Hadassa Degani

List of Publications by Year
in descending order

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90	4,189	109321 35	118850 62
papers	citations	h-index	g-index

91	91	91	4739
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mapping pathophysiological features of breast tumors by MRI at high spatial resolution. Nature Medicine, 1997, 3, 780-782.	30.7	263
2	Tripleâ€negative breast cancer: Present challenges and new perspectives. Molecular Oncology, 2010, 4, 209-229.	4.6	252
3	Prostate Cancer: Accurate Determination of Extracapsular Extension with High-Spatial-Resolution Dynamic Contrast-enhanced and T2-weighted MR Imagingâ€"Initial Results. Radiology, 2007, 245, 176-185.	7.3	217
4	Kinetics of hyperpolarized ¹³ C ₁ -pyruvate transport and metabolism in living human breast cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18131-18136.	7.1	202
5	Phosphocholine as a biomarker of breast cancer: Molecular and biochemical studies. International Journal of Cancer, 2007, 120, 1721-1730.	5.1	191
6	Metabolic markers of breast cancer: enhanced choline metabolism and reduced choline-ether-phospholipid synthesis. Cancer Research, 2002, 62, 1966-70.	0.9	171
7	Simultaneous extraction of cellular lipids and water-soluble metabolites: Evaluation by NMR spectroscopy. Magnetic Resonance in Medicine, 1996, 35, 194-200.	3.0	135
8	Inhibition of Tumor Growth and Elimination of Multiple Metastases in Human Prostate and Breast Xenografts by Systemic Inoculation of a Host Defenseâ€"Like Lytic Peptide. Cancer Research, 2006, 66, 5371-5378.	0.9	122
9	Magnetic resonance imaging reveals functional diversity of the vasculature in benign and malignant breast lesions. Cancer, 2005, 104, 708-718.	4.1	89
10	Parametric Diffusion Tensor Imaging of the Breast. Investigative Radiology, 2012, 47, 284-291.	6.2	87
11	Enhancement of ATP Levels and Glucose Metabolism during an Infection by Chlamydia. Journal of Biological Chemistry, 1998, 273, 7052-7058.	3.4	86
12	Clinical Testing of High-Spatial-Resolution Parametric Contrast-Enhanced MR Imaging of the Breast. American Journal of Roentgenology, 2002, 179, 1485-1492.	2.2	81
13	Water diffusion in the different microenvironments of breast cancer. NMR in Biomedicine, 2004, 17, 170-180.	2.8	73
14	Real-time Imaging of Lymphogenic Metastasis in Orthotopic Human Breast Cancer. Cancer Research, 2006, 66, 8037-8041.	0.9	72
15	Glycolysis and glucose transporter 1 as markers of response to hormonal therapy in breast cancer. International Journal of Cancer, 2003, 107, 177-182.	5.1	71
16	Noninvasive Magnetic Resonance Imaging of Transport and Interstitial Fluid Pressure in Ectopic Human Lung Tumors. Cancer Research, 2006, 66, 4159-4166.	0.9	68
17	Quantitative diffusion imaging in implanted human breast tumors. Magnetic Resonance in Medicine, 1997, 37, 576-581.	3.0	67
18	Breast Fibroadenoma: Mapping of Pathophysiologic Features with Three-Time-Point, Contrast-enhanced MR Imagingâ€"Pilot Study. Radiology, 1999, 210, 233-240.	7.3	66

