

# Thomas Edward Yankeelov

## List of Publications by Year in descending order

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242  
papers

9,261  
citations

41258

49  
h-index

60497

81  
g-index

258  
all docs

258  
docs citations

258  
times ranked

10003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal FRET Imaging of Glucose and Lactate Dynamics and Response to Therapy in Breast Cancer Cells. <i>Molecular Imaging and Biology</i> , 2022, 24, 144-155.	1.3	5
2	Multi-Site Concordance of Diffusion-Weighted Imaging Quantification for Assessing Prostate Cancer Aggressiveness. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 1745-1758.	1.9	11
3	Disposable point-of-care portable perfusion phantom for quantitative DCE-MRI. <i>Medical Physics</i> , 2022, 49, 271-281.	1.6	3
4	Generative adversarial network enables rapid and robust fluorescence lifetime image analysis in live cells. <i>Communications Biology</i> , 2022, 5, 18.	2.0	21
5	A Multi-Compartment Model of Glioma Response to Fractionated Radiation Therapy Parameterized via Time-Resolved Microscopy Data. <i>Frontiers in Oncology</i> , 2022, 12, 811415.	1.3	1
6	Abstract P3-03-03: Quantitative multiparametric MRI predicts response to neoadjuvant therapy in the community setting. <i>Cancer Research</i> , 2022, 82, P3-03-03-P3-03-03.	0.4	0
7	Differences Between Ipsilateral and Contralateral Early Parenchymal Enhancement Kinetics Predict Response of Breast Cancer to Neoadjuvant Therapy. <i>Academic Radiology</i> , 2022, 29, 1469-1479.	1.3	3
8	Quantification of long-term doxorubicin response dynamics in breast cancer cell lines to direct treatment schedules. <i>PLoS Computational Biology</i> , 2022, 18, e1009104.	1.5	14
9	Quantifying Tumor Heterogeneity via MRI Habitats to Characterize Microenvironmental Alterations in HER2+ Breast Cancer. <i>Cancers</i> , 2022, 14, 1837.	1.7	17
10	Associations Between Dynamic Contrast Enhanced Magnetic Resonance Imaging and Clinically Relevant Histopathological Features in Breast Cancer: A Multicenter Analysis. <i>In Vivo</i> , 2022, 36, 398-408.	0.6	1
11	Integrating mechanism-based modeling with biomedical imaging to build practical digital twins for clinical oncology. <i>Biophysics Reviews</i> , 2022, 3, .	1.0	21
12	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> , 2022, 187, 114367.	6.6	15
13	Simulating the spread of COVID-19 via a spatially-resolved susceptible-exposed-infected-recovered-deceased (SEIRD) model with heterogeneous diffusion. <i>Applied Mathematics Letters</i> , 2021, 111, 106617.	1.5	156
14	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.	3.6	30
15	Modeling of Glioma Growth With Mass Effect by Longitudinal Magnetic Resonance Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3713-3724.	2.5	14
16	Math, magnets, and medicine: enabling personalized oncology. <i>Expert Review of Precision Medicine and Drug Development</i> , 2021, 6, 79-81.	0.4	12
17	The rate of breast fibroglandular enhancement during dynamic contrast-enhanced MRI reflects response to neoadjuvant therapy. <i>European Journal of Radiology</i> , 2021, 136, 109534.	1.2	3
18	Towards an Image-Informed Mathematical Model of In Vivo Response to Fractionated Radiation Therapy. <i>Cancers</i> , 2021, 13, 1765.	1.7	13

