

# Henk M De Feyter

## List of Publications by Year in descending order

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42  
papers

2,370  
citations

257450

24  
h-index

289244

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interleaved fluid-attenuated inversion recovery (<sc>FLAIR</sc>) <sc>MRI</sc> and deuterium metabolic imaging (<sc>DMI</sc>) on human brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 28-37.	3.0	8
2	Prefrontal Glutamate Neurotransmission in PTSD: A Novel Approach to Estimate Synaptic Strength in Vivo in Humans. <i>Chronic Stress</i> , 2022, 6, 247054702210927.	3.4	8
3	Short symmetric and highly selective asymmetric first and second order gradient modulated offset independent adiabaticity (GOIA) pulses for applications in clinical MRS and MRSI. <i>Journal of Magnetic Resonance</i> , 2022, 341, 107247.	2.1	1
4	Characterization of Kinetic Isotope Effects and Label Loss in Deuterium-Based Isotopic Labeling Studies. <i>ACS Chemical Neuroscience</i> , 2021, 12, 234-243.	3.5	25
5	Methods   <sup>13</sup> C MRS Measurements of in Vivo Rates of the Glutamate/Glutamine and GABA/Glutamine Neurotransmitter Cycles. , 2021, , 688-700.		2
6	NMR visibility of deuterium-labeled liver glycogen <i>in vivo</i> . <i>Magnetic Resonance in Medicine</i> , 2021, 86, 62-68.	3.0	22
7	Deuterium metabolic imaging – “Back to the future”. <i>Journal of Magnetic Resonance</i> , 2021, 326, 106932.	2.1	51
8	Medulloblastoma uses GABA transaminase to survive in the cerebrospinal fluid microenvironment and promote leptomeningeal dissemination. <i>Cell Reports</i> , 2021, 35, 109302.	6.4	19
9	Simultaneous Recording of the Uptake and Conversion of Glucose and Choline in Tumors by Deuterium Metabolic Imaging. <i>Cancers</i> , 2021, 13, 4034.	3.7	17
10	Deuterium Metabolic Imaging of the Healthy and Diseased Brain. <i>Neuroscience</i> , 2021, 474, 94-99.	2.3	22
11	Deuterium metabolic imaging in the human brain at 9.4 Tesla with high spatial and temporal resolution. <i>NeuroImage</i> , 2021, 244, 118639.	4.2	34
12	ECLIPSE utilizing gradient-modulated offset-independent adiabaticity (GOIA) pulses for highly selective human brain proton MRSI. <i>NMR in Biomedicine</i> , 2021, 34, e4415.	2.8	2
13	On the magnetic field dependence of deuterium metabolic imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4235.	2.8	46
14	Robust outer volume suppression utilizing elliptical pulsed second order fields (ECLIPSE) for human brain proton MRSI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1539-1552.	3.0	7
15	In vivo <sup>13</sup> C and <sup>1</sup> H- <sup>13</sup> C MRS studies of neuroenergetics and neurotransmitter cycling, applications to neurological and psychiatric disease and brain cancer. <i>NMR in Biomedicine</i> , 2019, 32, e4172.	2.8	34
16	In vivo proton observed carbon edited (POCE) <sup>13</sup> C magnetic resonance spectroscopy of the rat brain using a volumetric transmitter and receive-only surface coil on the proton channel. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 628-635.	3.0	6
17	Selective proton-observed, carbon-edited (selPOCE) MRS method for measurement of glutamate and glutamine <sup>13</sup> C-labeling in the human frontal cortex. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 11-20.	3.0	19
18	Elliptical localization with pulsed second-order fields (ECLIPSE) for robust lipid suppression in proton MRSI. <i>NMR in Biomedicine</i> , 2018, 31, e3949.	2.8	15

