Richard G Abramson

List of Publications by Year
in descending order

81 papers	2,187 citations	279798 23 h-index	254184 43 g-index
82 all docs	82 docs citations	82 times ranked	3709 citing authors

#	Article	IF	Citations
1	SynSeg-Net: Synthetic Segmentation Without Target Modality Ground Truth. IEEE Transactions on Medical Imaging, 2019, 38, 1016-1025.	8.9	163
2	Multiparametric Magnetic Resonance Imaging for Predicting Pathological Response After the First Cycle of Neoadjuvant Chemotherapy in Breast Cancer. Investigative Radiology, 2015, 50, 195-204.	6.2	126
3	Evaluation of Six Registration Methods for the Human Abdomen on Clinically Acquired CT. IEEE Transactions on Biomedical Engineering, 2016, 63, 1563-1572.	4.2	111
4	Quantitative multimodality imaging in cancer research and therapy. Nature Reviews Clinical Oncology, 2014, 11, 670-680.	27.6	105
5	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.	3.0	100
6	TBCRC 032 IB/II Multicenter Study: Molecular Insights to AR Antagonist and PI3K Inhibitor Efficacy in Patients with AR+ Metastatic Triple-Negative Breast Cancer. Clinical Cancer Research, 2020, 26, 2111-2123.	7.0	91
7	Efficient multi-atlas abdominal segmentation on clinically acquired CT with SIMPLE context learning. Medical Image Analysis, 2015, 24, 18-27.	11.6	84
8	Methods and Challenges in Quantitative Imaging Biomarker Development. Academic Radiology, 2015, 22, 25-32.	2.5	80
9	Clinical Utility of Quantitative Imaging. Academic Radiology, 2015, 22, 33-49.	2.5	79
10	Adversarial synthesis learning enables segmentation without target modality ground truth. , 2018, , .		78
11	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.	1.8	67
12	Simultaneous PETâ€“MRI in oncology: a solution looking for a problem?. Magnetic Resonance Imaging, 2012, 30, 1342-1356.	1.8	66
13	Phase I trial of vorinostat added to chemoradiation with capecitabine in pancreatic cancer. Radiotherapy and Oncology, 2016, 119, 312-318.	0.6	51
14	VIDA: A Voxel-Based Dosimetry Method for Targeted Radionuclide Therapy Using Geant4. Cancer Biotherapy and Radiopharmaceuticals, 2015, 30, 16-26.	1.0	49
15	Tutor versus Computer. Academic Radiology, 2002, 9, 40-49.	2.5	45
16	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. Tomography, 2019, 5, 99-109.	1.8	44
17	Clinical Activity of Ipilimumab in Acral Melanoma: A Retrospective Review. Oncologist, 2015, 20, 648-652.	3.7	38
18	Repeatability, reproducibility, and accuracy of quantitative mri of the breast in the community radiology setting. Journal of Magnetic Resonance Imaging, 2018, 48, 695-707.	3.4	38

