

David R Owen

List of Publications by Year in descending order

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55
papers

4,347
citations

136740

32
h-index

161609

54
g-index

60
all docs

60
docs citations

60
times ranked

6047
citing authors

#	ARTICLE	IF	CITATIONS
1	An 18-kDa Translocator Protein (TSPO) Polymorphism Explains Differences in Binding Affinity of the PET Radioligand PBR28. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1-5.	2.4	642
2	Microglial Activity in People at Ultra High Risk of Psychosis and in Schizophrenia: An [¹¹ C]PBR28 PET Brain Imaging Study. <i>American Journal of Psychiatry</i> , 2016, 173, 44-52.	4.0	382
3	Mixed-Affinity Binding in Humans with 18-kDa Translocator Protein Ligands. <i>Journal of Nuclear Medicine</i> , 2011, 52, 24-32.	2.8	330
4	Roles of microglia in brain development, tissue maintenance and repair. <i>Brain</i> , 2015, 138, 1138-1159.	3.7	316
5	Two Binding Sites for [³ H]PBR28 in Human Brain: Implications for TSPO PET Imaging of Neuroinflammation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1608-1618.	2.4	187
6	Pro-inflammatory activation of primary microglia and macrophages increases 18-kDa translocator protein expression in rodents but not humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2679-2690.	2.4	153
7	Minocycline reduces chronic microglial activation after brain trauma but increases neurodegeneration. <i>Brain</i> , 2018, 141, 459-471.	3.7	143
8	Medical consequences of pathogenic CNVs in adults: analysis of the UK Biobank. <i>Journal of Medical Genetics</i> , 2019, 56, 131-138.	1.5	121
9	Determination of [¹¹ C]PBR28 Binding Potential <i>in vivo</i> : A First Human TSPO Blocking Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 989-994.	2.4	117
10	PET imaging of neuroinflammation in neurological disorders. <i>Lancet Neurology</i> , The, 2020, 19, 940-950.	4.9	117
11	Quantification of the Specific Translocator Protein Signal of ¹⁸ F-PBR111 in Healthy Humans: A Genetic Polymorphism Effect on In Vivo Binding. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1915-1923.	2.8	105
12	Hippocampal Neuroinflammation, Functional Connectivity, and Depressive Symptoms in Multiple Sclerosis. <i>Biological Psychiatry</i> , 2016, 80, 62-72.	0.7	103
13	Imaging of Atherosclerosis. <i>Annual Review of Medicine</i> , 2011, 62, 25-40.	5.0	101
14	Cellular sources of TSPO expression in healthy and diseased brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 49, 146-163.	3.3	85
15	Inflammation within Carotid Atherosclerotic Plaque: Assessment with Late-Phase Contrast-enhanced US. <i>Radiology</i> , 2010, 255, 638-644.	3.6	82
16	In Vivo Assessment of Brain White Matter Inflammation in Multiple Sclerosis with ¹⁸ F-PBR111 PET. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1112-1118.	2.8	82
17	<i>TSPO</i> mutations in rats and a human polymorphism impair the rate of steroid synthesis. <i>Biochemical Journal</i> , 2017, 474, 3985-3999.	1.7	80
18	Comparison of four ¹¹ C-labeled PET ligands to quantify translocator protein 18kDa (TSPO) in human brain: (R)-PK11195, PBR28, DPA-713, and ER176 based on recent publications that measured specific-to-non-displaceable ratios. <i>EJNMMI Research</i> , 2017, 7, 84.	1.1	80

