

Pratip K Bhattacharya

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,532
citations

471509

17
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

1562
citing authors

#	ARTICLE	IF	CITATIONS
1	Parahydrogenâ€Based Hyperpolarization for Biomedicine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11140-11162.	13.8	251
2	Towards hyperpolarized ¹³ C-succinate imaging of brain cancer. <i>Journal of Magnetic Resonance</i> , 2007, 186, 150-155.	2.1	203
3	PASADENA Hyperpolarization of Succinic Acid for MRI and NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 4212-4213.	13.7	170
4	Real-Time Molecular Imaging of Tricarboxylic Acid Cycle Metabolism in Vivo by Hyperpolarized 1- ¹³ C Diethyl Succinate. <i>Journal of the American Chemical Society</i> , 2012, 134, 934-943.	13.7	135
5	Parahydrogenâ€induced polarization (PHIP) hyperpolarized MR receptor imaging <i>in vivo</i> : a pilot study of ¹³ C imaging of atheroma in mice. <i>NMR in Biomedicine</i> , 2011, 24, 1023-1028.	2.8	116
6	Clinical experience with ¹³ C MRS <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2003, 16, 358-369.	2.8	104
7	Hypoxia-Activated Prodrug TH-302 Targets Hypoxic Bone Marrow Niches in Preclinical Leukemia Models. <i>Clinical Cancer Research</i> , 2016, 22, 1687-1698.	7.0	66
8	Metabolic Differences in Glutamine Utilization Lead to Metabolic Vulnerabilities in Prostate Cancer. <i>Scientific Reports</i> , 2017, 7, 16159.	3.3	53
9	Hyperpolarized [1- ¹³ C]pyruvate-to-[1- ¹³ C]lactate conversion is rate-limited by monocarboxylate transporter-1 in the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22378-22389.	7.1	50
10	Cardiovascular Applications of Hyperpolarized Contrast Media and Metabolic Tracers. <i>Experimental Biology and Medicine</i> , 2009, 234, 1395-1416.	2.4	33
11	Real-Time MRI-Guided Catheter Tracking Using Hyperpolarized Silicon Particles. <i>Scientific Reports</i> , 2015, 5, 12842.	3.3	27
12	Combining Hyperpolarized Real-Time Metabolic Imaging and NMR Spectroscopy To Identify Metabolic Biomarkers in Pancreatic Cancer. <i>Journal of Proteome Research</i> , 2019, 18, 2826-2834.	3.7	27
13	Developing hyperpolarized silicon particles for <i>in vivo</i> MRI targeting of ovarian cancer. <i>Journal of Medical Imaging</i> , 2016, 3, 036001.	1.5	24
14	Hyperpolarized Porous Silicon Nanoparticles: Potential Theragnostic Material for ²⁹ Si Magnetic Resonance Imaging. <i>ChemPhysChem</i> , 2018, 19, 2143-2147.	2.1	23
15	Induction of autophagy by ARHI (DIRAS3) alters fundamental metabolic pathways in ovarian cancer models. <i>BMC Cancer</i> , 2016, 16, 824.	2.6	20
16	Androgen Receptor Signaling in Castration-Resistant Prostate Cancer Alters Hyperpolarized Pyruvate to Lactate Conversion and Lactate Levels <i>In Vivo</i> . <i>Molecular Imaging and Biology</i> , 2019, 21, 86-94.	2.6	20
17	Assessing Therapeutic Efficacy in Real-time by Hyperpolarized Magnetic Resonance Metabolic Imaging. <i>Cells</i> , 2019, 8, 340.	4.1	20
18	Assessing Metabolic Intervention with a Glutaminase Inhibitor in Real-Time by Hyperpolarized Magnetic Resonance in Acute Myeloid Leukemia. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 1937-1946.	4.1	19

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19	Prostate Cancer Energetics and Biosynthesis. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1210, 185-237.	1.6	19
20	Excess exogenous pyruvate inhibits lactate dehydrogenase activity in live cells in an MCT1-dependent manner. <i>Journal of Biological Chemistry</i> , 2021, 297, 100775.	3.4	18
21	Towards Real-time Metabolic Profiling of Cancer with Hyperpolarized Succinate. <i>Journal of Molecular Imaging & Dynamics</i> , 2016, 6, .	0.2	17
22	Interrogating Metabolism in Brain Cancer. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2016, 24, 687-703.	1.1	17
23	Hyperpolarization of Silicon Nanoparticles with TEMPO Radicals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10575-10581.	3.1	16
24	Early Detection of Pancreatic Intraepithelial Neoplasias (PanINs) in Transgenic Mouse Model by Hyperpolarized ¹³ C Metabolic Magnetic Resonance Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3722.	4.1	13
25	Metabolic Imaging as a Biomarker of Early Radiation Response in Tumors. <i>Clinical Cancer Research</i> , 2015, 21, 4996-4998.	7.0	10
26	Real-time Interrogation of Aspirin Reactivity, Biochemistry, and Biodistribution by Hyperpolarized Magnetic Resonance Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4179-4183.	13.8	8
27	Hyperpolarized ²⁹ Si MRI with silicon micro and nanoparticles: Principles and applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1722.	6.1	8
28	²⁹ Si Isotope-Enriched Silicon Nanoparticles for an Efficient Hyperpolarized Magnetic Resonance Imaging Probe. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56923-56930.	8.0	8
29	Can an Organoid Recapitulate the Metabolome of its Parent Tissue? A Pilot NMR Spectroscopy Study. <i>Journal of Cancer Prevention & Current Research</i> , 2017, 8, .	0.1	6
30	Interrogating IDH Mutation in Brain Tumor. <i>Topics in Magnetic Resonance Imaging</i> , 2017, 26, 27-32.	1.2	5
31	Hyperpolarized Magnetic Resonance and Artificial Intelligence: Frontiers of Imaging in Pancreatic Cancer. <i>JMIR Medical Informatics</i> , 2021, 9, e26601.	2.6	5
32	NMR Spectroscopy-Based Metabolomics of Platelets to Analyze Brain Tumors. <i>Reports</i> , 2021, 4, 32.	0.5	5
33	Measuring the Metabolic Evolution of Glioblastoma throughout Tumor Development, Regression, and Recurrence with Hyperpolarized Magnetic Resonance. <i>Cells</i> , 2021, 10, 2621.	4.1	4
34	Therapeutic efficacy of liposomal Grb2 antisense oligodeoxynucleotide (L-Grb2) in preclinical models of ovarian and uterine cancer. <i>Oncotarget</i> , 2020, 11, 2819-2833.	1.8	4
35	Identifying the Metabolic Signatures of PPAR δ -Overexpressing Gastric Tumors. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1645.	4.1	4
36	Bio-interfacial magnetic resonance imaging of hyperpolarized contrast agents for metabolic flux interrogation in vivo. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 224-228.	5.8	1

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37	Metabolic Imaging Using for Assessment of Premalignancy. <i>Methods in Molecular Biology</i> , 2022, 2435, 169-180.	0.9	0
38	Post-Acquisition Hyperpolarized ²⁹ Silicon Magnetic Resonance Image Processing for Visualization of Colorectal Lesions Using a User-Friendly Graphical Interface. <i>Diagnostics</i> , 2022, 12, 610.	2.6	0