

# Thomas Edward Yankeelov

## List of Publications by Year in Descending Order

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

234  
papers

6,815  
citations

45  
h-index

71  
g-index

258  
ext. papers

8,129  
ext. citations

5  
avg, IF

5.98  
L-index

#	Paper	IF	Citations
234	A Multi-Compartment Model of Glioma Response to Fractionated Radiation Therapy Parameterized Time-Resolved Microscopy Data.. <i>Frontiers in Oncology</i> , <b>2022</b> , 12, 811415	5.3	
233	Generative adversarial network enables rapid and robust fluorescence lifetime image analysis in live cells.. <i>Communications Biology</i> , <b>2022</b> , 5, 18	6.7	3
232	Abstract P3-03-03: Quantitative multiparametric MRI predicts response to neoadjuvant therapy in the community setting. <i>Cancer Research</i> , <b>2022</b> , 82, P3-03-03-P3-03-03	10.1	
231	Quantification of long-term doxorubicin response dynamics in breast cancer cell lines to direct treatment schedules.. <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1009104	5	0
230	Associations Between Dynamic Contrast Enhanced Magnetic Resonance Imaging and Clinically Relevant Histopathological Features in Breast Cancer: A Multicenter Analysis.. <i>In Vivo</i> , <b>2022</b> , 36, 398-408 <sup>2,3</sup>		1
229	Integrating mechanism-based modeling with biomedical imaging to build practical digital twins for clinical oncology. <i>Biophysics Reviews</i> , <b>2022</b> , 3, 021304	2.6	1
228	Opportunities for improving brain cancer treatment outcomes through imaging-based mathematical modeling of the delivery of radiotherapy and immunotherapy. <i>Advanced Drug Delivery Reviews</i> , <b>2022</b> , 187, 114367	18.5	0
227	A time-resolved experimental-mathematical model for predicting the response of glioma cells to single-dose radiation therapy. <i>Integrative Biology (United Kingdom)</i> , <b>2021</b> , 13, 167-183	3.7	8
226	A time-resolved experimental-mathematical model for predicting the response of glioma cells to single-dose radiation therapy. <i>Integrative Biology (United Kingdom)</i> , <b>2021</b> , 13, 167-183	3.7	3
225	Multi-Site Concordance of Diffusion-Weighted Imaging Quantification for Assessing Prostate Cancer Aggressiveness. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> ,	5.6	2
224	Quantitative multiparametric MRI predicts response to neoadjuvant therapy in the community setting. <i>Breast Cancer Research</i> , <b>2021</b> , 23, 110	8.3	0
223	Disposable point-of-care portable perfusion phantom for quantitative DCE-MRI. <i>Medical Physics</i> , <b>2021</b> , 49, 271	4.4	0
222	RADT-14. TOWARDS IMAGE-GUIDED MODELING OF PATIENT-SPECIFIC RHENIUM-186 NANOLIPOSOME DISTRIBUTION VIA CONVECTION-ENHANCED DELIVERY FOR GLIOBLASTOMA MULTIFORME. <i>Neuro-Oncology</i> , <b>2021</b> , 23, vi44-vi44	1	
221	Bayesian calibration of a stochastic, multiscale agent-based model for predicting in vitro tumor growth. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008845	5	1
220	Longitudinal FRET Imaging of Glucose and Lactate Dynamics and Response to Therapy in Breast Cancer Cells. <i>Molecular Imaging and Biology</i> , <b>2021</b> , 1	3.8	1
219	Factors Affecting Image Quality and Lesion Evaluability in Breast Diffusion-weighted MRI: Observations from the ECOG-ACRIN Cancer Research Group Multisite Trial (A6702). <i>Journal of Breast Imaging</i> , <b>2021</b> , 3, 44-56	1	3
218	The rate of breast fibroglandular enhancement during dynamic contrast-enhanced MRI reflects response to neoadjuvant therapy. <i>European Journal of Radiology</i> , <b>2021</b> , 136, 109534	4.7	2