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19	Image-based personalization of computational models for predicting response of high-grade glioma to chemoradiation. <i>Scientific Reports</i> , 2021, 11, 8520.	1.6	34
20	Patient specific, imaging-informed modeling of rhenium-186 nanoliposome delivery via convection-enhanced delivery in glioblastoma multiforme. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 045012.	0.6	6
21	Tumor Microenvironment Alters Chemoresistance of Hepatocellular Carcinoma Through CYP3A4 Metabolic Activity. <i>Frontiers in Oncology</i> , 2021, 11, 662135.	1.3	23
22	Characterizing Errors in Pharmacokinetic Parameters from Analyzing Quantitative Abbreviated DCE-MRI Data in Breast Cancer. <i>Tomography</i> , 2021, 7, 253-267.	0.8	2
23	Biologically-Based Mathematical Modeling of Tumor Vasculature and Angiogenesis via Time-Resolved Imaging Data. <i>Cancers</i> , 2021, 13, 3008.	1.7	33
24	An experimental-mathematical approach to predict tumor cell growth as a function of glucose availability in breast cancer cell lines. <i>PLoS ONE</i> , 2021, 16, e0240765.	1.1	11
25	Deep learning-based classification of breast cancer cells using transmembrane receptor dynamics. <i>Bioinformatics</i> , 2021, 38, 243-249.	1.8	6
26	Quantitative magnetic resonance imaging and tumor forecasting of breast cancer patients in the community setting. <i>Nature Protocols</i> , 2021, 16, 5309-5338.	5.5	15
27	An in silico validation framework for quantitative DCE-MRI techniques based on a dynamic digital phantom. <i>Medical Image Analysis</i> , 2021, 73, 102186.	7.0	4
28	Integrating transcriptomics and bulk time course data into a mathematical framework to describe and predict therapeutic resistance in cancer. <i>Physical Biology</i> , 2021, 18, 016001.	0.8	17
29	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> , 2021, 3, 44-56.	0.5	10
30	A time-resolved experimental-mathematical model for predicting the response of glioma cells to single-dose radiation therapy. <i>Integrative Biology (United Kingdom)</i> , 2021, 13, 167-183.	0.6	4
31	Quantitative multiparametric MRI predicts response to neoadjuvant therapy in the community setting. <i>Breast Cancer Research</i> , 2021, 23, 110.	2.2	5
32	RADT-14. TOWARDS IMAGE-GUIDED MODELING OF PATIENT-SPECIFIC RHENIUM-186 NANOLIPOSOME DISTRIBUTION VIA CONVECTION-ENHANCED DELIVERY FOR GLIOBLASTOMA MULTIFORME. <i>Neuro-Oncology</i> , 2021, 23, vi44-vi44.	0.6	1
33	Bayesian calibration of a stochastic, multiscale agent-based model for predicting in vitro tumor growth. <i>PLoS Computational Biology</i> , 2021, 17, e1008845.	1.5	17
34	A time-resolved experimental mathematical model for predicting the response of glioma cells to single-dose radiation therapy. <i>Integrative Biology (United Kingdom)</i> , 2021, 13, 167-183.	0.6	18
35	Reply to Appropriate considerations of <i>œrural</i> in National Cancer Data Base analyses. <i>Cancer</i> , 2020, 126, 1586-1587.	2.0	0
36	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.	2.3	39

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37	CD4 T-cell immune stimulation of HER2+ breast cancer cells alters response to trastuzumab in vitro. <i>Cancer Cell International</i> , 2020, 20, 544.	1.8	6
38	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, 1131-1152.	2.2	63
39	Towards integration of 64Cu-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.	1.6	28
40	Integrating Quantitative Assays with Biologically Based Mathematical Modeling for Predictive Oncology. <i>IScience</i> , 2020, 23, 101807.	1.9	22
41	Optimal Control Theory for Personalized Therapeutic Regimens in Oncology: Background, History, Challenges, and Opportunities. <i>Journal of Clinical Medicine</i> , 2020, 9, 1314.	1.0	40
42	The Influence of Chronic Liver Diseases on Hepatic Vasculature: A Liver-on-a-chip Review. <i>Micromachines</i> , 2020, 11, 487.	1.4	20
43	Imaging for Response Assessment in Cancer Clinical Trials. <i>Seminars in Nuclear Medicine</i> , 2020, 50, 488-504.	2.5	22
44	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.	2.3	22
45	In vitro vascularized tumor platform for modeling tumor-vasculature interactions of inflammatory breast cancer. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3572-3590.	1.7	16
46	Multiparametric Analysis of Longitudinal Quantitative MRI Data to Identify Distinct Tumor Habitats in Preclinical Models of Breast Cancer. <i>Cancers</i> , 2020, 12, 1682.	1.7	28
47	Digital Receptor Occupancy Assay in Quantifying On- and Off-Target Binding Affinities of Therapeutic Antibodies. <i>ACS Sensors</i> , 2020, 5, 296-302.	4.0	2
48	Patient-Specific Characterization of Breast Cancer Hemodynamics Using Image-Guided Computational Fluid Dynamics. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2760-2771.	5.4	25
49	Forecasting tumor and vasculature response dynamics to radiation therapy via image based mathematical modeling. <i>Radiation Oncology</i> , 2020, 15, 4.	1.2	28
50	Anti-HER2 induced myeloid cell alterations correspond with increasing vascular maturation in a murine model of HER2+ breast cancer. <i>BMC Cancer</i> , 2020, 20, 359.	1.1	14
51	A hybrid model of tumor growth and angiogenesis: In silico experiments. <i>PLoS ONE</i> , 2020, 15, e0231137.	1.1	42
52	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. , 2020, , .		4
53	Co-Clinical Imaging Resource Program (CIRP): Bridging the Translational Divide to Advance Precision Medicine. <i>Tomography</i> , 2020, 6, 273-287.	0.8	11
54	Quantitative Comparison of Prone and Supine PERCIST Measurements in Breast Cancer. <i>Tomography</i> , 2020, 6, 170-176.	0.8	2

