

Mark D Pagel

List of Publications by Year in descending order

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100
papers

4,973
citations

117625

34
h-index

98798

67
g-index

106
all docs

106
docs citations

106
times ranked

5551
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiometal-Based PET/MRI Contrast Agents for Sensing Tumor Extracellular pH. <i>Biosensors</i> , 2022, 12, 134.	4.7	5
2	Review and consensus recommendations on clinical ^{31}P -weighted imaging approaches at ^3T : Application to brain tumors. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 546-574.	3.0	79
3	Quantitative Apparent Diffusion Coefficients From Peritumoral Regions as Early Predictors of Response to Neoadjuvant Systemic Therapy in Triple-Negative Breast Cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1901-1909.	3.4	6
4	Tumor necrosis by pretreatment breast MRI: association with neoadjuvant systemic therapy (NAST) response in triple-negative breast cancer (TNBC). <i>Breast Cancer Research and Treatment</i> , 2021, 185, 1-12.	2.5	10
5	Abstract PD6-07: Volumetric changes on longitudinal dynamic contrast enhanced MR imaging (DCE-MRI) as an early treatment response predictor to neoadjuvant systemic therapy (NAST) in triple negative breast cancer (TNBC) patients. , 2021, , .		0
6	Abstract PD6-06: Radiomic phenotypes from dynamic contrast-enhanced MRI (DCE-MRI) parametric maps for early prediction of response to neoadjuvant systemic therapy (NAST) in triple negative breast cancer (TNBC) patients. , 2021, , .		1
7	Functional Tumor Volume by Fast Dynamic Contrast-Enhanced MRI for Predicting Neoadjuvant Systemic Therapy Response in Triple-Negative Breast Cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 251-260.	3.4	18
8	AcidoCEST MRI Evaluates the Bone Microenvironment in Multiple Myeloma. <i>Molecular Imaging and Biology</i> , 2021, 23, 865-873.	2.6	6
9	Assessment of Early Response to Neoadjuvant Systemic Therapy in Triple-Negative Breast Cancer Using Amide Proton Transfer-weighted Chemical Exchange Saturation Transfer MRI: A Pilot Study. <i>Radiology Imaging Cancer</i> , 2021, 3, e200155.	1.6	12
10	Computer-aided detection of mantle cell lymphoma on F-FDG PET/CT using a deep learning convolutional neural network. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 11, 260-270.	1.0	2
11	Development of a Nanoscale Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent That Measures pH. <i>ACS Nano</i> , 2021, 15, 20678-20688.	14.6	4
12	Simultaneous Evaluations of pH and Enzyme Activity with a CEST MRI Contrast Agent. <i>ACS Sensors</i> , 2021, 6, 4535-4544.	7.8	2
13	Measuring Kidney Perfusion, pH, and Renal Clearance Consecutively Using MRI and Multispectral Optoacoustic Tomography. <i>Molecular Imaging and Biology</i> , 2020, 22, 494-503.	2.6	13
14	Machine Segmentation of Pelvic Anatomy in MRI-Assisted Radiosurgery (MARS) for Prostate Cancer Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 1292-1303.	0.8	18
15	MetNet: Computer-aided segmentation of brain metastases in post-contrast T1-weighted magnetic resonance imaging. <i>Radiotherapy and Oncology</i> , 2020, 153, 189-196.	0.6	32
16	Computer-aided Detection of Brain Metastases in T1-weighted MRI for Stereotactic Radiosurgery Using Deep Learning Single-Shot Detectors. <i>Radiology</i> , 2020, 295, 407-415.	7.3	74
17	Assessments of tumor metabolism with CEST MRI. <i>NMR in Biomedicine</i> , 2019, 32, e3943.	2.8	62
18	Deep learning application engine (DLAE): Development and integration of deep learning algorithms in medical imaging. <i>SoftwareX</i> , 2019, 10, 100347.	2.6	5

