

Thomas Edward Yankeelov

List of Publications by Citations

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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	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , 2017 , 14, 169-186	19.4	532
233	Dynamic Contrast Enhanced Magnetic Resonance Imaging in Oncology: Theory, Data Acquisition, Analysis, and Examples. <i>Current Medical Imaging</i> , 2009 , 3, 91-107	1.2	273
232	Integration of quantitative DCE-MRI and ADC mapping to monitor treatment response in human breast cancer: initial results. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 1-13	3.3	259
231	Quantitative pharmacokinetic analysis of DCE-MRI data without an arterial input function: a reference region model. <i>Magnetic Resonance Imaging</i> , 2005 , 23, 519-29	3.3	226
230	Variation of the relaxographic "shutter-speed" for transcytolemmal water exchange affects the CR bolus-tracking curve shape. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 1151-69	4.4	155
229	Integrating spatially resolved three-dimensional MALDI IMS with in vivo magnetic resonance imaging. <i>Nature Methods</i> , 2008 , 5, 57-9	21.6	132
228	Amide proton transfer imaging of the breast at 3 T: establishing reproducibility and possible feasibility assessing chemotherapy response. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 216-24	4.4	118
227	Characterization of tissue structure at varying length scales using temporal diffusion spectroscopy. <i>NMR in Biomedicine</i> , 2010 , 23, 745-56	4.4	111
226	Clinically relevant modeling of tumor growth and treatment response. <i>Science Translational Medicine</i> , 2013 , 5, 187ps9	17.5	110
225	Multiparametric magnetic resonance imaging for predicting pathological response after the first cycle of neoadjuvant chemotherapy in breast cancer. <i>Investigative Radiology</i> , 2015 , 50, 195-204	10.1	99
224	Variations of dynamic contrast-enhanced magnetic resonance imaging in evaluation of breast cancer therapy response: a multicenter data analysis challenge. <i>Translational Oncology</i> , 2014 , 7, 153-66	4.9	93
223	Quantitative Imaging in Cancer Clinical Trials. <i>Clinical Cancer Research</i> , 2016 , 22, 284-90	12.9	85
222	DCE-MRI analysis methods for predicting the response of breast cancer to neoadjuvant chemotherapy: pilot study findings. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1592-602	4.4	83
221	Quantitative multimodality imaging in cancer research and therapy. <i>Nature Reviews Clinical Oncology</i> , 2014 , 11, 670-80	19.4	82
220	Simultaneous measurement of arterial input function and tumor pharmacokinetics in mice by dynamic contrast enhanced imaging: effects of transcytolemmal water exchange. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 248-57	4.4	81
219	Evidence for shutter-speed variation in CR bolus-tracking studies of human pathology. <i>NMR in Biomedicine</i> , 2005 , 18, 173-85	4.4	81
218	The 2019 mathematical oncology roadmap. <i>Physical Biology</i> , 2019 , 16, 041005	3	78