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55	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> , 2020, 6, 203-208.	0.8	12
56	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> , 2019, 63, 159-180.	2.2	8
57	Leveraging Mathematical Modeling to Quantify Pharmacokinetic and Pharmacodynamic Pathways: Equivalent Dose Metric. <i>Frontiers in Physiology</i> , 2019, 10, 616.	1.3	7
58	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.	2.0	74
59	Experimentally-driven mathematical modeling to improve combination targeted and cytotoxic therapy for HER2+ breast cancer. <i>Scientific Reports</i> , 2019, 9, 12830.	1.6	34
60	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.	6.6	15
61	The 2019 mathematical oncology roadmap. <i>Physical Biology</i> , 2019, 16, 041005.	0.8	147
62	Assessing metastatic potential of breast cancer cells based on EGFR dynamics. <i>Scientific Reports</i> , 2019, 9, 3395.	1.6	45
63	Calibrating a Predictive Model of Tumor Growth and Angiogenesis with Quantitative MRI. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1539-1551.	1.3	30
64	Translating preclinical MRI methods to clinical oncology. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1377-1392.	1.9	24
65	Mechanism-Based Modeling of Tumor Growth and Treatment Response Constrained by Multiparametric Imaging Data. <i>JCO Clinical Cancer Informatics</i> , 2019, 3, 1-10.	1.0	23
66	Spatial EGFR Dynamics and Metastatic Phenotypes Modulated by Upregulated EphB2 and Src Pathways in Advanced Prostate Cancer. <i>Cancers</i> , 2019, 11, 1910.	1.7	14
67	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.	1.7	29
68	Characterizing Trastuzumab-Induced Alterations in Intratumoral Heterogeneity with Quantitative Imaging and Immunohistochemistry in HER2+ Breast Cancer. <i>Neoplasia</i> , 2019, 21, 17-29.	2.3	20
69	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.	1.7	49
70	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.	1.9	44
71	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.	0.8	32
72	Magnetization Transfer MRI of Breast Cancer in the Community Setting: Reproducibility and Preliminary Results in Neoadjuvant Therapy. <i>Tomography</i> , 2019, 5, 44-52.	0.8	7

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73	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> , 2019, 5, 99-109.	0.8	44
74	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.	0.8	25
75	The Quantitative Imaging Network: A Decade of Achievement. <i>Tomography</i> , 2019, 5, A8.	0.8	8
76	Integrating quantitative imaging and computational modeling to predict the spatiotemporal distribution of 186Re nanoliposomes for recurrent glioblastoma treatment. , 2019, , .		1
77	Variable Cell Line Pharmacokinetics Contribute to Non-Linear Treatment Response in Heterogeneous Cell Populations. <i>Annals of Biomedical Engineering</i> , 2018, 46, 899-911.	1.3	5
78	Precision Medicine with Imprecise Therapy: Computational Modeling for Chemotherapy in Breast Cancer. <i>Translational Oncology</i> , 2018, 11, 732-742.	1.7	32
79	Repeatability, reproducibility, and accuracy of quantitative mri of the breast in the community radiology setting. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 695-707.	1.9	38
80	Mechanically Coupled Reaction-Diffusion Model to Predict Glioma Growth: Methodological Details. <i>Methods in Molecular Biology</i> , 2018, 1711, 225-241.	0.4	27
81	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.	0.4	29
82	Dual Src and EGFR inhibition in combination with gemcitabine in advanced pancreatic cancer: phase I results. <i>Investigational New Drugs</i> , 2018, 36, 442-450.	1.2	16
83	A hybrid three-scale model of tumor growth. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 61-93.	1.7	33
84	The effects of intravoxel contrast agent diffusion on the analysis of DCE-MRI data in realistic tissue domains. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 330-340.	1.9	8
85	Mathematical models of tumor cell proliferation: A review of the literature. <i>Expert Review of Anticancer Therapy</i> , 2018, 18, 1271-1286.	1.1	91
86	A multi-state model of chemoresistance to characterize phenotypic dynamics in breast cancer. <i>Scientific Reports</i> , 2018, 8, 12058.	1.6	26
87	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.	1.6	41
88	Accuracy, repeatability, and interplatform reproducibility of T <sub>1</sub> quantification methods used for DCE-MRI: Results from a multicenter phantom study. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2564-2575.	1.9	75
89	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> , 2018, 5, 1.	0.8	19
90	A mechanically coupled reaction-diffusion model that incorporates intra-tumoural heterogeneity to predict <i>in vivo</i> glioma growth. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20161010.	1.5	66

