2014, , .		6
95	Structured light scatteroscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 070504.	2.6	24
96	Effective bi-static array factor for tomographic imaging. , 2014, , .		0
97	Sensitivity of MRI-guided near-infrared spectroscopy clinical breast exam data and its impact on diagnostic performance. <i>Biomedical Optics Express</i> , 2014, 5, 3103.	2.9	27
98	Sub-diffusive scattering parameter maps recovered using wide-field high-frequency structured light imaging. <i>Biomedical Optics Express</i> , 2014, 5, 3376.	2.9	73
99	Stereovision to MR image registration for cortical surface displacement mapping to enhance image-guided neurosurgery. <i>Medical Physics</i> , 2014, 41, 102302.	3.0	18
100	Bound water and the effects on tissue dielectric properties for imaging purposes. , 2014, , .		2
101	Predicting Breast Tumor Response to Neoadjuvant Chemotherapy with Diffuse Optical Spectroscopic Tomography prior to Treatment. <i>Clinical Cancer Research</i> , 2014, 20, 6006-6015.	7.0	63
102	Adaptable Near-Infrared Spectroscopy Fiber Array for Improved Coupling to Different Breast Sizes During Clinical MRI. <i>Academic Radiology</i> , 2014, 21, 141-150.	2.5	19
103	Spatially-Resolved Hydraulic Conductivity Estimation Via Poroelastic Magnetic Resonance Elastography. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1373-1380.	8.9	18
104	Cortical surface shift estimation using stereovision and optical flow motion tracking via projection image registration. <i>Medical Image Analysis</i> , 2014, 18, 1169-1183.	11.6	41
105	Microwave open-ended coaxial dielectric probe: interpretation of the sensing volume re-visited. <i>BMC Medical Physics</i> , 2014, 14, 3.	2.4	63
106	3D multislabs, multishot acquisition for fast, whole-brain MR elastography with high signal-to-noise efficiency. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 477-485.	3.0	84
107	Microwave imaging for neoadjuvant chemotherapy monitoring: initial clinical experience. <i>Breast Cancer Research</i> , 2013, 15, R35.	5.0	98
108	Spectral discrimination of breast pathologies in situ using spatial frequency domain imaging. <i>Breast Cancer Research</i> , 2013, 15, R61.	5.0	72

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109	Including Spatial Information in Nonlinear Inversion MR Elastography Using Soft Prior Regularization. IEEE Transactions on Medical Imaging, 2013, 32, 1901-1909.	8.9	59
110	Tomographic Microwave Imaging With Incorporated Prior Spatial Information. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2129-2136.	4.6	52
111	Local mechanical properties of white matter structures in the human brain. NeuroImage, 2013, 79, 145-152.	4.2	158
112	Magnetic resonance elastography of the brain using multishot spiral readouts with self-navigated motion correction. Magnetic Resonance in Medicine, 2013, 70, 404-412.	3.0	93
113	Hybrid photomultiplier tube and photodiode parallel detection array for wideband optical spectroscopy of the breast guided by magnetic resonance imaging. Journal of Biomedical Optics, 2013, 19, 011010.	2.6	32
114	System analysis of spatial frequency domain imaging for quantitative mapping of surgically resected breast tissues. Journal of Biomedical Optics, 2013, 18, 036012.	2.6	47
115	Integration of microwave tomography with magnetic resonance for improved breast imaging. Medical Physics, 2013, 40, 103101.	3.0	58
116	Surface Wave Multipath Signals in Near-Field Microwave Imaging. International Journal of Biomedical Imaging, 2012, 2012, 1-11.	3.9	42
117	Cole's Cole Parameter Characterization of Urea and Potassium for Improving Dialysis Treatment Assessment. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1598-1601.	4.0	10
118	Textural analysis of optical scattering for identification of cancer in breast surgical specimens. , 2012, , .		0
119	Noninvasive bulk dielectric testing. , 2012, , .		0
120	3D Microwave bone imaging. , 2012, , .		16
121	ICA-guided delineation of breast cancer pathology. , 2012, , .		0