217	Towards an Image-Informed Mathematical Model of In Vivo Response to Fractionated Radiation Therapy. <i>Cancers</i> , <b>2021</b> , 13,	6.6	5
216	Image-based personalization of computational models for predicting response of high-grade glioma to chemoradiation. <i>Scientific Reports</i> , <b>2021</b> , 11, 8520	4.9	11
215	Patient specific, imaging-informed modeling of rhenium-186 nanoliposome delivery via convection-enhanced delivery in glioblastoma multiforme. <i>Biomedical Physics and Engineering Express</i> , <b>2021</b> , 7,	1.5	1
214	Tumor Microenvironment Alters Chemoresistance of Hepatocellular Carcinoma Through CYP3A4 Metabolic Activity. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 662135	5.3	6
213	Characterizing Errors in Pharmacokinetic Parameters from Analyzing Quantitative Abbreviated DCE-MRI Data in Breast Cancer. <i>Tomography</i> , <b>2021</b> , 7, 253-267	3.1	1
212	Biologically-Based Mathematical Modeling of Tumor Vasculature and Angiogenesis via Time-Resolved Imaging Data. <i>Cancers</i> , <b>2021</b> , 13,	6.6	5
211	An experimental-mathematical approach to predict tumor cell growth as a function of glucose availability in breast cancer cell lines. <i>PLoS ONE</i> , <b>2021</b> , 16, e0240765	3.7	4
210	Simulating the spread of COVID-19 a spatially-resolved susceptible-exposed-infected-recovered-deceased (SEIRD) model with heterogeneous diffusion. <i>Applied Mathematics Letters</i> , <b>2021</b> , 111, 106617	3.5	74
209	Mean Apparent Diffusion Coefficient Is a Sufficient Conventional Diffusion-weighted MRI Metric to Improve Breast MRI Diagnostic Performance: Results from the ECOG-ACRIN Cancer Research Group A6702 Diffusion Imaging Trial. <i>Radiology</i> , <b>2021</b> , 298, 60-70	20.5	10
208	Modeling of Glioma Growth With Mass Effect by Longitudinal Magnetic Resonance Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 3713-3724	5	6
207	Math, magnets, and medicine: enabling personalized oncology. <i>Expert Review of Precision Medicine and Drug Development</i> , <b>2021</b> , 6, 79-81	1.6	3
206	Quantitative magnetic resonance imaging and tumor forecasting of breast cancer patients in the community setting. <i>Nature Protocols</i> , <b>2021</b> , 16, 5309-5338	18.8	3
205	An in silico validation framework for quantitative DCE-MRI techniques based on a dynamic digital phantom. <i>Medical Image Analysis</i> , <b>2021</b> , 73, 102186	15.4	1
204	Integrating Quantitative Assays with Biologically Based Mathematical Modeling for Predictive Oncology. <i>IScience</i> , <b>2020</b> , 23, 101807	6.1	8
203	Optimal Control Theory for Personalized Therapeutic Regimens in Oncology: Background, History, Challenges, and Opportunities. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	17
202	The Influence of Chronic Liver Diseases on Hepatic Vasculature: A Liver-on-a-chip Review. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	10
201	Imaging for Response Assessment in Cancer Clinical Trials. <i>Seminars in Nuclear Medicine</i> , <b>2020</b> , 50, 488-504	9.4	8
200	A Coupled Mass Transport and Deformation Theory of Multi-constituent Tumor Growth. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2020</b> , 139, 103936-103936	5	11