217	Comparison of a reference region model with direct measurement of an AIF in the analysis of DCE-MRI data. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 353-61	4.4	77
216	Magnetic resonance in the era of molecular imaging of cancer. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 587-600	3.3	76
215	Simulating the spread of COVID-19 a spatially-resolved susceptible-exposed-infected-recovered-deceased (SEIRD) model with heterogeneous diffusion. <i>Applied Mathematics Letters</i> , 2021 , 111, 106617	3.5	74
214	Predicting the Response of Breast Cancer to Neoadjuvant Therapy Using a Mechanically Coupled Reaction-Diffusion Model. <i>Cancer Research</i> , 2015 , 75, 4697-707	10.1	67
213	alpha2beta1 integrin expression in the tumor microenvironment enhances tumor angiogenesis in a tumor cell-specific manner. <i>Blood</i> , 2008 , 111, 1980-8	2.2	66
212	Shutter-speed analysis of contrast reagent bolus-tracking data: Preliminary observations in benign and malignant breast disease. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 724-9	4.4	60
211	Simultaneous PET-MRI in oncology: a solution looking for a problem?. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1342-56	3.3	59
210	Practical dynamic contrast enhanced MRI in small animal models of cancer: data acquisition, data analysis, and interpretation. <i>Pharmaceutics</i> , 2012 , 4, 442-78	6.4	59
209	Methods and challenges in quantitative imaging biomarker development. <i>Academic Radiology</i> , 2015 , 22, 25-32	4.3	58
208	Early assessment of breast cancer response to neoadjuvant chemotherapy by semi-quantitative analysis of high-temporal resolution DCE-MRI: preliminary results. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 1457-64	3.3	56
207	Parameterizing the Logistic Model of Tumor Growth by DW-MRI and DCE-MRI Data to Predict Treatment Response and Changes in Breast Cancer Cellularity during Neoadjuvant Chemotherapy. <i>Translational Oncology</i> , 2013 , 6, 256-64	4.9	54
206	Toward a science of tumor forecasting for clinical oncology. <i>Cancer Research</i> , 2015 , 75, 918-23	10.1	54
205	Clinical utility of quantitative imaging. <i>Academic Radiology</i> , 2015 , 22, 33-49	4.3	53
204	Amide proton transfer imaging of the human breast at 7T: development and reproducibility. <i>NMR in Biomedicine</i> , 2013 , 26, 1271-7	4.4	53
203	A novel AIF tracking method and comparison of DCE-MRI parameters using individual and population-based AIFs in human breast cancer. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5753-69	3.8	53
202	Repeatability of a reference region model for analysis of murine DCE-MRI data at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 1140-7	5.6	53
201	New insights into tumor microstructure using temporal diffusion spectroscopy. <i>Cancer Research</i> , 2008 , 68, 5941-7	10.1	51
200	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> , 2016 , 2, 56-66	3.1	51

199	Demonstration of nonlinearity bias in the measurement of the apparent diffusion coefficient in multicenter trials. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1312-23	4.4	50
198	Measuring tumor perfusion in control and treated murine tumors: correlation of microbubble contrast-enhanced sonography to dynamic contrast-enhanced magnetic resonance imaging and fluorodeoxyglucose positron emission tomography. <i>Journal of Ultrasound in Medicine</i> , 2007 , 26, 749-56	2.9	50
197	A nonrigid registration algorithm for longitudinal breast MR images and the analysis of breast tumor response. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 1258-70	3.3	49
196	Real-Time Compressive Sensing MRI Reconstruction Using GPU Computing and Split Bregman Methods. <i>International Journal of Biomedical Imaging</i> , 2012 , 2012, 864827	5.2	48
195	Multi-scale Modeling in Clinical Oncology: Opportunities and Barriers to Success. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2626-41	4.7	48
194	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> , 2018 , 79, 2564-2574	4.4	48
193	Selection, calibration, and validation of models of tumor growth. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016 , 26, 2341-2368	3.5	47
192	Mathematical models of tumor cell proliferation: A review of the literature. <i>Expert Review of Anticancer Therapy</i> , 2018 , 18, 1271-1286	3.5	47
191	A mechanically coupled reaction-diffusion model for predicting the response of breast tumors to neoadjuvant chemotherapy. <i>Physics in Medicine and Biology</i> , 2013 , 58, 5851-66	3.8	46
190	A quantitative comparison of the influence of individual versus population-derived vascular input functions on dynamic contrast enhanced-MRI in small animals. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 226-36	4.4	45
189	Multi-parametric MRI characterization of inflammation in murine skeletal muscle. <i>NMR in Biomedicine</i> , 2014 , 27, 716-25	4.4	45
188	Comparison of dual-echo DSC-MRI- and DCE-MRI-derived contrast agent kinetic parameters. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 944-53	3.3	45
187	Errors in Quantitative Image Analysis due to Platform-Dependent Image Scaling. <i>Translational Oncology</i> , 2014 , 7, 65-71	4.9	44
186	High relaxivity MRI imaging reagents from bimodal star polymers. <i>Polymer Chemistry</i> , 2012 , 3, 390-398	4.9	44
185	A mechanically coupled reaction-diffusion model that incorporates intra-tumoural heterogeneity to predict glioma growth. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	43
184	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> , 2017 , 327, 277-305	5.7	42
183	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> , 2017 , 314, 494-512	5.7	40
182	Incorporating contrast agent diffusion into the analysis of DCE-MRI data. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 1124-34	4.4	39