122	Brain mechanical property measurement using MRE with intrinsic activation. Physics in Medicine and Biology, 2012, 57, 7275-7287.	3.0	75
123	Importance of phase unwrapping for the reconstruction of microwave tomographic images. Biomedical Optics Express, 2011, 2, 315.	2.9	22
124	A Contrast Source Inversion Algorithm Formulated Using the Log-Phase Formulation. International Journal of Antennas and Propagation, 2011, 2011, 1-10.	1.2	7
125	Microwave tomography for bone imaging. , 2011, , .		25
126	MR-GUIDED PULSE OXIMETRY IMAGING OF BREAST IN VIVO. Journal of Innovative Optical Health Sciences, 2011, 04, 199-208.	1.0	1

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127	Implicit and explicit prior information in near-infrared spectral imaging: accuracy, quantification and diagnostic value. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4531-4557.	3.4	36
128	Importance of phase unwrapping for the reconstruction of microwave tomographic images. Biomedical Optics Express, 2011, 2, 315-30.	2.9	12
129	Comparison of no-prior and soft-prior regularization in biomedical microwave imaging. Journal of Medical Physics, 2011, 36, 159.	0.3	27
130	Contrast detection in fluid-saturated media with magnetic resonance poroelastography. Medical Physics, 2010, 37, 3518-3526.	3.0	31
131	Magnetic Resonance Poroelastography: An Algorithm for Estimating the Mechanical Properties of Fluid-Saturated Soft Tissues. IEEE Transactions on Medical Imaging, 2010, 29, 746-755.	8.9	58
132	Correction to "Review of Neurosurgical Fluorescence Imaging Methodologies". IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1847-1847.	2.9	4
133	Log transformation with Gauss-Newton microwave image reconstruction reduces incidence of local minima convergence. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	2
134	Modeling of Soft Poroelastic Tissue in Time-Harmonic MR Elastography. IEEE Transactions on Biomedical Engineering, 2009, 56, 598-608.	4.2	79
135	Near infrared optical tomography using NIRFAST: Algorithm for numerical model and image reconstruction. Communications in Numerical Methods in Engineering, 2009, 25, 711-732.	1.3	552
136	Brain-skull contact boundary conditions in an inverse computational deformation model. Medical Image Analysis, 2009, 13, 659-672.	11.6	30
137	Methodology development for three-dimensional MR-guided near infrared spectroscopy of breast tumors. Optics Express, 2008, 16, 17903.	3.4	34
138	Methodology development for three-dimensional MR-guided near infrared spectroscopy of breast tumors. Optics Express, 2008, 16, 17903-14.	3.4	22
139	Electromagnetic Breast Imaging: Results of a Pilot Study in Women with Abnormal Mammograms. Radiology, 2007, 243, 350-359.	7.3	278
140	Log transformation benefits parameter estimation in microwave tomographic imaging. Medical Physics, 2007, 34, 2014-2023.	3.0	46
141	Nonlinear Microwave Imaging for Breast-Cancer Screening Using Gauss-Newton's Method and the CGLS Inversion Algorithm. IEEE Transactions on Antennas and Propagation, 2007, 55, 2320-2331.	5.1	217
142	Initial Clinical Experience with Microwave Breast Imaging in Women with Normal Mammography. Academic Radiology, 2007, 14, 207-218.	2.5	261
143	Imaging breast adipose and fibroglandular tissue molecular signatures by using hybrid MRI-guided near-infrared spectral tomography. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8828-8833.	7.1	228
144	Image analysis methods for diffuse optical tomography. Journal of Biomedical Optics, 2006, 11, 033001.	2.6	78

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145	Microwave imaging for neoadjuvant chemotherapy monitoring. , 2006, , .		6
146	Assimilating intraoperative data with brain shift modeling using the adjoint equations. Medical Image Analysis, 2005, 9, 281-293.	11.6	48
147	Stereopsis-guided brain shift compensation. IEEE Transactions on Medical Imaging, 2005, 24, 1039-1052.	8.9	80
148	Data collection strategies and their impact on 3D microwave imaging of the breast. , 2005, , .		2