199	In vitro vascularized tumor platform for modeling tumor-vasculature interactions of inflammatory breast cancer. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3572-3590	4.9	6
198	Multiparametric Analysis of Longitudinal Quantitative MRI data to Identify Distinct Tumor Habitats in Preclinical Models of Breast Cancer. <i>Cancers</i> , <b>2020</b> , 12,	6.6	8
197	Digital Receptor Occupancy Assay in Quantifying On- and Off-Target Binding Affinities of Therapeutic Antibodies. <i>ACS Sensors</i> , <b>2020</b> , 5, 296-302	9.2	1
196	Patient-Specific Characterization of Breast Cancer Hemodynamics Using Image-Guided Computational Fluid Dynamics. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2760-2771	11.7	13
195	Forecasting tumor and vasculature response dynamics to radiation therapy via image based mathematical modeling. <i>Radiation Oncology</i> , <b>2020</b> , 15, 4	4.2	18
194	Anti-HER2 induced myeloid cell alterations correspond with increasing vascular maturation in a murine model of HER2+ breast cancer. <i>BMC Cancer</i> , <b>2020</b> , 20, 359	4.8	6
193	A hybrid model of tumor growth and angiogenesis: In silico experiments. <i>PLoS ONE</i> , <b>2020</b> , 15, e0231137	3.7	20
192	Abstract P2-16-17: Optimizing neoadjuvant regimens for individual breast cancer patients generated by a mathematical model utilizing quantitative magnetic resonance imaging data: Preliminary results <b>2020</b> ,		3
191	Co-Clinical Imaging Resource Program (CIRP): Bridging the Translational Divide to Advance Precision Medicine. <i>Tomography</i> , <b>2020</b> , 6, 273-287	3.1	8
190	Quantitative Comparison of Prone and Supine PERCIST Measurements in Breast Cancer. <i>Tomography</i> , <b>2020</b> , 6, 170-176	3.1	1
189	Evaluating the Use of rCBV as a Tumor Grade and Treatment Response Classifier Across NCI Quantitative Imaging Network Sites: Part II of the DSC-MRI Digital Reference Object (DRO) Challenge. <i>Tomography</i> , <b>2020</b> , 6, 203-208	3.1	4
188	Integrating transcriptomics and bulk time course data into a mathematical framework to describe and predict therapeutic resistance in cancer. <i>Physical Biology</i> , <b>2020</b> , 18, 016001	3	8
187	Reply to Appropriate considerations of "rural" in National Cancer Data Base analyses. <i>Cancer</i> , <b>2020</b> , 126, 1586-1587	6.4	
186	Evaluating patient-specific neoadjuvant regimens for breast cancer via a mathematical model constrained by quantitative magnetic resonance imaging data. <i>Neoplasia</i> , <b>2020</b> , 22, 820-830	6.4	13
185	CD4 T-cell immune stimulation of HER2 + breast cancer cells alters response to trastuzumab in vitro. <i>Cancer Cell International</i> , <b>2020</b> , 20, 544	6.4	0
184	Diffusion-reaction compartmental models formulated in a continuum mechanics framework: application to COVID-19, mathematical analysis, and numerical study. <i>Computational Mechanics</i> , <b>2020</b> , 66, 1-22	4	32
183	Towards integration of Cu-DOTA-trastuzumab PET-CT and MRI with mathematical modeling to predict response to neoadjuvant therapy in HER2 + breast cancer. <i>Scientific Reports</i> , <b>2020</b> , 10, 20518	4.9	11
182	Experimentally-driven mathematical modeling to improve combination targeted and cytotoxic therapy for HER2+ breast cancer. <i>Scientific Reports</i> , <b>2019</b> , 9, 12830	4.9	16