#	Article	IF	Citations
19	Ionic permeabilities of membranes. FEBS Letters, 1978, 90, 357-360.	2.8	65
20	Diffusion-Tensor MR Imaging of the Breast: Hormonal Regulation. Radiology, 2014, 271, 672-680.	7.3	53
21	Critical role of spatial resolution in dynamic contrast-enhanced breast MRI. Journal of Magnetic Resonance Imaging, 2001, 13, 862-867.	3.4	52
22	Functional sodium magnetic resonance imaging of the intact rat kidney. Kidney International, 2004, 65, 927-935.	5.2	50
23	²³Na-NMR Studies of the Intracellular Sodium Ion Concentration in the Halotolerant Alga Dunaliella salina. Plant Physiology, 1988, 87, 813-817.	4.8	48
24	Metabolic studies with NMR spectroscopy of the alga Dunaliella salina trapped within agarose beads. FEBS Journal, 1990, 188, 111-116.	0.2	48
25	Glycolysis as a metabolic marker in orthotopic breast cancer, monitored by in vivo 13C MRS. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E623-E630.	3.5	48
26	Modelâ€based and modelâ€free parametric analysis of breast dynamicâ€contrastâ€enhanced MRI. NMR in Biomedicine, 2009, 22, 40-53.	2.8	48
27	Hormonal regulation of VEGF in orthotopic MCF7 human breast cancer. Cancer Research, 2002, 62, 1948-51.	0.9	48
28	Parametric Analysis of Breast MRI. Journal of Computer Assisted Tomography, 2002, 26, 376-386.	0.9	47
29	Dynamic Contrast-Enhanced Imaging and Analysis at High Spatial Resolution of MCF7 Human Breast Tumors. Journal of Magnetic Resonance, 1997, 128, 161-171.	2.1	44
30	Monitoring Breast Cancer Response to Neoadjuvant Systemic Chemotherapy Using Parametric Contrast-Enhanced MRI: A Pilot Study. Academic Radiology, 2007, 14, 561-573.	2.5	44
31	Sodium magnetic resonance imaging of diuresis: Spatial and kinetic response. Magnetic Resonance in Medicine, 2005, 53, 545-552.	3.0	42
32	Can diffusion tensor anisotropy indices assist in breast cancer detection?. Journal of Magnetic Resonance Imaging, 2016, 44, 1624-1632.	3.4	39
33	Polyphosphate metabolism in the alga Dunaliella salina studied by 31P-NMR. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1092, 21-28.	4.1	38
34	Parametric imaging of tumor perfusion using flow- and permeability-limited tracers. Journal of Magnetic Resonance Imaging, 2002, 16, 289-299.	3.4	38
35	Quantitative evaluation of breast cancer response to neoadjuvant chemotherapy by diffusion tensor imaging: Initial results. Journal of Magnetic Resonance Imaging, 2018, 47, 1080-1090.	3.4	37
36	TNF-induced modulations of phospholipid metabolism in human breast cancer cells. Lipids and Lipid Metabolism, 1998, 1392, 217-232.	2.6	36

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37	Glucose transporters and transport kinetics in retinoic acid-differentiated T47D human breast cancer cells. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E508-E519.	3.5	36
38	Principal component analysis of breast DCEâ€MRI adjusted with a modelâ€based method. Journal of Magnetic Resonance Imaging, 2009, 30, 989-998.	3.4	36
39	Magnetic resonance imaging of tumor vasculature. Thrombosis and Haemostasis, 2003, 89, 25-33.	3.4	35
40	II. Effects of ionophorous antibiotics in chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1970, 216, 208-219.	1.0	34
41	Overcoming limitations in diffusionâ€weighted MRI of breast by spatioâ€temporal encoding. Magnetic Resonance in Medicine, 2015, 73, 2163-2173.	3.0	34
42	High-Resolution Magnetic Resonance Imaging of Disparities in the Transcapillary Transfer Rates in Orthotopically Inoculated Invasive Breast Tumors. Cancer Research, 2004, 64, 3155-3161.	0.9	33
43	Estrogen regulation of vascular endothelial growth factor in breast cancer in vitro and in vivo: the role of estrogen receptor Î± and c-Myc. Endocrine-Related Cancer, 2009, 16, 819-834.	3.1	33
44	13C- and 1H-NMR studies of osmoregulation in Dunaliella. Biochimica Et Biophysica Acta - Molecular Cell Research, 1985, 846, 313-323.	4.1	32
45	Chemotherapy-induced changes in the energetics of human breast cancer cells; 31P- and 13C-NMR studies. Biochimica Et Biophysica Acta - Molecular Cell Research, 1990, 1052, 255-263.	4.1	31
46	Non-invasive imaging of barriers to drug delivery in tumors. Microvascular Research, 2008, 76, 94-103.	2.5	31
47	Phosphate metabolites and steroid hormone receptors of benign and malignant breast tumors. A nuclear magnetic resonance study. Cancer, 1991, 67, 2919-2925.	4.1	30
48	In Vivo Studies by Magnetic Resonance Imaging and Spectroscopy of the Response to Tamoxifen of MCF7 Human Breast Cancer Implanted in Nude Mice. European Journal of Implant and Refractive Surgery, 1991, 3, 287-297.	0.3	30
49	Structure of Estradiol Metal Chelate and Estrogen Receptor Complex: The Basis for Designing a New Class of Selective Estrogen Receptor Modulators. Journal of Medicinal Chemistry, 2011, 54, 3575-3580.	6.4	28
50	Reversible Induction of ATP Synthesis by DNA Damage and Repair in Escherichia coli. Journal of Biological Chemistry, 1998, 273, 30232-30238.	3.4	27
51	Water-Soluble Contrast Agents Targeted at the Estrogen Receptor for Molecular Magnetic Resonance Imaging. Bioconjugate Chemistry, 2007, 18, 1361-1365.	3.6	27
52	NMR kinetic studies of the ionophore X-537A-mediated transport of manganous ions across phospholipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1978, 508, 364-369.	2.6	26
53	Correlation of MR imaging and histologic findings in mouse melanoma. Journal of Magnetic Resonance Imaging, 1992, 2, 695-700.	3.4	26
54	Choline in the aging brain. Brain Research, 2002, 951, 158-165.	2.2	26