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19	The effects of ketamine on prefrontal glutamate neurotransmission in healthy and depressed subjects. <i>Neuropsychopharmacology</i> , 2018, 43, 2154-2160.	5.4	146
20	Deuterium metabolic imaging (DMI) for MRI-based 3D mapping of metabolism in vivo. <i>Science Advances</i> , 2018, 4, eaat7314.	10.3	194
21	2-Hydroxyglutarate produced by neomorphic IDH mutations suppresses homologous recombination and induces PARP inhibitor sensitivity. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	420
22	Comparison of direct <sup>13</sup> C and indirect <sup>1</sup> H-[ <sup>13</sup> C] MR detection methods for the study of dynamic metabolic turnover in the human brain. <i>Journal of Magnetic Resonance</i> , 2017, 283, 33-44.	2.1	12
23	Detection of cerebral NAD <sup>+</sup> in humans at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 828-835.	3.0	38
24	“What to eat or what not to eat” that is still the question - Reply. <i>Neuro-Oncology</i> , 2017, 19, 596-597.	1.2	1
25	Imaging the intratumoral peritumoral extracellular pH gradient of gliomas. <i>NMR in Biomedicine</i> , 2016, 29, 309-319.	2.8	52
26	A ketogenic diet increases transport and oxidation of ketone bodies in RG2 and 9L gliomas without affecting tumor growth. <i>Neuro-Oncology</i> , 2016, 18, 1079-1087.	1.2	72
27	High-sensitivity, broadband decoupled <sup>13</sup> C MR spectroscopy in humans at 7T using two-dimensional heteronuclear single-quantum coherence. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 903-914.	3.0	18
28	Glutamate Metabolism in Major Depressive Disorder. <i>American Journal of Psychiatry</i> , 2014, 171, 1320-1327.	7.2	155
29	Characterization of Cerebral Glutamine Uptake from Blood in the Mouse Brain: Implications for Metabolic Modeling of <sup>13</sup> C NMR Data. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1666-1672.	4.3	31
30	Increased Brain Lactate Concentrations Without Increased Lactate Oxidation During Hypoglycemia in Type 1 Diabetic Individuals. <i>Diabetes</i> , 2013, 62, 3075-3080.	0.6	40
31	Increased Brain Transport and Metabolism of Acetate in Hypoglycemia Unawareness. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 3811-3820.	3.6	24
32	Increased brain uptake and oxidation of acetate in heavy drinkers. <i>Journal of Clinical Investigation</i> , 2013, 123, 1605-1614.	8.2	111
33	Myofibrillar distribution of succinate dehydrogenase activity and lipid stores differs in skeletal muscle tissue of paraplegic subjects. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E365-E373.	3.5	8
34	Physical Activity Is the Key Determinant of Skeletal Muscle Mitochondrial Function in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 3261-3269.	3.6	90
35	Is there In Vivo Evidence for Amino Acid Shuttles Carrying Ammonia from Neurons to Astrocytes?. <i>Neurochemical Research</i> , 2012, 37, 2597-2612.	3.3	53
36	<sup>13</sup> C MRS studies of neuroenergetics and neurotransmitter cycling in humans. <i>NMR in Biomedicine</i> , 2011, 24, 943-957.	2.8	249

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37	Adaptations in Mitochondrial Function Parallel, but Fail to Rescue, the Transition to Severe Hyperglycemia and Hyperinsulinemia: A Study in Zucker Diabetic Fatty Rats. <i>Obesity</i> , 2010, 18, 1100-1107.	3.0	25
38	Increased mitochondrial content rescues <i>in vivo</i> muscle oxidative capacity in long-term high-fat diet-fed rats. <i>FASEB Journal</i> , 2010, 24, 1354-1364.	0.5	47
39	Early or advanced stage type 2 diabetes is not accompanied by <i>in vivo</i> skeletal muscle mitochondrial dysfunction. <i>European Journal of Endocrinology</i> , 2008, 158, 643-653.	3.7	101
40	Increased intramyocellular lipid content but normal skeletal muscle mitochondrial oxidative capacity throughout the pathogenesis of type 2 diabetes. <i>FASEB Journal</i> , 2008, 22, 3947-3955.	0.5	70
41	Exercise Training Improves Glycemic Control in Long-Standing Insulin-Treated Type 2 Diabetic Patients. <i>Diabetes Care</i> , 2007, 30, 2511-2513.	8.6	48
42	<sup>31</sup> P MR spectroscopy and <i>in vitro</i> markers of oxidative capacity in type 2 diabetes patients. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007, 19, 321-331.	2.0	27