181	Measuring DNA Hybridization Kinetics in Live Cells Using a Time-Resolved 3D Single-Molecule Tracking Method. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15747-15750	16.4	8
180	The 2019 mathematical oncology roadmap. <i>Physical Biology</i> , <b>2019</b> , 16, 041005	3	78
179	Assessing metastatic potential of breast cancer cells based on EGFR dynamics. <i>Scientific Reports</i> , <b>2019</b> , 9, 3395	4.9	27
178	Calibrating a Predictive Model of Tumor Growth and Angiogenesis with Quantitative MRI. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 1539-1551	4.7	24
177	Translating preclinical MRI methods to clinical oncology. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 1377-1392	5.6	19
176	An adjoint-based method for a linear mechanically-coupled tumor model: Application to estimate the spatial variation of murine glioma growth based on diffusion weighted magnetic resonance imaging. <i>Computational Mechanics</i> , <b>2019</b> , 63, 159-180	4	4
175	Leveraging Mathematical Modeling to Quantify Pharmacokinetic and Pharmacodynamic Pathways: Equivalent Dose Metric. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 616	4.6	4
174	Recent trends in the age at diagnosis of colorectal cancer in the US National Cancer Data Base, 2004-2015. <i>Cancer</i> , <b>2019</b> , 125, 3828-3835	6.4	38
173	Magnetization Transfer MRI of Breast Cancer in the Community Setting: Reproducibility and Preliminary Results in Neoadjuvant Therapy. <i>Tomography</i> , <b>2019</b> , 5, 44-52	3.1	7
172	The Impact of Arterial Input Function Determination Variations on Prostate Dynamic Contrast-Enhanced Magnetic Resonance Imaging Pharmacokinetic Modeling: A Multicenter Data Analysis Challenge, Part II. <i>Tomography</i> , <b>2019</b> , 5, 99-109	3.1	5
171	Evaluating Multisite rCBV Consistency from DSC-MRI Imaging Protocols and Postprocessing Software Across the NCI Quantitative Imaging Network Sites Using a Digital Reference Object (DRO). <i>Tomography</i> , <b>2019</b> , 5, 110-117	3.1	14
170	Integrating quantitative imaging and computational modeling to predict the spatiotemporal distribution of <sup>186</sup> Re nanoliposomes for recurrent glioblastoma treatment <b>2019</b> ,		1
169	Mechanism-Based Modeling of Tumor Growth and Treatment Response Constrained by Multiparametric Imaging Data. <i>JCO Clinical Cancer Informatics</i> , <b>2019</b> , 3, 1-10	5.2	16
168	Spatial EGFR Dynamics and Metastatic Phenotypes Modulated by Upregulated EphB2 and Src Pathways in Advanced Prostate Cancer. <i>Cancers</i> , <b>2019</b> , 11,	6.6	7
167	The effects of IKK-beta inhibition on early NF-kappa-B activation and transcription of downstream genes. <i>Cellular Signalling</i> , <b>2019</b> , 55, 17-25	4.9	15
166	Characterizing Trastuzumab-Induced Alterations in Intratumoral Heterogeneity with Quantitative Imaging and Immunohistochemistry in HER2+ Breast Cancer. <i>Neoplasia</i> , <b>2019</b> , 21, 17-29	6.4	13
165	In vitro vascularized liver and tumor tissue microenvironments on a chip for dynamic determination of nanoparticle transport and toxicity. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 1201-1219	4.9	30
164	Quantitative analysis of vascular properties derived from ultrafast DCE-MRI to discriminate malignant and benign breast tumors. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 2147-2160	4.4	26

