Henk M De Feyter

List of Publications by Year
in descending order

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Version: 2024-02-01

42	2,370	257450	289244
papers	citations	24 h-index	40 g-index

43	43	43	3753
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2-Hydroxyglutarate produced by neomorphic IDH mutations suppresses homologous recombination and induces PARP inhibitor sensitivity. Science Translational Medicine, 2017, 9, .	12.4	420
2	¹³C MRS studies of neuroenergetics and neurotransmitter cycling in humans. NMR in Biomedicine, 2011, 24, 943-957.	2.8	249
3	Deuterium metabolic imaging (DMI) for MRI-based 3D mapping of metabolism in vivo. Science Advances, 2018, 4, eaat7314.	10.3	194
4	Glutamate Metabolism in Major Depressive Disorder. American Journal of Psychiatry, 2014, 171, 1320-1327.	7.2	155
5	The effects of ketamine on prefrontal glutamate neurotransmission in healthy and depressed subjects. Neuropsychopharmacology, 2018, 43, 2154-2160.	5.4	146
6	Increased brain uptake and oxidation of acetate in heavy drinkers. Journal of Clinical Investigation, 2013, 123, 1605-1614.	8.2	111
7	Early or advanced stage type 2 diabetes is not accompanied by in vivo skeletal muscle mitochondrial dysfunction. European Journal of Endocrinology, 2008, 158, 643-653.	3.7	101
8	Physical Activity Is the Key Determinant of Skeletal Muscle Mitochondrial Function in Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 3261-3269.	3.6	90
9	A ketogenic diet increases transport and oxidation of ketone bodies in RG2 and 9L gliomas without affecting tumor growth. Neuro-Oncology, 2016, 18, 1079-1087.	1.2	72
10	Increased intramyocellular lipid content but normal skeletal muscle mitochondrial oxidative capacity throughout the pathogenesis of type 2 diabetes. FASEB Journal, 2008, 22, 3947-3955.	0.5	70
11	Is there In Vivo Evidence for Amino Acid Shuttles Carrying Ammonia from Neurons to Astrocytes?. Neurochemical Research, 2012, 37, 2597-2612.	3.3	53
12	Imaging the intratumoralâ€“peritumoral extracellular pH gradient of gliomas. NMR in Biomedicine, 2016, 29, 309-319.	2.8	52
13	Deuterium metabolic imaging â€“ Back to the future. Journal of Magnetic Resonance, 2021, 326, 106932.	2.1	51
14	Exercise Training Improves Glycemic Control in Long-Standing Insulin-Treated Type 2 Diabetic Patients. Diabetes Care, 2007, 30, 2511-2513.	8.6	48
15	Increased mitochondrial content rescuesin vivomuscle oxidative capacity in longâ€term highâ€fatâ€dietâ€fed rats. FASEB Journal, 2010, 24, 1354-1364.	0.5	47
16	On the magnetic field dependence of deuterium metabolic imaging. NMR in Biomedicine, 2020, 33, e4235.	2.8	46
17	Increased Brain Lactate Concentrations Without Increased Lactate Oxidation During Hypoglycemia in Type 1 Diabetic Individuals. Diabetes, 2013, 62, 3075-3080.	0.6	40
18	Detection of cerebral NAD⁺ in humans at 7T. Magnetic Resonance in Medicine, 2017, 78, 828-835.	3.0	38