181	Recent trends in the age at diagnosis of colorectal cancer in the US National Cancer Data Base, 2004-2015. <i>Cancer</i> , 2019 , 125, 3828-3835	6.4	38
180	Phase I trial of vorinostat added to chemoradiation with capecitabine in pancreatic cancer. <i>Radiotherapy and Oncology</i> , 2016 , 119, 312-8	5.3	38
179	Earlier detection of tumor treatment response using magnetic resonance diffusion imaging with oscillating gradients. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 315-23	3.3	37
178	Quantitative effects of using compressed sensing in dynamic contrast enhanced MRI. <i>Physics in Medicine and Biology</i> , 2011 , 56, 4933-46	3.8	36
177	Incorporating the effects of transcytolemmal water exchange in a reference region model for DCE-MRI analysis: theory, simulations, and experimental results. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 326-35	4.4	36
176	Predicting in vivo glioma growth with the reaction diffusion equation constrained by quantitative magnetic resonance imaging data. <i>Physical Biology</i> , 2015 , 12, 046006	3	35
175	Comparisons of the efficacy of a Jak1/2 inhibitor (AZD1480) with a VEGF signaling inhibitor (cediranib) and sham treatments in mouse tumors using DCE-MRI, DW-MRI, and histology. <i>Neoplasia</i> , 2012 , 14, 54-64	6.4	35
174	Integration of diffusion-weighted MRI data and a simple mathematical model to predict breast tumor cellularity during neoadjuvant chemotherapy. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1689-96	4.4	34
173	The integration of quantitative multi-modality imaging data into mathematical models of tumors. <i>Physics in Medicine and Biology</i> , 2010 , 55, 2429-49	3.8	34
172	Correlation between estimates of tumor perfusion from microbubble contrast-enhanced sonography and dynamic contrast-enhanced magnetic resonance imaging. <i>Journal of Ultrasound in Medicine</i> , 2006 , 25, 487-97	2.9	34
171	Statistical comparison of dynamic contrast-enhanced MRI pharmacokinetic models in human breast cancer. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 261-71	4.4	33
170	A comparison of two methods for estimating DCE-MRI parameters via individual and cohort based AIFs in prostate cancer: a step towards practical implementation. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 321-9	3.3	32
169	Diffusion-reaction compartmental models formulated in a continuum mechanics framework: application to COVID-19, mathematical analysis, and numerical study. <i>Computational Mechanics</i> , 2020 , 66, 1-22	4	32
168	Machine learning for predicting the response of breast cancer to neoadjuvant chemotherapy. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013 , 20, 688-95	8.6	31
167	The role of magnetic resonance imaging biomarkers in clinical trials of treatment response in cancer. <i>Seminars in Oncology</i> , 2011 , 38, 16-25	5.5	31
166	Temporal sampling requirements for reference region modeling of DCE-MRI data in human breast cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 121-34	5.6	31
165	Analyzing Spatial Heterogeneity in DCE- and DW-MRI Parametric Maps to Optimize Prediction of Pathologic Response to Neoadjuvant Chemotherapy in Breast Cancer. <i>Translational Oncology</i> , 2014 , 7, 14-22	4.9	30
164	On the relationship between the apparent diffusion coefficient and extravascular extracellular volume fraction in human breast cancer. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 630-8	3.3	30