163	Mathematical modelling of trastuzumab-induced immune response in an in vivo murine model of HER2+ breast cancer. <i>Mathematical Medicine and Biology</i> , <b>2019</b> , 36, 381-410	1.3	13
162	Variable Cell Line Pharmacokinetics Contribute to Non-Linear Treatment Response in Heterogeneous Cell Populations. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 899-911	4.7	3
161	Precision Medicine with Imprecise Therapy: Computational Modeling for Chemotherapy in Breast Cancer. <i>Translational Oncology</i> , <b>2018</b> , 11, 732-742	4.9	24
160	Repeatability, reproducibility, and accuracy of quantitative mri of the breast in the community radiology setting. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 48, 695	5.6	28
159	Mechanically Coupled Reaction-Diffusion Model to Predict Glioma Growth: Methodological Details. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1711, 225-241	1.4	21
158	Biophysical Modeling of In Vivo Glioma Response After Whole-Brain Radiation Therapy in a Murine Model of Brain Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2018</b> , 100, 1270-1279 <sup>4</sup>		19
157	Dual Src and EGFR inhibition in combination with gemcitabine in advanced pancreatic cancer: phase I results : A phase I clinical trial. <i>Investigational New Drugs</i> , <b>2018</b> , 36, 442-450	4.3	13
156	Incorporating drug delivery into an imaging-driven, mechanics-coupled reaction diffusion model for predicting the response of breast cancer to neoadjuvant chemotherapy: theory and preliminary clinical results. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 105015	3.8	24
155	Multisite concordance of apparent diffusion coefficient measurements across the NCI Quantitative Imaging Network. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 011003	2.6	16
154	Dynamic contrast-enhanced magnetic resonance imaging and diffusion-weighted magnetic resonance imaging for predicting the response of locally advanced breast cancer to neoadjuvant therapy: a meta-analysis. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 011011	2.6	10
153	Combining multiparametric MRI with receptor information to optimize prediction of pathologic response to neoadjuvant therapy in breast cancer: preliminary results. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 011015	2.6	4
152	Distinguishing benign and malignant breast tumors: preliminary comparison of kinetic modeling approaches using multi-institutional dynamic contrast-enhanced MRI data from the International Breast MR Consortium 6883 trial. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 011019	2.6	8
151	Toward uniform implementation of parametric map Digital Imaging and Communication in Medicine standard in multisite quantitative diffusion imaging studies. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 011006	2.6	4
150	A HYBRID THREE-SCALE MODEL OF TUMOR GROWTH. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2018</b> , 28, 61-93	3.5	24
149	The effects of intravoxel contrast agent diffusion on the analysis of DCE-MRI data in realistic tissue domains. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 330-340	4.4	4
148	Mathematical models of tumor cell proliferation: A review of the literature. <i>Expert Review of Anticancer Therapy</i> , <b>2018</b> , 18, 1271-1286	3.5	47
147	A multi-state model of chemoresistance to characterize phenotypic dynamics in breast cancer. <i>Scientific Reports</i> , <b>2018</b> , 8, 12058	4.9	13
146	Accuracy, repeatability, and interplatform reproducibility of T quantification methods used for DCE-MRI: Results from a multicenter phantom study. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2564-2575 <sup>4</sup>	4.4	48

145	A mechanically coupled reaction-diffusion model that incorporates intra-tumoural heterogeneity to predict glioma growth. <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,	4.1	43
144	A fully coupled space-time multiscale modeling framework for predicting tumor growth. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2017</b> , 320, 261-286	5.7	29
143	CCR7 Modulates the Generation of Thymic Regulatory T Cells by Altering the Composition of the Thymic Dendritic Cell Compartment. <i>Cell Reports</i> , <b>2017</b> , 21, 168-180	10.6	25
142	Selection and Validation of Predictive Models of Radiation Effects on Tumor Growth Based on Noninvasive Imaging Data. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2017</b> , 327, 277-305	5.7	42
141	Imaging Considerations and Interprofessional Opportunities in the Care of Breast Cancer Patients in the Neoadjuvant Setting. <i>Seminars in Oncology Nursing</i> , <b>2017</b> , 33, 425-439	3.7	2
140	A Multi-Institutional Comparison of Dynamic Contrast-Enhanced Magnetic Resonance Imaging Parameter Calculations. <i>Scientific Reports</i> , <b>2017</b> , 7, 11185	4.9	21
139	DCE- and DW-MRI as early imaging biomarkers of treatment response in a preclinical model of triple negative breast cancer. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3799	4.4	12
138	A Predictive Mathematical Modeling Approach for the Study of Doxorubicin Treatment in Triple Negative Breast Cancer. <i>Scientific Reports</i> , <b>2017</b> , 7, 5725	4.9	21
137	Quantitative [F]FMISO PET Imaging Shows Reduction of Hypoxia Following Trastuzumab in a Murine Model of HER2+ Breast Cancer. <i>Molecular Imaging and Biology</i> , <b>2017</b> , 19, 130-137	3.8	15
136	Three-dimensional Image-based Mechanical Modeling for Predicting the Response of Breast Cancer to Neoadjuvant Therapy. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2017</b> , 314, 494-512	5.7	40
135	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , <b>2017</b> , 14, 169-186	19.4	532
134	ANGI-08. PREDICTING IN VIVO TUMOR GROWTH AND ANGIOGENESIS WITH AN MRI CALIBRATED BIOPHYSICAL MODEL. <i>Neuro-Oncology</i> , <b>2017</b> , 19, vi23-vi23	1	4
133	Quantitative Evaluation of Temporal Regularizers in Compressed Sensing Dynamic Contrast Enhanced MRI of the Breast. <i>International Journal of Biomedical Imaging</i> , <b>2017</b> , 2017, 7835749	5.2	7
132	Assessment of a simplified spin and gradient echo (sSAGE) approach for human brain tumor perfusion imaging. <i>Magnetic Resonance Imaging</i> , <b>2016</b> , 34, 1248-1255	3.3	12
131	Towards real-time topical detection and characterization of FDG dose infiltration prior to PET imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2016</b> , 43, 2374-2380	8.8	14
130	Demonstration of nonlinearity bias in the measurement of the apparent diffusion coefficient in multicenter trials. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1312-23	4.4	50
129	Trastuzumab improves tumor perfusion and vascular delivery of cytotoxic therapy in a murine model of HER2+ breast cancer: preliminary results. <i>Breast Cancer Research and Treatment</i> , <b>2016</b> , 155, 273-84	4.4	22
128	Quantitative Imaging in Cancer Clinical Trials. <i>Clinical Cancer Research</i> , <b>2016</b> , 22, 284-90	12.9	85