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19	Diverse human astrocyte and microglial transcriptional responses to Alzheimer's pathology. <i>Acta Neuropathologica</i> , 2022, 143, 75-91.	3.9	80
20	Direct and Indirect Effects of Immune and Central Nervous System Resident Cells on Human Oligodendrocyte Progenitor Cell Differentiation. <i>Journal of Immunology</i> , 2015, 194, 761-772.	0.4	75
21	A quantitative neuropathological assessment of translocator protein expression in multiple sclerosis. <i>Brain</i> , 2019, 142, 3440-3455.	3.7	75
22	Identifying improved TSPO PET imaging probes through biomathematics: The impact of multiple TSPO binding sites in vivo. <i>NeuroImage</i> , 2012, 60, 902-910.	2.1	73
23	Effects of pathogenic CNVs on physical traits in participants of the UK Biobank. <i>BMC Genomics</i> , 2018, 19, 867.	1.2	61
24	The macrophage marker translocator protein (TSPO) is down-regulated on pro-inflammatory M1 human macrophages. <i>PLoS ONE</i> , 2017, 12, e0185767.	1.1	59
25	¹¹ C-PBR28 and ¹⁸ F-PBR111 Detect White Matter Inflammatory Heterogeneity in Multiple Sclerosis. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1477-1482.	2.8	57
26	¹¹ C-DPA-713 has much greater specific binding to translocator protein 18 kDa (TSPO) in human brain than ¹¹ C- <i>R</i> -PK11195. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 393-403.	2.4	51
27	Bipolar Disorder is associated with the rs6971 polymorphism in the gene encoding 18kDa Translocator Protein (TSPO). <i>Psychoneuroendocrinology</i> , 2013, 38, 2826-2829.	1.3	47
28	Activated microglia do not increase 18 kDa translocator protein (TSPO) expression in the multiple sclerosis brain. <i>Glia</i> , 2021, 69, 2447-2458.	2.5	47
29	Translocator Protein as an Imaging Marker of Macrophage and Stromal Activation in Rheumatoid Arthritis Pannus. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1125-1132.	2.8	46
30	Phenibut (4-amino-3-phenylbutyric acid): Availability, prevalence of use, desired effects and acute toxicity. <i>Drug and Alcohol Review</i> , 2016, 35, 591-596.	1.1	44
31	Variation in binding affinity of the novel anxiolytic XBD173 for the 18 kDa translocator protein in human brain. <i>Synapse</i> , 2011, 65, 257-259.	0.6	42
32	A Graphical Method to Compare the <i>in vivo</i> Binding Potential of PET Radioligands in the Absence of a Reference Region: Application to [¹¹ C]PBR28 and [¹⁸ F]PBR111 for TSPO Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1162-1168.	2.4	38
33	Teaching integrated care: CAM familiarisation courses. <i>Medical Journal of Australia</i> , 2004, 181, 276-278.	0.8	34
34	Confirmation of Specific Binding of the 18-kDa Translocator Protein (TSPO) Radioligand [18F]GE-180: a Blocking Study Using XBD173 in Multiple Sclerosis Normal Appearing White and Grey Matter. <i>Molecular Imaging and Biology</i> , 2019, 21, 935-944.	1.3	32
35	The impact of the rs6971 polymorphism in TSPO for quantification and study design. <i>Clinical and Translational Imaging</i> , 2015, 3, 417-422.	1.1	28
36	Microglial positron emission tomography (PET) imaging in epilepsy: Applications, opportunities and pitfalls. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2017, 44, 42-47.	0.9	28

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37	Cross-platform transcriptional profiling identifies common and distinct molecular pathologies in Lewy body diseases. <i>Acta Neuropathologica</i> , 2021, 142, 449-474.	3.9	27
38	Identification and Assessment of Plasma Lysozyme as a Putative Biomarker of Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1027-1033.	1.1	23
39	Advances in positron emission tomography for the imaging of rheumatoid arthritis. <i>Rheumatology</i> , 2017, 56, 1837-1846.	0.9	22
40	Evidence of Brain Inflammation in Patients with Human T-Lymphotropic Virus Type 1-Associated Myelopathy (HAM): A Pilot, Multimodal Imaging Study Using ¹¹ C-PBR28 PET, MR T1-Weighted, and Diffusion-Weighted Imaging. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1905-1912.	2.8	18
41	Stratified medicine in psychiatry: a worrying example or new opportunity in the treatment of anxiety?. <i>Journal of Psychopharmacology</i> , 2013, 27, 119-122.	2.0	16
42	Assessment of Global Liver Blood Flow With Quantitative Dynamic Contrast-Enhanced Ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2011, 30, 379-385.	0.8	13
43	Preclinical evaluation of (S)-[18F]GE387, a novel 18-kDa translocator protein (TSPO) PET radioligand with low binding sensitivity to human polymorphism rs6971. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 49, 125-136.	3.3	11
44	A case report of nifedipine-induced hepatitis with jaundice. <i>BMC Research Notes</i> , 2018, 11, 228.	0.6	10
45	Using prescribing very short answer questions to identify sources of medication errors: a prospective study in two UK medical schools. <i>BMJ Open</i> , 2019, 9, e028863.	0.8	10
46	Intravenous Furosemide for Acute Decompensated Congestive Heart Failure: What Is the Evidence?. <i>Clinical Pharmacology and Therapeutics</i> , 2015, 98, 119-121.	2.3	7
47	<p>Using team-based revision to prepare medical students for the prescribing safety assessment</p>. <i>Advances in Medical Education and Practice</i> , 2019, Volume 10, 501-506.	0.7	7
48	18F-GE180, a radioligand for the TSPO protein: not ready for clinical trials in multiple sclerosis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2242-2243.	3.3	4
49	Specific and non-specific binding of a tracer for the translocator-specific protein in schizophrenia: an [11C]-PBR28 blocking study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3530-3539.	3.3	4
50	The effect of doxorubicin loading on response and toxicity with drug-eluting embolization in resectable hepatoma: a dose escalation study. <i>Anticancer Research</i> , 2014, 34, 3597-606.	0.5	4
51	Human pharmacokinetics of XBD173 and etifoxine distinguish their potential for pharmacodynamic effects mediated by TSPO. <i>British Journal of Clinical Pharmacology</i> , 2022, , .	1.1	4
52	In Response to Letter from Fregonara et al. 2019. <i>Molecular Imaging and Biology</i> , 2020, 22, 13-14.	1.3	2
53	Imaging immune responses in neuroinflammatory diseases. <i>Clinical and Experimental Immunology</i> , 2021, 206, 248-250.	1.1	2
54	Complementary and alternative medicine (CAM) in the undergraduate medical curriculum: the Southampton experience. <i>Medical Education</i> , 2008, 35, 73-77.	1.1	0

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55	PBR28, PBR06 and PBR111 bind two distinct TSPO sites in human brain tissue. <i>NeuroImage</i> , 2010, 52, S30-S31.	2.1	0