163	In vitro vascularized liver and tumor tissue microenvironments on a chip for dynamic determination of nanoparticle transport and toxicity. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 1201-1219	4.9	30
162	A fully coupled space-time multiscale modeling framework for predicting tumor growth. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 320, 261-286	5.7	29
161	Correlation of tumor characteristics derived from DCE-MRI and DW-MRI with histology in murine models of breast cancer. <i>NMR in Biomedicine</i> , 2015 , 28, 1345-56	4.4	29
160	Assessing reproducibility of diffusion-weighted magnetic resonance imaging studies in a murine model of HER2+ breast cancer. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 245-9	3.3	29
159	Repeatability, reproducibility, and accuracy of quantitative mri of the breast in the community radiology setting. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 695	5.6	28
158	Sonographic depiction of microvessel perfusion: principles and potential. <i>Journal of Ultrasound in Medicine</i> , 2004 , 23, 1499-506	2.9	28
157	Assessing metastatic potential of breast cancer cells based on EGFR dynamics. <i>Scientific Reports</i> , 2019 , 9, 3395	4.9	27
156	Optimization of 7-T chemical exchange saturation transfer parameters for validation of glycosaminoglycan and amide proton transfer of fibroglandular breast tissue. <i>Radiology</i> , 2015 , 275, 255-61	29.5	27
155	Motion correction in diffusion-weighted MRI of the breast at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 1063-70	5.6	27
154	Current and future trends in magnetic resonance imaging assessments of the response of breast tumors to neoadjuvant chemotherapy. <i>Journal of Oncology</i> , 2010 , 2010,	4.5	27
153	Automatic nonrigid registration of whole body CT mice images. <i>Medical Physics</i> , 2008 , 35, 1507-20	4.4	27
152	Quantitative analysis of vascular properties derived from ultrafast DCE-MRI to discriminate malignant and benign breast tumors. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2147-2160	4.4	26
151	CCR7 Modulates the Generation of Thymic Regulatory T Cells by Altering the Composition of the Thymic Dendritic Cell Compartment. <i>Cell Reports</i> , 2017 , 21, 168-180	10.6	25
150	MR Imaging Biomarkers in Oncology Clinical Trials. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2016 , 24, 11-29	1.6	25
149	Calibrating a Predictive Model of Tumor Growth and Angiogenesis with Quantitative MRI. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 1539-1551	4.7	24
148	Precision Medicine with Imprecise Therapy: Computational Modeling for Chemotherapy in Breast Cancer. <i>Translational Oncology</i> , 2018 , 11, 732-742	4.9	24
147	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> , 2018 , 63, 105015	3.8	24
146	Noninvasive assessment of tumor vasculature response to radiation-mediated, vasculature-targeted therapy using quantified power Doppler sonography: implications for improvement of therapy schedules. <i>Journal of Ultrasound in Medicine</i> , 2006 , 25, 1507-17	2.9	24

145	A HYBRID THREE-SCALE MODEL OF TUMOR GROWTH. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018 , 28, 61-93	3.5	24
144	Evaluating treatment response using DW-MRI and DCE-MRI in trastuzumab responsive and resistant HER2-overexpressing human breast cancer xenografts. <i>Translational Oncology</i> , 2014 , 7, 768-794	4.9	23
143	Molecular imaging without radiopharmaceuticals?. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 999-1007	8.9	23
142	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> , 2016 , 155, 273-84	4.4	22
141	Co-registration of multi-modality imaging allows for comprehensive analysis of tumor-induced bone disease. <i>Bone</i> , 2014 , 61, 208-16	4.7	22
140	Mechanically Coupled Reaction-Diffusion Model to Predict Glioma Growth: Methodological Details. <i>Methods in Molecular Biology</i> , 2018 , 1711, 225-241	1.4	21
139	Assessing the reproducibility of dynamic contrast enhanced magnetic resonance imaging in a murine model of breast cancer. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1721-34	4.4	21
138	A Multi-Institutional Comparison of Dynamic Contrast-Enhanced Magnetic Resonance Imaging Parameter Calculations. <i>Scientific Reports</i> , 2017 , 7, 11185	4.9	21
137	A Predictive Mathematical Modeling Approach for the Study of Doxorubicin Treatment in Triple Negative Breast Cancer. <i>Scientific Reports</i> , 2017 , 7, 5725	4.9	21
136	A method for assessing the microvasculature in a murine tumor model using contrast-enhanced ultrasonography. <i>Journal of Ultrasound in Medicine</i> , 2008 , 27, 1699-709	2.9	21
135	A hybrid model of tumor growth and angiogenesis: In silico experiments. <i>PLoS ONE</i> , 2020 , 15, e0231137	3.7	20
134	Arterial input functions determined from MR signal magnitude and phase for quantitative dynamic contrast-enhanced MRI in the human pelvis. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 498-504	4.4	20
133	DCEMRI.jl: a fast, validated, open source toolkit for dynamic contrast enhanced MRI analysis. <i>PeerJ</i> , 2015 , 3, e909	3.1	20
132	Translating preclinical MRI methods to clinical oncology. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 1377-1392	5.6	19
131	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> , 2018 , 100, 1270-1279	4	19
130	An Approach to Breast Cancer Diagnosis via PET Imaging of Microcalcifications Using (18)F-NaF. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 1138-43	8.9	19
129	Forecasting tumor and vasculature response dynamics to radiation therapy via image based mathematical modeling. <i>Radiation Oncology</i> , 2020 , 15, 4	4.2	18
128	Current and emerging quantitative magnetic resonance imaging methods for assessing and predicting the response of breast cancer to neoadjuvant therapy. <i>Breast Cancer: Targets and Therapy</i> , 2012 , 2012, 139-154	3.9	18