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19	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.	3.7	35
20	Splenomegaly Segmentation on Multi-Modal MRI Using Deep Convolutional Networks. IEEE Transactions on Medical Imaging, 2019, 38, 1185-1196.	8.9	35
21	Fully convolutional neural networks improve abdominal organ segmentation. , 2018, 10574, .		34
22	Complications of Targeted Drug Therapies for Solid Malignancies: Manifestations and Mechanisms. American Journal of Roentgenology, 2013, 200, 475-483.	2.2	33
23	MR Imaging Biomarkers in Oncology Clinical Trials. Magnetic Resonance Imaging Clinics of North America, 2016, 24, 11-29.	1.1	33
24	Pitfalls in RECIST Data Extraction for Clinical Trials. Academic Radiology, 2015, 22, 779-786.	2.5	31
25	Splenomegaly segmentation using global convolutional kernels and conditional generative adversarial networks. , 2018, 10574, .		29
26	High-resolution 3D abdominal segmentation with random patch network fusion. Medical Image Analysis, 2021, 69, 101894.	11.6	26
27	Translating preclinical MRI methods to clinical oncology. Journal of Magnetic Resonance Imaging, 2019, 50, 1377-1392.	3.4	24
28	Report of the ACRâ€™s Economics Committee on Value-Based Payment Models. Journal of the American College of Radiology, 2017, 14, 6-14.	1.8	22
29	Robust Multicontrast MRI Spleen Segmentation for Splenomegaly Using Multi-Atlas Segmentation. IEEE Transactions on Biomedical Engineering, 2018, 65, 336-343.	4.2	22
30	Cost-effectiveness of Hepatic Arterial Chemoembolization for Colorectal Liver Metastases Refractory to Systemic Chemotherapy. Radiology, 2000, 216, 485-491.	7.3	21
31	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.	1.8	20
32	Antiâ€“PD-1â€“Induced Pneumonitis Is Associated with Persistent Imaging Abnormalities in Melanoma Patients. Cancer Immunology Research, 2019, 7, 1755-1759.	3.4	20
33	Early Detection of Ovarian Cancer with Conventional and Contrast-Enhanced Transvaginal Sonography: Recent Advances and Potential Improvements. Journal of Oncology, 2012, 2012, 1-11.	1.3	18
34	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. Journal of Medical Imaging, 2017, 5, 1.	1.5	18
35	Age-Related Structural and Functional Changes in the Breast: Multimodality Correlation With Digital Mammography, Computed Tomography, Magnetic Resonance Imaging, and Positron Emission Tomography. Seminars in Nuclear Medicine, 2007, 37, 146-153.	4.6	17
36	Accountable Care Organizations and Radiology: Threat or Opportunity?. Journal of the American College of Radiology, 2012, 9, 900-906.	1.8	17

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37	Potential of compressed sensing in quantitative MR imaging of cancer. Cancer Imaging, 2013, 13, 633-644.	2.8	16
38	Fusion Transcript Discovery in Formalin-Fixed Paraffin-Embedded Human Breast Cancer Tissues Reveals a Link to Tumor Progression. PLoS ONE, 2014, 9, e94202.	2.5	16
39	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.	6.4	16
40	Longitudinal, intermodality registration of quantitative breast PET and MRI data acquired before and during neoadjuvant chemotherapy: Preliminary results. Medical Physics, 2014, 41, 052302.	3.0	15
41	Acceleration of spleen segmentation with end-to-end deep learning method and automated pipeline. Computers in Biology and Medicine, 2019, 107, 109-117.	7.0	14
42	Improving splenomegaly segmentation by learning from heterogeneous multi-source labels. , 2019, 10949, .		14
43	Quantitative CT Imaging of Ventral Hernias: Preliminary Validation of an Anatomical Labeling Protocol. PLoS ONE, 2015, 10, e0141671.	2.5	13
44	Creating Value through Incremental Innovation: Managing Culture, Structure, and Process. Radiology, 2018, 288, 330-340.	7.3	13
45	Variability in Radiology Practice in the United States: A Former Teleradiologistâ€™s Perspective. Radiology, 2012, 263, 318-322.	7.3	12
46	An algorithm for longitudinal registration of PET/CT images acquired during neoadjuvant chemotherapy in breast cancer: preliminary results. EJNMMI Research, 2012, 2, 62.	2.5	12
47	Shape-constrained multi-atlas segmentation of spleen in CT. Proceedings of SPIE, 2014, 9034, 903446.	0.8	12
48	Automated Characterization of Body Composition and Frailty with Clinically Acquired CT. Lecture Notes in Computer Science, 2018, 10734, 25-35.	1.3	12
49	Prone Versus Supine Breast FDG-PET/CT for Assessing Locoregional Disease Distribution in Locally Advanced Breast Cancer. Academic Radiology, 2015, 22, 853-859.	2.5	11
50	Stochastic tissue window normalization of deep learning on computed tomography. Journal of Medical Imaging, 2019, 6, 1.	1.5	11
51	SIMPLE Is a Good Idea (and Better with Context Learning). Lecture Notes in Computer Science, 2014, 17, 364-371.	1.3	10
52	Quantitative Magnetization Transfer Imaging of the Breast at 3.0 T: Reproducibility in Healthy Volunteers. Tomography, 2016, 2, 260-266.	1.8	10
53	Quantitative metrics in clinical radiology reporting: a snapshot perspective from a single mixed academic-community practice. Magnetic Resonance Imaging, 2012, 30, 1357-1366.	1.8	9
54	Improving Spleen Volume Estimation Via Computer-assisted Segmentation on Clinically Acquired CT Scans. Academic Radiology, 2016, 23, 1214-1220.	2.5	9