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55	Principal Component Analysis of Dynamic Contrast Enhanced MRI in Human Prostate Cancer. Investigative Radiology, 2010, 45, 174-181.	6.2	25
56	The application of13C NMR to the characterization of phospholipid metabolism in cells. Magnetic Resonance in Medicine, 1992, 25, 384-389.	3.0	24
57	Altered brain glucose metabolism in transgenic-PFKL mice with elevated l-phosphofructokinase: in vivo NMR studies. Brain Research, 1998, 810, 138-145.	2.2	24
58	The role of intracellular orthophosphate in triggering osmoregulation in the alga Dunaliella salina. FEBS Journal, 1990, 188, 117-122.	0.2	23
59	Angiogenic response of MCF7 human breast cancer to hormonal treatment: Assessment by dynamic GdDTPA-enhanced MRI at high spatial resolution. Journal of Magnetic Resonance Imaging, 1996, 6, 195-202.	3.4	23
60	Diffusion Tensor Magnetic Resonance Imaging of the Pancreas. PLoS ONE, 2014, 9, e115783.	2.5	23
61	Magnetic resonance imaging and spectroscopy of MCF7 human breast cancer: Pathophysiology and monitoring of treatment. Clinica Chimica Acta, 1994, 228, 19-33.	1.1	22
62	31P and 13C-NMR Studies of the Phosphorus and Carbon Metabolites in the Halotolerant Alga, Dunaliella salina. Plant Physiology, 1988, 87, 320-324.	4.8	21
63	Gene dosage and down's syndrome: Metabolic and enzymatic changes in PC12 cells overexpressing transfected human liver-type phosphofructokinase. Somatic Cell and Molecular Genetics, 1992, 18, 143-161.	0.7	21
64	Effects of 17Î²-Estradiol on High Energy Phosphate Concentrations and the Flux Catalyzed by Creatine Kinase in Immature Rat Uteri:31P Nuclear Magnetic Resonance Studies*. Endocrinology, 1988, 122, 1631-1638.	2.8	20
65	Monitoring In-Vivo the Mammary Gland Microstructure during Morphogenesis from Lactation to Post-Weaning Using Diffusion Tensor MRI. Journal of Mammary Gland Biology and Neoplasia, 2017, 22, 193-202.	2.7	20
66	Direct detection of brain acetylcholine synthesis by magnetic resonance spectroscopy. Brain Research, 2005, 1048, 202-210.	2.2	19
67	Ion binding by X-537A. Rates of complexation of Ni2+ion and Mn2+ ion in methanol. Biochemistry, 1975, 14, 3755-3761.	2.5	18
68	Advantages and drawbacks of breast DTI. European Journal of Radiology, 2012, 81, S45-S47.	2.6	18
69	Tracking the Mammary Architectural Features and Detecting Breast Cancer with Magnetic Resonance Diffusion Tensor Imaging. Journal of Visualized Experiments, 2014, , .	0.3	18
70	Breast Cancer: Spectroscopy and Imaging of Cells and Tumors. , 1994, , 329-351.		17
71	Kinetics of monensin complexation with sodium ions by 23Na NMR spectroscopy. Biophysical Chemistry, 1977, 6, 345-349.	2.8	16
72	Permeability of alkylamines across phosphatidylcholine vesicles as studied by 1H-NMR. Biochimica Et Biophysica Acta - Biomembranes, 1985, 813, 207-212.	2.6	15