149	Spectral priors improve near-infrared diffuse tomography more than spatial priors. Optics Letters, 2005, 30, 1968.	3.3	71
150	Imaging the shear modulus of the heel fat pads. Clinical Biomechanics, 2005, 20, 312-319.	1.2	41
151	Electromagnetic Breast Imaging: Average Tissue Property Values in Women with Negative Clinical Findings. Radiology, 2004, 231, 571-580.	7.3	116
152	Magnetic resonance-guided near-infrared tomography of the breast. Review of Scientific Instruments, 2004, 75, 5262-5270.	1.3	102
153	Parallel-detection microwave spectroscopy system for breast imaging. Review of Scientific Instruments, 2004, 75, 2305-2313.	1.3	66
154	Initial in vivo experience with steady-state subzone-based MR elastography of the human breast. Journal of Magnetic Resonance Imaging, 2003, 17, 72-85.	3.4	202
155	Three-dimensional optical tomography: resolution in small-object imaging. Applied Optics, 2003, 42, 3117.	2.1	165
156	A two-stage microwave image reconstruction procedure for improved internal feature extraction. Medical Physics, 2001, 28, 2358-2369.	3.0	31
157	Modeling of Retraction and Resection for Intraoperative Updating of Images. Neurosurgery, 2001, 49, 75-85.	1.1	122
158	Three-dimensional subzone-based reconstruction algorithm for MR elastography. Magnetic Resonance in Medicine, 2001, 45, 827-837.	3.0	153
159	Magnetic resonance elastography using 3D gradient echo measurements of steady-state motion. Medical Physics, 2001, 28, 1620-1628.	3.0	96
160	Contrast-detail analysis for detection and characterization with near-infrared diffuse tomography. Medical Physics, 2000, 27, 2693-2700.	3.0	56
161	Microwave Breast Imaging with a Non-Contacting, Monopole Antenna Array. , 2000, , .		2
162	Application of Linear Circuit Models to Impedance Spectra in Irradiated Muscles. Annals of the New York Academy of Sciences, 1999, 873, 21-29.	3.8	11

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163	Model-Updated Image-Guided Neurosurgery Using the Finite Element Method: Incorporation of the Falx Cerebri. Lecture Notes in Computer Science, 1999, 1679, 900-909.	1.3	27
164	Von Neumann stability analysis of Biot's general two-dimensional theory of consolidation. International Journal for Numerical Methods in Engineering, 1998, 43, 955-974.	2.8	32
165	Initial in-vivo analysis of 3D heterogeneous brain computations for model-updated image-guided neurosurgery. Lecture Notes in Computer Science, 1998, 1496, 743-752.	1.3	18
166	Frequency-domain near-infrared photo diffusion imaging: Initial evaluation in multitarget tissuelike phantoms. Medical Physics, 1998, 25, 183-193.	3.0	31
167	Intraoperative Brain Shift and Deformation: A Quantitative Analysis of Cortical Displacement in 28 Cases. Neurosurgery, 1998, 43, 749-758.	1.1	493
168	Enhanced frequency-domain optical image reconstruction in tissues through total-variation minimization. Applied Optics, 1996, 35, 3447.	2.1	107
169	Spatially varying optical property reconstruction using a finite element diffusion equation approximation. Medical Physics, 1995, 22, 691-701.	3.0	279
170	Memory and operations count scaling of coupled finite-element and boundary-element systems of equations. International Journal for Numerical Methods in Engineering, 1992, 33, 1289-1303.	2.8	10
171	Conjugate direction methods for helmholtz problems with complex-valued wavenumbers. International Journal for Numerical Methods in Engineering, 1992, 35, 601-622.	2.8	7
172	Radiation boundary conditions for finite element solutions of generalized wave equations. International Journal for Numerical Methods in Fluids, 1991, 12, 765-783.	1.6	9
173	Numerical treatment of boundary conditions at points connecting more than two electrically distinct regions. Communications in Applied Numerical Methods, 1987, 3, 53-62.	0.5	12
174	Hybrid element method for unbounded electromagnetic problems in hyperthermia. International Journal for Numerical Methods in Engineering, 1986, 23, 1915-1937.	2.8	53