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91	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.	3.4	39
92	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.	2.9	37
93	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.	3.4	60
94	Imaging Considerations and Interprofessional Opportunities in the Care of Breast Cancer Patients in the Neoadjuvant Setting. <i>Seminars in Oncology Nursing</i> , 2017, 33, 425-439.	0.7	6
95	A Multi-Institutional Comparison of Dynamic Contrast-Enhanced Magnetic Resonance Imaging Parameter Calculations. <i>Scientific Reports</i> , 2017, 7, 11185.	1.6	29
96	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.	1.6	17
97	A Predictive Mathematical Modeling Approach for the Study of Doxorubicin Treatment in Triple Negative Breast Cancer. <i>Scientific Reports</i> , 2017, 7, 5725.	1.6	37
98	Quantitative [18F]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.	1.3	24
99	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.	3.4	53
100	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 169-186.	12.5	792
101	ANGI-08. PREDICTING IN VIVO TUMOR GROWTH AND ANGIOGENESIS WITH AN MRI CALIBRATED BIOPHYSICAL MODEL. <i>Neuro-Oncology</i> , 2017, 19, vi23-vi23.	0.6	5
102	Quantitative Evaluation of Temporal Regularizers in Compressed Sensing Dynamic Contrast Enhanced MRI of the Breast. <i>International Journal of Biomedical Imaging</i> , 2017, 2017, 1-11.	3.0	10
103	Multisite concordance of apparent diffusion coefficient measurements across the NCI Quantitative Imaging Network. <i>Journal of Medical Imaging</i> , 2017, 5, 1.	0.8	22
104	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> , 2017, 5, 1.	0.8	18
105	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> , 2017, 5, 1.	0.8	4
106	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> , 2017, 5, 1.	0.8	5
107	Multi-scale Modeling in Clinical Oncology: Opportunities and Barriers to Success. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2626-2641.	1.3	66
108	Phase I trial of vorinostat added to chemoradiation with capecitabine in pancreatic cancer. <i>Radiotherapy and Oncology</i> , 2016, 119, 312-318.	0.3	51

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109	Predicting response before initiation of neoadjuvant chemotherapy in breast cancer using new methods for the analysis of dynamic contrast enhanced MRI (DCE MRI) data. Proceedings of SPIE, 2016, , .	0.8	2
110	Selection, calibration, and validation of models of tumor growth. Mathematical Models and Methods in Applied Sciences, 2016, 26, 2341-2368.	1.7	71
111	Assessment of a simplified spin and gradient echo (sSAGE) approach for human brain tumor perfusion imaging. Magnetic Resonance Imaging, 2016, 34, 1248-1255.	1.0	17
112	Towards real-time topical detection and characterization of FDG dose infiltration prior to PET imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 2374-2380.	3.3	16
113	Introduction to the Special Section on Clinical Applications of Multi-Scale Modeling. Annals of Biomedical Engineering, 2016, 44, 2589-2590.	1.3	0
114	Demonstration of nonlinearity bias in the measurement of the apparent diffusion coefficient in multicenter trials. Magnetic Resonance in Medicine, 2016, 75, 1312-1323.	1.9	66
115	Trastuzumab improves tumor perfusion and vascular delivery of cytotoxic therapy in a murine model of HER2+ breast cancer: preliminary results. Breast Cancer Research and Treatment, 2016, 155, 273-284.	1.1	35
116	Quantitative Imaging in Cancer Clinical Trials. Clinical Cancer Research, 2016, 22, 284-290.	3.2	106
117	MR Imaging Biomarkers in Oncology Clinical Trials. Magnetic Resonance Imaging Clinics of North America, 2016, 24, 11-29.	0.6	33
118	The Impact of Arterial Input Function Determination Variations on Prostate Dynamic Contrast-Enhanced Magnetic Resonance Imaging Pharmacokinetic Modeling: A Multicenter Data Analysis Challenge. Tomography, 2016, 2, 56-66.	0.8	70
119	Blochâ€“Siegert B1-Mapping Improves Accuracy and Precision of Longitudinal Relaxation Measurements in the Breast at 3 T. Tomography, 2016, 2, 250-259.	0.8	13
120	Quantitative Magnetization Transfer Imaging of the Breast at 3.0 T: Reproducibility in Healthy Volunteers. Tomography, 2016, 2, 260-266.	0.8	10
121	QIN DAWG Validation of Gradient Nonlinearity Bias Correction Workflow for Quantitative Diffusion-Weighted Imaging in Multicenter Trials. Tomography, 2016, 2, 396-405.	0.8	12
122	Accrual Patterns for Clinical Studies Involving Quantitative Imaging: Results of an NCI Quantitative Imaging Network (QIN) Survey. Tomography, 2016, 2, 276-282.	0.8	1
123	Correlation of tumor characteristics derived from DCE-MRI and DW-MRI with histology in murine models of breast cancer. NMR in Biomedicine, 2015, 28, 1345-1356.	1.6	36
124	Detection of microcalcifications by characteristic magnetic susceptibility effects using MR phase image crossâ€“correlation analysis. Medical Physics, 2015, 42, 1436-1452.	1.6	8
125	Development of a diaphragmatic motion-based elastography framework for assessment of liver stiffness. , 2015, , .		1
126	Predicting<i>in vivo</i> glioma growth with the reaction diffusion equation constrained by quantitative magnetic resonance imaging data. Physical Biology, 2015, 12, 046006.	0.8	42