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19	Extracellular acidosis differentiates pancreatitis and pancreatic cancer in mouse models using acidoCEST MRI. <i>Neoplasia</i> , 2019, 21, 1085-1090.	5.3	18
20	Differentiating lung cancer and infection based on measurements of extracellular pH with acidoCEST MRI. <i>Scientific Reports</i> , 2019, 9, 13002.	3.3	20
21	Dominant words rise to the top by positive frequency-dependent selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7397-7402.	7.1	11
22	Recommendations for Reviewers of Biomedical Imaging Grant Applications. <i>Molecular Imaging and Biology</i> , 2019, 21, 612-619.	2.6	0
23	Calcium carbonate nanoparticles stimulate tumor metabolic reprogramming and modulate tumor metastasis. <i>Nanomedicine</i> , 2019, 14, 169-182.	3.3	25
24	Machine learning improves classification of preclinical models of pancreatic cancer with chemical exchange saturation transfer MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 594-601.	3.0	6
25	Differentiation of Myositis-Induced Models of Bacterial Infection and Inflammation with T2-Weighted, CEST, and DCE-MRI. <i>Tomography</i> , 2019, 5, 283-291.	1.8	7
26	Preliminary Results that Assess Metformin Treatment in a Preclinical Model of Pancreatic Cancer Using Simultaneous [18F]FDG PET and acidoCEST MRI. <i>Molecular Imaging and Biology</i> , 2018, 20, 575-583.	2.6	29
27	Characterization of Dâ€maltose as a T₂-exchange contrast agent for dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1158-1164.	3.0	10
28	The deep history of the number words. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160517.	4.0	23
29	Detection of Enzyme Activity and Inhibition during Studies in Solution, In Vitro and In Vivo with CatalyCEST MRI. <i>Molecular Imaging and Biology</i> , 2018, 20, 240-248.	2.6	23
30	A comparison of exogenous and endogenous <sc>CEST</sc> <sc>MRI</sc> methods for evaluating in vivo p<sc>H</sc>. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2766-2772.	3.0	49
31	Linearization improves the repeatability of quantitative dynamic contrast-enhanced MRI. <i>Magnetic Resonance Imaging</i> , 2018, 47, 16-24.	1.8	11
32	Clinical applications of chemical exchange saturation transfer (CEST) MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 11-27.	3.4	203
33	A light-fluence-independent method for the quantitative analysis of dynamic contrast-enhanced multispectral optoacoustic tomography (DCE MSOT). <i>Photoacoustics</i> , 2018, 10, 54-64.	7.8	21
34	Parallel Accumulation of Tumor Hyaluronan, Collagen, and Other Drivers of Tumor Progression. <i>Clinical Cancer Research</i> , 2018, 24, 4798-4807.	7.0	65
35	A Comparison of Iron Oxide Particles and Silica Particles for Tracking Organ Recellularization. <i>Molecular Imaging</i> , 2018, 17, 153601211878732.	1.4	3
36	Noninvasive detection of enzyme activity in tumor models of human ovarian cancer using catalyCEST MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2005-2014.	3.0	34

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37	A biomarker-responsive T ₂ MRI contrast agent. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1665-1670.	3.0	11
38	Detection of DT-diaphorase Enzyme with a ParaCEST MRI Contrast Agent. <i>Chemistry - A European Journal</i> , 2017, 23, 6514-6517.	3.3	14
39	Clinical Translation of Tumor Acidosis Measurements with AcidoCEST MRI. <i>Molecular Imaging and Biology</i> , 2017, 19, 617-625.	2.6	74
40	Managers of Molecular Imaging Laboratories (MOMIL) Interest Group. <i>Molecular Imaging and Biology</i> , 2017, 19, 332-335.	2.6	0
41	Multislice CEST MRI improves the spatial assessment of tumor pH. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 97-106.	3.0	27
42	Detecting <i>in vivo</i> urokinase plasminogen activator activity with a catalyCEST MRI contrast agent. <i>NMR in Biomedicine</i> , 2017, 30, e3721.	2.8	14
43	Q&A: What is human language, when did it evolve and why should we care?. <i>BMC Biology</i> , 2017, 15, 64.	3.8	19
44	Chapter 13 Responsive paraCEST MRI Contrast Agents and Their Biomedical Applications. , 2017, , 283-310.		0
45	Imaging Lung Cancer by Using Chemical Exchange Saturation Transfer MRI With Retrospective Respiration Gating. <i>Tomography</i> , 2017, 3, 201-210.	1.8	6
46	Recent Advances in Targeting Tumor Energy Metabolism with Tumor Acidosis as a Biomarker of Drug Efficacy. <i>Journal of Cancer Science & Therapy</i> , 2016, 08, 20-29.	1.7	18
47	A CatalyCEST MRI Contrast Agent that Can Simultaneously Detect Two Enzyme Activities. <i>ChemBioChem</i> , 2016, 17, 383-387.	2.6	17
48	Detection of Sulfatase Enzyme Activity with a CatalyCEST MRI Contrast Agent. <i>Chemistry - A European Journal</i> , 2016, 22, 6491-6495.	3.3	16
49	Advances in Magnetic Resonance Imaging Contrast Agents for Biomarker Detection. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 95-115.	5.4	57
50	Diamagnetic Imaging Agents with a Modular Chemical Design for Quantitative Detection of β -Galactosidase and β -Glucuronidase Activities with CatalyCEST MRI. <i>Bioconjugate Chemistry</i> , 2016, 27, 2549-2557.	3.6	20
51	QUESPOWR MRI: QUantification of Exchange as a function of Saturation Power On the Water Resonance. <i>Journal of Magnetic Resonance</i> , 2016, 270, 56-70.	2.1	5
52	Detection of Alkaline Phosphatase Enzyme Activity with a CatalyCEST MRI Biosensor. <i>ACS Sensors</i> , 2016, 1, 857-861.	7.8	30
53	Respiration gating and Bloch fitting improve pH measurements with acidoCEST MRI in an ovarian orthotopic tumor model. <i>Proceedings of SPIE</i> , 2016, 9788, .	0.8	13
54	Assessing Metabolic Changes in Response to mTOR Inhibition in a Mantle Cell Lymphoma Xenograft Model Using AcidoCEST MRI. <i>Molecular Imaging</i> , 2016, 15, 153601211664543.	1.4	18