#	Article	IF	Citations
19	In vivo ¹³C and ¹Hâ€[¹³C] MRS studies of neuroenergetics and neurotransmitter cycling, applications to neurological and psychiatric disease and brain cancer. NMR in Biomedicine, 2019, 32, e4172.	2.8	34
20	Deuterium metabolic imaging in the human brain at 9.4 Tesla with high spatial and temporal resolution. NeuroImage, 2021, 244, 118639.	4.2	34
21	Characterization of Cerebral Glutamine Uptake from Blood in the Mouse Brain: Implications for Metabolic Modeling of ¹³C NMR Data. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1666-1672.	4.3	31
22	31P MR spectroscopy and in vitro markers of oxidative capacity in type 2 diabetes patients. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2007, 19, 321-331.	2.0	27
23	Adaptations in Mitochondrial Function Parallel, but Fail to Rescue, the Transition to Severe Hyperglycemia and Hyperinsulinemia: A Study in Zucker Diabetic Fatty Rats. Obesity, 2010, 18, 1100-1107.	3.0	25
24	Characterization of Kinetic Isotope Effects and Label Loss in Deuterium-Based Isotopic Labeling Studies. ACS Chemical Neuroscience, 2021, 12, 234-243.	3.5	25
25	Increased Brain Transport and Metabolism of Acetate in Hypoglycemia Unawareness. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 3811-3820.	3.6	24
26	NMR visibility of deuteriumâ€labeled liver glycogen in vivo. Magnetic Resonance in Medicine, 2021, 86, 62-68.	3.0	22
27	Deuterium Metabolic Imaging of the Healthy and Diseased Brain. Neuroscience, 2021, 474, 94-99.	2.3	22
28	Selective protonâ€observed, carbonâ€edited (selPOCE) MRS method for measurement of glutamate and glutamine ¹³Câ€labeling in the human frontal cortex. Magnetic Resonance in Medicine, 2018, 80, 11-20.	3.0	19
29	Medulloblastoma uses GABA transaminase to survive in the cerebrospinal fluid microenvironment and promote leptomeningeal dissemination. Cell Reports, 2021, 35, 109302.	6.4	19
30	Highâ€sensitivity, broadbandâ€decoupled ¹³C MR spectroscopy in humans at 7T using twoâ€dimensional heteronuclear singleâ€quantum coherence. Magnetic Resonance in Medicine, 2015, 74, 903-914.	3.0	18
31	Simultaneous Recording of the Uptake and Conversion of Glucose and Choline in Tumors by Deuterium Metabolic Imaging. Cancers, 2021, 13, 4034.	3.7	17
32	Elliptical localization with pulsed secondâ€order fields (ECLIPSE) for robust lipid suppression in proton MRSI. NMR in Biomedicine, 2018, 31, e3949.	2.8	15
33	Comparison of direct 13 C and indirect 1 H-[13 C] MR detection methods for the study of dynamic metabolic turnover in the human brain. Journal of Magnetic Resonance, 2017, 283, 33-44.	2.1	12
34	Myofibrillar distribution of succinate dehydrogenase activity and lipid stores differs in skeletal muscle tissue of paraplegic subjects. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E365-E373.	3.5	8
35	Interleaved fluidâ€attenuated inversion recovery (<scp>FLAIR</scp>) <scp>MRI</scp> and deuterium metabolic imaging (<scp>DMI</scp>) on human brain in vivo. Magnetic Resonance in Medicine, 2022, 88, 28-37.	3.0	8
36	Prefrontal Glutamate Neurotransmission in PTSD: A Novel Approach to Estimate Synaptic Strength in Vivo in Humans. Chronic Stress, 2022, 6, 247054702210927.	3.4	8

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37	Robust outer volume suppression utilizing elliptical pulsed second order fields (ECLIPSE) for human brain proton MRSI. Magnetic Resonance in Medicine, 2020, 83, 1539-1552.	3.0	7
38	In vivo proton observed carbon edited (POCE) ¹³C magnetic resonance spectroscopy of the rat brain using a volumetric transmitter and receiveâ€only surface coil on the proton channel. Magnetic Resonance in Medicine, 2018, 79, 628-635.	3.0	6
39	Methods | 13C MRS Measurements of in Vivo Rates of the Glutamate/Glutamine and GABA/Glutamine Neurotransmitter Cycles. , 2021, , 688-700.		2
40	ECLIPSE utilizing gradientâ€modulated offsetâ€independent adiabaticity (GOIA) pulses for highly selective human brain proton MRSI. NMR in Biomedicine, 2021, 34, e4415.	2.8	2
41	â€œWhat to eat or what not to eatâ€”that is still the questionâ€ Reply. Neuro-Oncology, 2017, 19, 596-597.	1.2	1
42	Short symmetric and highly selective asymmetric first and second order gradient modulated offset independent adiabaticity (GOIA) pulses for applications in clinical MRS and MRSI. Journal of Magnetic Resonance, 2022, 341, 107247.	2.1	1