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127	Voxel-level reproducibility assessment of modality independent elastography in a pre-clinical murine model. , 2015, , .		0
128	Assessing the accuracy and reproducibility of modality independent elastography in a murine model of breast cancer. Journal of Medical Imaging, 2015, 2, 036001.	0.8	10
129	Detection of breast cancer microcalcification using 99mTc-MDP SPECT or Osteosense 750EX FMT imaging. Nuclear Medicine and Biology, 2015, 42, 269-273.	0.3	9
130	Toward a Science of Tumor Forecasting for Clinical Oncology. Cancer Research, 2015, 75, 918-923.	0.4	74
131	Prone Versus Supine Breast FDG-PET/CT for Assessing Locoregional Disease Distribution in Locally Advanced Breast Cancer. Academic Radiology, 2015, 22, 853-859.	1.3	11
132	Comparison of prone versus supine 18F-FDG-PET of locally advanced breast cancer: Phantom and preliminary clinical studies. Medical Physics, 2015, 42, 3801-3813.	1.6	8
133	Realization of a biomechanical model-assisted image guidance system for breast cancer surgery using supine MRI. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1985-1996.	1.7	28
134	Utility of [18â€‰F]FLT-PET to Assess Treatment Response in Trastuzumab-Resistant and Trastuzumab-Sensitive HER2-Overexpressing Human Breast Cancer Xenografts. Molecular Imaging and Biology, 2015, 17, 119-128.	1.3	12
135	Optimization of 7-T Chemical Exchange Saturation Transfer Parameters for Validation of Glycosaminoglycan and Amide Proton Transfer of Fibroglandular Breast Tissue. Radiology, 2015, 275, 255-261.	3.6	32
136	Multiparametric Magnetic Resonance Imaging for Predicting Pathological Response After the First Cycle of Neoadjuvant Chemotherapy in Breast Cancer. Investigative Radiology, 2015, 50, 195-204.	3.5	126
137	Predicting the Response of Breast Cancer to Neoadjuvant Therapy Using a Mechanically Coupled Reactionâ€‰Diffusion Model. Cancer Research, 2015, 75, 4697-4707.	0.4	86
138	Clinical Utility of Quantitative Imaging. Academic Radiology, 2015, 22, 33-49.	1.3	79
139	Methods and Challenges in Quantitative Imaging Biomarker Development. Academic Radiology, 2015, 22, 25-32.	1.3	80
140	<tt>DCEMRI.jl</tt>: a fast, validated, open source toolkit for dynamic contrast enhanced MRI analysis. PeerJ, 2015, 3, e909.	0.9	22
141	Modeling the Effect of Intra-Voxel Diffusion of Contrast Agent on the Quantitative Analysis of Dynamic Contrast Enhanced Magnetic Resonance Imaging. PLoS ONE, 2014, 9, e108726.	1.1	11
142	Evaluating treatment response using DW-MRI and DCE-MRI in trastuzumab responsive and resistant HER2-overexpressing human breast cancer xenografts. Translational Oncology, 2014, 7, 768-779.	1.7	28
143	DCEâ€‰MRI analysis methods for predicting the response of breast cancer to neoadjuvant chemotherapy: Pilot study findings. Magnetic Resonance in Medicine, 2014, 71, 1592-1602.	1.9	100
144	Letter to Cancer Center Directors: Progress in Quantitative Imaging As a Means to Predict and/or Measure Tumor Response in Cancer Therapy Trials. Journal of Clinical Oncology, 2014, 32, 2115-2116.	0.8	16