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55	A single diamagnetic catalyCEST MRI contrast agent that detects cathepsin B enzyme activity by using a ratio of two CEST signals. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 130-138.	0.8	32
56	Design and optimization of pulsed Chemical Exchange Saturation Transfer MRI using a multiobjective genetic algorithm. <i>Journal of Magnetic Resonance</i> , 2016, 263, 184-192.	2.1	9
57	A comparison of iopromide and iopamidol, two acidoCEST MRI contrast media that measure tumor extracellular pH. <i>Contrast Media and Molecular Imaging</i> , 2015, 10, 446-455.	0.8	72
58	Double agents and secret agents: the emerging fields of exogenous chemical exchange saturation transfer and T2-exchange magnetic resonance imaging contrast agents for molecular imaging. <i>Research and Reports in Nuclear Medicine</i> , 2015, 5, 19.	1.0	13
59	Evaluating pH in the Extracellular Tumor Microenvironment Using CEST MRI and Other Imaging Methods. <i>Advances in Radiology</i> , 2015, 2015, 1-25.	0.7	102
60	A review of responsive MRI contrast agents: 2005-2014. <i>Contrast Media and Molecular Imaging</i> , 2015, 10, 245-265.	0.8	168
61	Measuring Extracellular pH in a Lung Fibrosis Model with acidoCEST MRI. <i>Molecular Imaging and Biology</i> , 2015, 17, 177-184.	2.6	36
62	Evaluations of Tumor Acidosis Within In Vivo Tumor Models Using Parametric Maps Generated with AcidoCEST MRI. <i>Molecular Imaging and Biology</i> , 2015, 17, 488-496.	2.6	63
63	Bantu expansion shows that habitat alters the route and pace of human dispersals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13296-13301.	7.1	223
64	Assessment of carbonic anhydrase IX expression and extracellular pH in B-cell lymphoma cell line models. <i>Leukemia and Lymphoma</i> , 2015, 56, 1432-1439.	1.3	36
65	Diffusion MRI with Semi-Automated Segmentation Can Serve as a Restricted Predictive Biomarker of the Therapeutic Response of Liver Metastasis. <i>Magnetic Resonance Imaging</i> , 2015, 33, 1267-1273.	1.8	11
66	Reproducibility of Magnetic Resonance Perfusion Imaging. <i>PLoS ONE</i> , 2014, 9, e89797.	2.5	15
67	Evaluations of extracellular pH within in vivo tumors using acidoCEST MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1408-1417.	3.0	168
68	The reciprocal linear QUEST analysis method facilitates the measurements of chemical exchange rates with CEST MRI. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 252-258.	0.8	21
69	The Hanes-Woolf linear QUESP method improves the measurements of fast chemical exchange rates with CEST MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1603-1612.	3.0	50
70	Detecting Enzyme Activities with Exogenous MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2014, 20, 9840-9850.	3.3	34
71	Comparison of analytical and numerical analysis of the reference region model for DCE-MRI. <i>Magnetic Resonance Imaging</i> , 2014, 32, 845-853.	1.8	2
72	Detection of in vivo enzyme activity with CatalyCEST MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1221-1230.	3.0	49