127	Optimal Control Theory for Personalized Therapeutic Regimens in Oncology: Background, History, Challenges, and Opportunities. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	17
126	Robustness of quantitative compressive sensing MRI: the effect of random undersampling patterns on derived parameters for DCE- and DSC-MRI. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 504-11	11.7	17
125	Validation of an algorithm for the nonrigid registration of longitudinal breast MR images using realistic phantoms. <i>Medical Physics</i> , 2010 , 37, 2541-52	4.4	17
124	Experimentally-driven mathematical modeling to improve combination targeted and cytotoxic therapy for HER2+ breast cancer. <i>Scientific Reports</i> , 2019 , 9, 12830	4.9	16
123	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> , 2015 , 10, 1985-96	3.9	16
122	Multisite concordance of apparent diffusion coefficient measurements across the NCI Quantitative Imaging Network. <i>Journal of Medical Imaging</i> , 2018 , 5, 011003	2.6	16
121	Early prediction of the response of breast tumors to neoadjuvant chemotherapy using quantitative MRI and machine learning 2011 , 2011, 868-77	0.7	16
120	Mechanism-Based Modeling of Tumor Growth and Treatment Response Constrained by Multiparametric Imaging Data. <i>JCO Clinical Cancer Informatics</i> , 2019 , 3, 1-10	5.2	16
119	Reproducibility of static and dynamic (18)F-FDG, (18)F-FLT, and (18)F-FMISO MicroPET studies in a murine model of HER2+ breast cancer. <i>Molecular Imaging and Biology</i> , 2013 , 15, 87-96	3.8	15
118	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> , 2017 , 19, 130-137	3.8	15
117	A diffusion-compensated model for the analysis of DCE-MRI data: theory, simulations and experimental results. <i>Physics in Medicine and Biology</i> , 2013 , 58, 1983-98	3.8	15
116	The effects of IKK-beta inhibition on early NF-kappa-B activation and transcription of downstream genes. <i>Cellular Signalling</i> , 2019 , 55, 17-25	4.9	15
115	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> , 2016 , 43, 2374-2380	8.8	14
114	Letter to cancer center directors: Progress in quantitative imaging as a means to predict and/or measure tumor response in cancer therapy trials. <i>Journal of Clinical Oncology</i> , 2014 , 32, 2115-6	2.2	14
113	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> , 2019 , 5, 110-117	3.1	14
112	Patient-Specific Characterization of Breast Cancer Hemodynamics Using Image-Guided Computational Fluid Dynamics. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2760-2771	11.7	13
111	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> , 2018 , 36, 442-450	4.3	13
110	Longitudinal, intermodality registration of quantitative breast PET and MRI data acquired before and during neoadjuvant chemotherapy: preliminary results. <i>Medical Physics</i> , 2014 , 41, 052302	4.4	13