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145	Quantitative multimodality imaging in cancer research and therapy. Nature Reviews Clinical Oncology, 2014, 11, 670-680.	12.5	105
146	Techniques and applications of dynamic contrast enhanced magnetic resonance imaging in cancer. , 2014, 2014, 4264-7.		8
147	Sequence design and evaluation of the reproducibility of water-selective diffusion-weighted imaging of the breast at 3T. NMR in Biomedicine, 2014, 27, 1030-1036.	1.6	8
148	Longitudinal, intermodality registration of quantitative breast PET and MRI data acquired before and during neoadjuvant chemotherapy: Preliminary results. Medical Physics, 2014, 41, 052302.	1.6	15
149	Multi-parametric MRI characterization of inflammation in murine skeletal muscle. NMR in Biomedicine, 2014, 27, 716-725.	1.6	49
150	Imaging Biomarkers and Surrogate Endpoints in Oncology Clinical Trials. , 2014, , 29-42.		1
151	Assessing reproducibility of diffusion-weighted magnetic resonance imaging studies in a murine model of HER2+ breast cancer. Magnetic Resonance Imaging, 2014, 32, 245-249.	1.0	30
152	Variations of Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Evaluation of Breast Cancer Therapy Response: A Multicenter Data Analysis Challenge. Translational Oncology, 2014, 7, 153-166.	1.7	120
153	A comparison of two methods for estimating DCE-MRI parameters via individual and cohort based AIFs in prostate cancer: A step towards practical implementation. Magnetic Resonance Imaging, 2014, 32, 321-329.	1.0	36
154	Analyzing Spatial Heterogeneity in DCE- and DW-MRI Parametric Maps to Optimize Prediction of Pathologic Response to Neoadjuvant Chemotherapy in Breast Cancer. Translational Oncology, 2014, 7, 14-22.	1.7	35
155	An Approach to Breast Cancer Diagnosis via PET Imaging of Microcalcifications Using <sup>18</sup> F-NaF. Journal of Nuclear Medicine, 2014, 55, 1138-1143.	2.8	22
156	A comparison of individual and population-derived vascular input functions for quantitative DCE-MRI in rats. Magnetic Resonance Imaging, 2014, 32, 397-401.	1.0	13
157	Errors in Quantitative Image Analysis due to Platform-Dependent Image Scaling. Translational Oncology, 2014, 7, 65-71.	1.7	51
158	Co-registration of multi-modality imaging allows for comprehensive analysis of tumor-induced bone disease. Bone, 2014, 61, 208-216.	1.4	26
159	Utilizing a reference material for assessing absolute tumor mechanical properties in modality independent elastography. , 2014, , .		0
160	Image to physical space registration of supine breast MRI for image guided breast surgery. , 2014, , .		5
161	Validation and reproducibility assessment of modality independent elastography in a pre-clinical model of breast cancer. , 2014, , .		2
162	Assessing the reproducibility of dynamic contrast enhanced magnetic resonance imaging in a murine model of breast cancer. Magnetic Resonance in Medicine, 2013, 69, 1721-1734.	1.9	25

#	ARTICLE	IF	CITATIONS
163	Curvelets as a sparse basis for compressed sensing magnetic resonance imaging. , 2013, , .		3
164	Amide proton transfer imaging of the human breast at 7T: development and reproducibility. NMR in Biomedicine, 2013, 26, 1271-1277.	1.6	58
165	Reproducibility of Static and Dynamic 18F-FDG, 18F-FLT, and 18F-FMISO MicroPET Studies in a Murine Model of HER2+ Breast Cancer. Molecular Imaging and Biology, 2013, 15, 87-96.	1.3	17
166	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. Translational Oncology, 2013, 6, 256-264.	1.7	69
167	Early assessment of breast cancer response to neoadjuvant chemotherapy by semi-quantitative analysis of high-temporal resolution DCE-MRI: Preliminary results. Magnetic Resonance Imaging, 2013, 31, 1457-1464.	1.0	67
168	Amide proton transfer imaging of the breast at 3 T: Establishing reproducibility and possible feasibility assessing chemotherapy response. Magnetic Resonance in Medicine, 2013, 70, 216-224.	1.9	140
169	A consistent pre-clinical/clinical elastography approach for assessing tumor mechanical properties in therapeutic systems. , 2013, , .		5
170	A mechanically coupled reaction diffusion model of breast tumor response during neoadjuvant chemotherapy. Proceedings of SPIE, 2013, , .	0.8	1
171	Machine learning for predicting the response of breast cancer to neoadjuvant chemotherapy. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 688-695.	2.2	48
172	Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging Data to Constrain a Positron Emission Tomography Kinetic Model: Theory and Simulations. International Journal of Biomedical Imaging, 2013, 2013, 1-9.	3.0	4
173	Clinically Relevant Modeling of Tumor Growth and Treatment Response. Science Translational Medicine, 2013, 5, 187ps9.	5.8	145
174	A mechanically coupled reactionâ€“diffusion model for predicting the response of breast tumors to neoadjuvant chemotherapy. Physics in Medicine and Biology, 2013, 58, 5851-5866.	1.6	59
175	A diffusion-compensated model for the analysis of DCE-MRI data: theory, simulations and experimental results. Physics in Medicine and Biology, 2013, 58, 1983-1998.	1.6	20
176	In vivo imaging to initialize a biophysical model of tumor growth: Preliminary results. , 2013, , .		0
177	Potential of compressed sensing in quantitative MR imaging of cancer. Cancer Imaging, 2013, 13, 633-644.	1.2	16
178	Phase I trial of chemoradiation with capecitabine and vorinostat in pancreatic cancer.. Journal of Clinical Oncology, 2013, 31, 225-225.	0.8	3
179	Real-Time Compressive Sensing MRI Reconstruction Using GPU Computing and Split Bregman Methods. International Journal of Biomedical Imaging, 2012, 2012, 1-6.	3.0	59
180	Current and emerging quantitative magnetic resonance imaging methods for assessing and predicting the response of breast cancer to neoadjuvant therapy. Breast Cancer: Targets and Therapy, 2012, 2012, 139.	1.0	20