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73	A CatalyCEST MRI Contrast Agent That Detects the Enzyme-Catalyzed Creation of a Covalent Bond. <i>Journal of the American Chemical Society</i> , 2013, 135, 6396-6398.	13.7	61
74	A reference agent model for DCE MRI can be used to quantify the relative vascular permeability of two MRI contrast agents. <i>Magnetic Resonance Imaging</i> , 2013, 31, 900-910.	1.8	7
75	A linear algorithm of the reference region model for DCE-MRI is robust and relaxes requirements for temporal resolution. <i>Magnetic Resonance Imaging</i> , 2013, 31, 497-507.	1.8	33
76	CEST and PARACEST MRI Contrast Agents for Imaging Cancer Biomarkers. , 2012, , 689-713.		0
77	Imaging in Vivo Extracellular pH with a Single Paramagnetic Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent. <i>Molecular Imaging</i> , 2012, 11, 7290.2011.00026.	1.4	64
78	A nano-sized PARACEST-fluorescence imaging contrast agent facilitates and validates <i>in vivo</i> CEST MRI detection of glioma. <i>Nanomedicine</i> , 2012, 7, 1827-1837.	3.3	34
79	Imaging biomarkers to monitor response to the hypoxia-activated prodrug TH-302 in the MiaPaCa2 flank xenograft model. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1002-1009.	1.8	23
80	Measuring in vivo tumor pHe with CEST-FISP MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 760-768.	3.0	100
81	Improved pH measurements with a single PARACEST MRI contrast agent. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 26-34.	0.8	59
82	Imaging in vivo extracellular pH with a single paramagnetic chemical exchange saturation transfer magnetic resonance imaging contrast agent. <i>Molecular Imaging</i> , 2012, 11, 47-57.	1.4	63
83	A self-calibrating PARACEST MRI contrast agent that detects esterase enzyme activity. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 219-228.	0.8	54
84	Fluorescent and Lanthanide Labeling for Ligand Screens, Assays, and Imaging. <i>Methods in Molecular Biology</i> , 2011, 716, 89-126.	0.9	21
85	Responsive paramagnetic chemical exchange saturation transfer MRI contrast agents. <i>Imaging in Medicine</i> , 2011, 3, 377-380.	0.0	0
86	The hope and hype of multimodality imaging contrast agents. <i>Nanomedicine</i> , 2011, 6, 945-948.	3.3	18
87	PARACEST MRI with improved temporal resolution. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 399-408.	3.0	74
88	An amine-derivatized, DOTA-loaded polymeric support for Fmoc solid phase peptide synthesis. <i>Tetrahedron Letters</i> , 2009, 50, 4459-4462.	1.4	31
89	Tracking the Relative In Vivo Pharmacokinetics of Nanoparticles with PARACEST MRI. <i>Molecular Pharmaceutics</i> , 2009, 6, 1409-1416.	4.6	69
90	Using Two Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agents for Molecular Imaging Studies. <i>Accounts of Chemical Research</i> , 2009, 42, 915-924.	15.6	103

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91	Monitoring infection and inflammation in murine models of cystic fibrosis with magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 527-532.	3.4	17
92	Languages Evolve in Punctuational Bursts. <i>Science</i> , 2008, 319, 588-588.	12.6	169
93	An overview of responsive MRI contrast agents for molecular imaging. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 1733.	3.0	130
94	Peptidyl Molecular Imaging Contrast Agents Using a New Solid-Phase Peptide Synthesis Approach. <i>Bioconjugate Chemistry</i> , 2007, 18, 903-911.	3.6	19
95	Enzyme-responsive PARACEST MRI contrast agents: a new biomedical imaging approach for studies of the proteasome. <i>Contrast Media and Molecular Imaging</i> , 2007, 2, 189-198.	0.8	77
96	Design and characterization of a new irreversible responsive PARACEST MRI contrast agent that detects nitric oxide. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1249-1256.	3.0	112
97	Frequency of word-use predicts rates of lexical evolution throughout Indo-European history. <i>Nature</i> , 2007, 449, 717-720.	27.8	421
98	Bayesian Analysis of Correlated Evolution of Discrete Characters by Reversible Jump Markov Chain Monte Carlo. <i>American Naturalist</i> , 2006, 167, 808-825.	2.1	809
99	A facile synthesis of β -amino-DOTA as a versatile molecular imaging probe. <i>Tetrahedron Letters</i> , 2006, 47, 7327-7330.	1.4	14
100	The History, Rate and Pattern of World Linguistic Evolution. , 2000, , 391-416.		18