127	MR Imaging Biomarkers in Oncology Clinical Trials. <i>Magnetic Resonance Imaging Clinics of North America</i> , <b>2016</b> , 24, 11-29	1.6	25
126	The Impact of Arterial Input Function Determination Variations on Prostate Dynamic Contrast-Enhanced Magnetic Resonance Imaging Pharmacokinetic Modeling: A Multicenter Data Analysis Challenge. <i>Tomography</i> , <b>2016</b> , 2, 56-66	3.1	51
125	Bloch-Siegert -Mapping Improves Accuracy and Precision of Longitudinal Relaxation Measurements in the Breast at 3 T. <i>Tomography</i> , <b>2016</b> , 2, 250-259	3.1	10
124	Quantitative Magnetization Transfer Imaging of the Breast at 3.0 T: Reproducibility in Healthy Volunteers. <i>Tomography</i> , <b>2016</b> , 2, 260-266	3.1	10
123	QIN DAWG Validation of Gradient Nonlinearity Bias Correction Workflow for Quantitative Diffusion-Weighted Imaging in Multicenter Trials. <i>Tomography</i> , <b>2016</b> , 2, 396-405	3.1	10
122	Accrual Patterns for Clinical Studies Involving Quantitative Imaging: Results of an NCI Quantitative Imaging Network (QIN) Survey. <i>Tomography</i> , <b>2016</b> , 2, 276-282	3.1	1
121	Multi-scale Modeling in Clinical Oncology: Opportunities and Barriers to Success. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 2626-41	4.7	48
120	Phase I trial of vorinostat added to chemoradiation with capecitabine in pancreatic cancer. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 119, 312-8	5.3	38
119	Predicting response before initiation of neoadjuvant chemotherapy in breast cancer using new methods for the analysis of dynamic contrast enhanced MRI (DCE MRI) data <b>2016</b> ,		2
118	Selection, calibration, and validation of models of tumor growth. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2016</b> , 26, 2341-2368	3.5	47
117	Prone Versus Supine Breast FDG-PET/CT for Assessing Locoregional Disease Distribution in Locally Advanced Breast Cancer. <i>Academic Radiology</i> , <b>2015</b> , 22, 853-9	4.3	8
116	Comparison of prone versus supine 18F-FDG-PET of locally advanced breast cancer: Phantom and preliminary clinical studies. <i>Medical Physics</i> , <b>2015</b> , 42, 3801-13	4.4	6
115	Realization of a biomechanical model-assisted image guidance system for breast cancer surgery using supine MRI. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2015</b> , 10, 1985-96	3.9	16
114	Utility of [18 F]FLT-PET to assess treatment response in trastuzumab-resistant and trastuzumab-sensitive HER2-overexpressing human breast cancer xenografts. <i>Molecular Imaging and Biology</i> , <b>2015</b> , 17, 119-28	3.8	9
113	Optimization of 7-T chemical exchange saturation transfer parameters for validation of glycosaminoglycan and amide proton transfer of fibroglandular breast tissue. <i>Radiology</i> , <b>2015</b> , 275, 255-61	20.5	27
112	Multiparametric magnetic resonance imaging for predicting pathological response after the first cycle of neoadjuvant chemotherapy in breast cancer. <i>Investigative Radiology</i> , <b>2015</b> , 50, 195-204	10.1	99
111	Predicting the Response of Breast Cancer to Neoadjuvant Therapy Using a Mechanically Coupled Reaction-Diffusion Model. <i>Cancer Research</i> , <b>2015</b> , 75, 4697-707	10.1	67
110	Clinical utility of quantitative imaging. <i>Academic Radiology</i> , <b>2015</b> , 22, 33-49	4.3	53