#	ARTICLE	IF	CITATIONS
181	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.	0.4	12
182	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.	2.3	35
183	Comparison of dual-echo DSC-MRI- and DCE-MRI-derived contrast agent kinetic parameters. <i>Magnetic Resonance Imaging</i> , 2012, 30, 944-953.	1.0	53
184	Simultaneous PET-MRI in oncology: a solution looking for a problem?. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1342-1356.	1.0	66
185	Preface to the special issue on quantitative imaging in cancer. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1201-1202.	1.0	0
186	High relaxivity MRI imaging reagents from bimodal star polymers. <i>Polymer Chemistry</i> , 2012, 3, 390-398.	1.9	44
187	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.	1.1	12
188	Practical Dynamic Contrast Enhanced MRI in Small Animal Models of Cancer: Data Acquisition, Data Analysis, and Interpretation. <i>Pharmaceutics</i> , 2012, 4, 442-478.	2.0	68
189	Statistical comparison of dynamic contrast-enhanced MRI pharmacokinetic models in human breast cancer. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 261-271.	1.9	38
190	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, 504-511.	5.4	24
191	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, 226-236.	1.9	48
192	Early DCE-MRI Changes after Longitudinal Registration May Predict Breast Cancer Response to Neoadjuvant Chemotherapy. <i>Lecture Notes in Computer Science</i> , 2012, , 229-235.	1.0	6
193	Integrating Imaging Data into Predictive Biomathematical and Biophysical Models of Cancer. , 2012, 2012, 1-12.		8
194	The Role of Magnetic Resonance Imaging Biomarkers in Clinical Trials of Treatment Response in Cancer. <i>Seminars in Oncology</i> , 2011, 38, 16-25.	0.8	34
195	On the relationship between the apparent diffusion coefficient and extravascular extracellular volume fraction in human breast cancer. <i>Magnetic Resonance Imaging</i> , 2011, 29, 630-638.	1.0	32
196	Motion correction in diffusion-weighted MRI of the breast at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1063-1070.	1.9	29
197	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.	1.9	24
198	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, 1689-1696.	1.9	41