109	Potential of compressed sensing in quantitative MR imaging of cancer. <i>Cancer Imaging</i> , 2013 , 13, 633-44	5.6	13
108	Evidence of multiexponential T2 in rat glioblastoma. <i>NMR in Biomedicine</i> , 2009 , 22, 609-18	4.4	13
107	Evaluating patient-specific neoadjuvant regimens for breast cancer via a mathematical model constrained by quantitative magnetic resonance imaging data. <i>Neoplasia</i> , 2020 , 22, 820-830	6.4	13
106	Characterizing Trastuzumab-Induced Alterations in Intratumoral Heterogeneity with Quantitative Imaging and Immunohistochemistry in HER2+ Breast Cancer. <i>Neoplasia</i> , 2019 , 21, 17-29	6.4	13
105	Mathematical modelling of trastuzumab-induced immune response in an in vivo murine model of HER2+ breast cancer. <i>Mathematical Medicine and Biology</i> , 2019 , 36, 381-410	1.3	13
104	A multi-state model of chemoresistance to characterize phenotypic dynamics in breast cancer. <i>Scientific Reports</i> , 2018 , 8, 12058	4.9	13
103	Assessment of a simplified spin and gradient echo (sSAGE) approach for human brain tumor perfusion imaging. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 1248-1255	3.3	12
102	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> , 2017 , 30, e3799	4.4	12
101	Enhancement of histological volumes through averaging and their use for the analysis of magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 401-16	3.3	12
100	A Coupled Mass Transport and Deformation Theory of Multi-constituent Tumor Growth. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 139, 103936-103936	5	11
99	A comparison of individual and population-derived vascular input functions for quantitative DCE-MRI in rats. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 397-401	3.3	11
98	Comparison of dynamic contrast-enhanced MRI and quantitative SPECT in a rat glioma model. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 494-500	3.2	11
97	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> , 2020 , 10, 20518	4.9	11
96	Image-based personalization of computational models for predicting response of high-grade glioma to chemoradiation. <i>Scientific Reports</i> , 2021 , 11, 8520	4.9	11
95	The Influence of Chronic Liver Diseases on Hepatic Vasculature: A Liver-on-a-chip Review. <i>Micromachines</i> , 2020 , 11,	3.3	10
94	An algorithm for longitudinal registration of PET/CT images acquired during neoadjuvant chemotherapy in breast cancer: preliminary results. <i>EJNMMI Research</i> , 2012 , 2, 62	3.6	10
93	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> , 2018 , 5, 011011	2.6	10
92	Bloch-Siegert -Mapping Improves Accuracy and Precision of Longitudinal Relaxation Measurements in the Breast at 3 T. <i>Tomography</i> , 2016 , 2, 250-259	3.1	10

91	Quantitative Magnetization Transfer Imaging of the Breast at 3.0 T: Reproducibility in Healthy Volunteers. <i>Tomography</i> , 2016 , 2, 260-266	3.1	10
90	QIN DAWG Validation of Gradient Nonlinearity Bias Correction Workflow for Quantitative Diffusion-Weighted Imaging in Multicenter Trials. <i>Tomography</i> , 2016 , 2, 396-405	3.1	10
89	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> , 2021 , 298, 60-70	20.5	10
88	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> , 2015 , 17, 119-28	3.8	9
87	Modeling the effect of intra-voxel diffusion of contrast agent on the quantitative analysis of dynamic contrast enhanced magnetic resonance imaging. <i>PLoS ONE</i> , 2014 , 9, e108726	3.7	9
86	Modeling tumor growth and treatment response based on quantitative imaging data. <i>Integrative Biology (United Kingdom)</i> , 2010 , 2, 338-45	3.7	9
85	Functional colonography of Min mice using dark lumen dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 718-26	4.4	9
84	Coregistration of Ultrasonography and Magnetic Resonance Imaging with a Preliminary Investigation of the Spatial Colocalization of Vascular Endothelial Growth Factor Receptor 2 Expression and Tumor Perfusion in a Murine Tumor Model. <i>Molecular Imaging</i> , 2009 , 8, 7290.2009.00018	3.7	9
83	Measuring DNA Hybridization Kinetics in Live Cells Using a Time-Resolved 3D Single-Molecule Tracking Method. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15747-15750	16.4	8
82	Prone Versus Supine Breast FDG-PET/CT for Assessing Locoregional Disease Distribution in Locally Advanced Breast Cancer. <i>Academic Radiology</i> , 2015 , 22, 853-9	4.3	8
81	Integrating Quantitative Assays with Biologically Based Mathematical Modeling for Predictive Oncology. <i>IScience</i> , 2020 , 23, 101807	6.1	8
80	Imaging for Response Assessment in Cancer Clinical Trials. <i>Seminars in Nuclear Medicine</i> , 2020 , 50, 488-504	5.4	8
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- 1 Abstract P3-03-03: Quantitative multiparametric MRI predicts response to neoadjuvant therapy in the community setting. *Cancer Research*, **2022**, 82, P3-03-03-P3-03-03 10.1