109	Methods and challenges in quantitative imaging biomarker development. <i>Academic Radiology</i> , <b>2015</b> , 22, 25-32	4.3	58
108	Correlation of tumor characteristics derived from DCE-MRI and DW-MRI with histology in murine models of breast cancer. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 1345-56	4.4	29
107	Detection of microcalcifications by characteristic magnetic susceptibility effects using MR phase image cross-correlation analysis. <i>Medical Physics</i> , <b>2015</b> , 42, 1436-52	4.4	8
106	Development of a diaphragmatic motion-based elastography framework for assessment of liver stiffness <b>2015</b> ,		1
105	Predicting in vivo glioma growth with the reaction diffusion equation constrained by quantitative magnetic resonance imaging data. <i>Physical Biology</i> , <b>2015</b> , 12, 046006	3	35
104	Assessing the accuracy and reproducibility of modality independent elastography in a murine model of breast cancer. <i>Journal of Medical Imaging</i> , <b>2015</b> , 2, 036001	2.6	6
103	Detection of breast cancer microcalcification using (99m)Tc-MDP SPECT or Osteosense 750EX FMT imaging. <i>Nuclear Medicine and Biology</i> , <b>2015</b> , 42, 269-73	2.1	6
102	Toward a science of tumor forecasting for clinical oncology. <i>Cancer Research</i> , <b>2015</b> , 75, 918-23	10.1	54
101	DCEMRI.jl: a fast, validated, open source toolkit for dynamic contrast enhanced MRI analysis. <i>PeerJ</i> , <b>2015</b> , 3, e909	3.1	20
100	An Approach to Breast Cancer Diagnosis via PET Imaging of Microcalcifications Using (18)F-NaF. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 1138-43	8.9	19
99	A comparison of individual and population-derived vascular input functions for quantitative DCE-MRI in rats. <i>Magnetic Resonance Imaging</i> , <b>2014</b> , 32, 397-401	3.3	11
98	Errors in Quantitative Image Analysis due to Platform-Dependent Image Scaling. <i>Translational Oncology</i> , <b>2014</b> , 7, 65-71	4.9	44
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4	Integrating multimodal data sets into a mathematical framework to describe and predict therapeutic resistance in cancer		2
3	Deep learning enables rapid and robust analysis of fluorescence lifetime imaging in photon-starved conditions <sup>2</sup>		
2	Quantification of long-term doxorubicin response dynamics in breast cancer cell lines to direct treatment schedules		1

- 1 Towards integration of time-resolved confocal microscopy of a 3D in vitro microfluidic platform with a hybrid multiscale model of tumor angiogenesis

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