#	ARTICLE	IF	CITATIONS
199	Earlier detection of tumor treatment response using magnetic resonance diffusion imaging with oscillating gradients. <i>Magnetic Resonance Imaging</i> , 2011, 29, 315-323.	1.0	40
200	Magnetic resonance in the era of molecular imaging of cancer. <i>Magnetic Resonance Imaging</i> , 2011, 29, 587-600.	1.0	82
201	Quantitative effects of using compressed sensing in dynamic contrast enhanced MRI. <i>Physics in Medicine and Biology</i> , 2011, 56, 4933-4946.	1.6	48
202	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, 5753-5769.	1.6	60
203	Early prediction of the response of breast tumors to neoadjuvant chemotherapy using quantitative MRI and machine learning. <i>AMIA ... Annual Symposium proceedings</i> , 2011, 2011, 868-77.	0.2	16
204	Validation of an algorithm for the nonrigid registration of longitudinal breast MR images using realistic phantoms. <i>Medical Physics</i> , 2010, 37, 2541-2552.	1.6	21
205	Characterization of tissue structure at varying length scales using temporal diffusion spectroscopy. <i>NMR in Biomedicine</i> , 2010, 23, 745-756.	1.6	131
206	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, 1-17.	0.6	32
207	The integration of quantitative multi-modality imaging data into mathematical models of tumors. <i>Physics in Medicine and Biology</i> , 2010, 55, 2429-2449.	1.6	39
208	Modeling tumor growth and treatment response based on quantitative imaging data. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 338.	0.6	12
209	Computational modeling in quantitative cancer imaging. , 2009, , .		0
210	Molecular Imaging Without Radiopharmaceuticals?. <i>Journal of Nuclear Medicine</i> , 2009, 50, 999-1007.	2.8	27
211	Nonrigid registration algorithm for longitudinal breast MR images and the preliminary analysis of breast tumor response. , 2009, , .		0
212	Has Quantitative Multimodal Imaging of Treatment Response Arrived?. <i>Clinical Cancer Research</i> , 2009, 15, 6473-6475.	3.2	2
213	Temporal sampling requirements for reference region modeling of DCE-MRI data in human breast cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 121-134.	1.9	36
214	Evidence of multiexponential $T_2$ in rat glioblastoma. <i>NMR in Biomedicine</i> , 2009, 22, 609-618.	1.6	16
215	Implementation of a Semi-automated Post-processing System for Parametric MRI Mapping of Human Breast Cancer. <i>Journal of Digital Imaging</i> , 2009, 22, 424-436.	1.6	1
216	A nonrigid registration algorithm for longitudinal breast MR images and the analysis of breast tumor response. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1258-1270.	1.0	58

#	ARTICLE	IF	CITATIONS
217	Enhancement of histological volumes through averaging and their use for the analysis of magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2009, 27, 401-416.	1.0	13
218	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.	0.7	10
219	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, 187-98.	0.7	6
220	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, 326-335.	1.9	37
221	Functional colonography of <i>Min</i> mice using dark lumen dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 718-726.	1.9	10
222	Integrating spatially resolved three-dimensional MALDI IMS with in vivo magnetic resonance imaging. <i>Nature Methods</i> , 2008, 5, 57-59.	9.0	153
223	Automatic nonrigid registration of whole body CT mice images. <i>Medical Physics</i> , 2008, 35, 1507-1520.	1.6	30
224	New Insights into Tumor Microstructure Using Temporal Diffusion Spectroscopy. <i>Cancer Research</i> , 2008, 68, 5941-5947.	0.4	56
225	$\alpha_2\beta_1$ integrin expression in the tumor microenvironment enhances tumor angiogenesis in a tumor cell-specific manner. <i>Blood</i> , 2008, 111, 1980-1988.	0.6	73
226	A Method for Assessing the Microvasculature in a Murine Tumor Model Using Contrast-Enhanced Ultrasonography. <i>Journal of Ultrasound in Medicine</i> , 2008, 27, 1699-1709.	0.8	23
227	Dynamic Contrast Enhanced Magnetic Resonance Imaging in Oncology: Theory, Data Acquisition, Analysis, and Examples. <i>Current Medical Imaging</i> , 2007, 3, 91-107.	0.4	325
228	Constrained non-rigid registration for whole body image registration: method and validation. , 2007, , .		6
229	Measuring Tumor Perfusion in Control and Treated Murine Tumors. <i>Journal of Ultrasound in Medicine</i> , 2007, 26, 749-756.	0.8	54
230	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, 353-361.	1.9	86
231	Incorporating contrast agent diffusion into the analysis of DCE-MRI data. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1124-1134.	1.9	47
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.	1.0	291
233	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, 487-497.	0.8	39
234	Multi-modal inter-subject registration of mouse brain images. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
235	Noninvasive Assessment of Tumor Vasculature Response to Radiation-Mediated, Vasculature-Targeted Therapy Using Quantified Power Doppler Sonography. <i>Journal of Ultrasound in Medicine</i> , 2006, 25, 1507-1517.	0.8	29
236	Repeatability of a reference region model for analysis of murine DCE-MRI data at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 1140-1147.	1.9	56
237	Evidence for shutter-speed variation in CR bolus-tracking studies of human pathology. <i>NMR in Biomedicine</i> , 2005, 18, 173-185.	1.6	85
238	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, 724-729.	1.9	67
239	Quantitative pharmacokinetic analysis of DCE-MRI data without an arterial input function: a reference region model. <i>Magnetic Resonance Imaging</i> , 2005, 23, 519-529.	1.0	254
240	Sonographic Depiction of Microvessel Perfusion. <i>Journal of Ultrasound in Medicine</i> , 2004, 23, 1499-1506.	0.8	35
241	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, 248-257.	1.9	86
242	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, 1151-1169.	1.9	171