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55	Multi-atlas spleen segmentation on CT using adaptive context learning. Proceedings of SPIE, 2017, 10133, .	0.8	9
56	State Involvement in Medical Technology Assessment. Health Affairs, 1995, 14, 83-98.	5.2	8
57	Evaluation of five image registration tools for abdominal CT: pitfalls and opportunities with soft anatomy. , 2015, 9413, .		8
58	Comparison of prone versus supine 18F-FDG-PET of locally advanced breast cancer: Phantom and preliminary clinical studies. Medical Physics, 2015, 42, 3801-3813.	3.0	8
59	Semi-supervised multi-organ segmentation through quality assurance supervision. , 2020, 11313, .		6
60	Multi-atlas segmentation enables robust multi-contrast MRI spleen segmentation for splenomegaly. , 2017, 10133, .		5
61	Multi-atlas segmentation for abdominal organs with Gaussian mixture models. , 2015, 9417, .		4
62	Evaluation of body-wise and organ-wise registrations for abdominal organs. Proceedings of SPIE, 2016, 9784, .	0.8	4
63	The Attenuation Distribution Across the Long Axis of Breast Cancer Liver Metastases at CT: A Quantitative Biomarker for Predicting Overall Survival. American Journal of Roentgenology, 2018, 210, W1-W7.	2.2	4
64	Validation and estimation of spleen volume via computer-assisted segmentation on clinically acquired CT scans. Journal of Medical Imaging, 2021, 8, 014004.	1.5	4
65	Combining multiparametric MRI with receptor information to optimize prediction of pathologic response to neoadjuvant therapy in breast cancer: preliminary results. Journal of Medical Imaging, 2017, 5, 1.	1.5	4
66	Contrast phase classification with a generative adversarial network. , 2020, 11313, .		4
67	Efficient abdominal segmentation on clinically acquired CT with SIMPLE context learning. Proceedings of SPIE, 2015, 9413, .	0.8	3
68	The Attenuation Distribution Across the Long Axis (ADLA). Academic Radiology, 2016, 23, 718-723.	2.5	3
69	Rap-Net: Coarse-To-Fine Multi-Organ Segmentation With Single Random Anatomical Prior. , 2021, 2021, 1491-1494.		3
70	Phase I trial of chemoradiation with capecitabine and vorinostat in pancreatic cancer.. Journal of Clinical Oncology, 2013, 31, 225-225.	1.6	3
71	Whole abdominal wall segmentation using augmented active shape models (AASM) with multi-atlas label fusion and level set. , 2016, 9784, .		2
72	Quantitative Comparison of Prone and Supine PERCIST Measurements in Breast Cancer. Tomography, 2020, 6, 170-176.	1.8	2

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73	Learning from dispersed manual annotations with an optimized data weighting policy. Journal of Medical Imaging, 2020, 7, 1.	1.5	2
74	A mechanically coupled reaction diffusion model of breast tumor response during neoadjuvant chemotherapy. Proceedings of SPIE, 2013, , .	0.8	1
75	Imaging Biomarkers and Surrogate Endpoints in Oncology Clinical Trials. , 2014, , 29-42.		1
76	Development of a diaphragmatic motion-based elastography framework for assessment of liver stiffness. , 2015, , .		1
77	Building a Hospital Core Resource for Clinical Research Imaging: Lessons for Driving Change Within Complex Organizations. Journal of the American College of Radiology, 2017, 14, 1359-1362.	1.8	1
78	On Quality Metrics and Quantitative Imaging. Radiology, 2018, 287, 367-372.	7.3	1
79	Outlier guided optimization of abdominal segmentation. , 2020, 11313, .		1
80	Hepatobiliary Imaging. Magnetic Resonance Imaging Clinics of North America, 2014, 22, xv-xvi.	1.1	0
81	Validation and optimization of multi-organ segmentation on clinical imaging archives. , 2020, 11313, .		0