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73	The application of NMR in tumor angiogenesis research. Progress in Nuclear Magnetic Resonance Spectroscopy, 2006, 49, 27-44.	7.5	15
74	In Vivo Magnetic Resonance Imaging of the Estrogen Receptor in an Orthotopic Model of Human Breast Cancer. Cancer Research, 2011, 71, 7387-7397.	0.9	15
75	Signaling Mechanisms Controlled by Melanocortins in Melanoma, Lacrimal, and Brain Astroglial Cells. Annals of the New York Academy of Sciences, 1993, 680, 364-380.	3.8	13
76	High resolution MRI of MCF7 human breast tumors: Complemented use of iron oxide microspheres and Gd-DTPA. Journal of Magnetic Resonance Imaging, 1998, 8, 634-641.	3.4	12
77	Kinetics of cyclocreatine and Na+ cotransport in human breast cancer cells: mechanism of activity. American Journal of Physiology - Cell Physiology, 1999, 277, C708-C716.	4.6	11
78	Parametric Imaging of Tumor Perfusion with Deuterium Magnetic Resonance Imaging. Microvascular Research, 2002, 64, 104-115.	2.5	11
79	13C NMR kinetic studies of the rapid stimulation of glucose metabolism by estrogen in immature rat uterus. NMR in Biomedicine, 1994, 7, 209-217.	2.8	8
80	Clinical results of DTI. European Journal of Radiology, 2012, 81, S151-S152.	2.6	8
81	In vivo magnetic resonance of hyperpolarized [¹³C₁]pyruvate: metabolic dynamics in stimulated muscle. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E1165-E1171.	3.5	8
82	Characterization of estrogenâ€receptorâ€targeted contrast agents in solution, breast cancer cells, and tumors in vivo. Magnetic Resonance in Medicine, 2013, 70, 193-206.	3.0	5
83	Diffusion Is Directional: Innovative Diffusion Tensor Imaging to Improve Prostate Cancer Detection. Diagnostics, 2021, 11, 563.	2.6	5
84	Evaluation of the anticancer action of a permanently charged tamoxifen derivative, tamoxifen methiodide: an MRI study. International Journal of Pharmaceutics, 1997, 153, 147-157.	5.2	4
85	Estrogen Receptor-Targeted Contrast Agents for Molecular Magnetic Resonance Imaging of Breast Cancer Hormonal Status. Frontiers in Oncology, 2016, 6, 100.	2.8	4
86	Effect of IV Administration of a Gadolinium-Based Contrast Agent on Breast Diffusion-Tensor Imaging. American Journal of Roentgenology, 2020, 215, 1030-1036.	2.2	4
87	Vascular perfusion of human lung cancer in a rat orthotopic model using dynamic contrast-enhanced magnetic resonance imaging. International Journal of Cancer, 2006, 119, 365-372.	5.1	3
88	Parametric MRI of Water Diffusion in Breast Cancer. Israel Journal of Chemistry, 2003, 43, 103-114.	2.3	2
89	Determination of the Response of Melanoma Cells to Melanocyte Stimulating Hormone By31p Nuclear Magnetic Resonance Spectroscopy. Journal of Receptors and Signal Transduction, 1993, 13, 55-68.	1.2	1
90	Antibiotic Ionophores. , 1983, , 249-287.		0