

Pravat K Mandal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

1,875
citations

24
h-index

42
g-index

82
ext. papers

2,266
ext. citations

3.8
avg. IF

5.21
L-index

#	Paper	IF	Citations
64	Comparison of seven modelling algorithms for GABA-edited H-MRS.. <i>NMR in Biomedicine</i> , 2022 , e4702	4.4	1
63	In Vivo C Magnetic Resonance Spectroscopy for Assessing Brain Biochemistry in Health and Disease.. <i>Neurochemical Research</i> , 2022 , 47, 1183	4.6	0
62	AD Hypotheses and Suggested Clinical Trials. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 3968-3971	5.7	0
61	Hippocampal Glutathione Depletion and pH Increment in Alzheimer's Disease: An in vivo MRS Study. <i>Journal of Alzheimer's Disease</i> , 2021 , 84, 1139-1152	4.3	1
60	Comparative contribution of magnetoencephalography (MEG) and single-photon emission computed tomography (SPECT) in pre-operative localization for epilepsy surgery: A prospective blinded study. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2021 , 86, 181-188	3.2	3
59	Brain Imaging in COVID-19. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 2953-2955	5.7	1
58	PRATEEK: Integration of Multimodal Neuroimaging Data to Facilitate Advanced Brain Research. <i>Journal of Alzheimer's Disease</i> , 2021 , 83, 305-317	4.3	
57	Brain Stress Mapping in COVID-19 Survivors Using MR Spectroscopy: New Avenue of Mental Health Status Monitoring\$. <i>Journal of Alzheimer's Disease</i> , 2021 , 83, 523-530	4.3	1
56	BRAHMA: Population specific T1, T2, and FLAIR weighted brain templates and their impact in structural and functional imaging studies. <i>Magnetic Resonance Imaging</i> , 2020 , 70, 5-21	3.3	6
55	ANSH: Multimodal Neuroimaging Database Including MR Spectroscopic Data From Each Continent to Advance Alzheimer's Disease Research. <i>Frontiers in Neuroinformatics</i> , 2020 , 14, 571039	3.9	0
54	Quantitation of in vivo brain glutathione conformers in cingulate cortex among age-matched control, MCI, and AD patients using MEGA-PRESS. <i>Human Brain Mapping</i> , 2020 , 41, 194-217	5.9	21
53	Glutathione in Brain: Overview of Its Conformations, Functions, Biochemical Characteristics, Quantitation and Potential Therapeutic Role in Brain Disorders. <i>Neurochemical Research</i> , 2020 , 45, 1461-1480	4.6	28
52	Cognitive Improvement with Glutathione Supplement in Alzheimer's Disease: A Way Forward. <i>Journal of Alzheimer's Disease</i> , 2019 , 68, 531-535	4.3	23
51	BHARAT: An Integrated Big Data Analytic Model for Early Diagnostic Biomarker of Alzheimer's Disease. <i>Frontiers in Neurology</i> , 2019 , 10, 9	4.1	9
50	Brain Metabolic, Structural, and Behavioral Pattern Learning for Early Predictive Diagnosis of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018 , 63, 935-939	4.3	7
49	A Multi-Center Study on Human Brain Glutathione Conformation using Magnetic Resonance Spectroscopy. <i>Journal of Alzheimer's Disease</i> , 2018 , 66, 517-532	4.3	17
48	A Comprehensive Review of Magnetoencephalography (MEG) Studies for Brain Functionality in Healthy Aging and Alzheimer's Disease (AD). <i>Frontiers in Computational Neuroscience</i> , 2018 , 12, 60	3.5	32

47	High-Accuracy Classification of Parkinson's Disease Through Shape Analysis and Surface Fitting in 123I-Ioflupane SPECT Imaging. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 794-802	7.2	41
46	Glutathione Conformations and Its Implications for in vivo Magnetic Resonance Spectroscopy. <i>Journal of Alzheimers Disease</i> , 2017 , 59, 537-541	4.3	12
45	The GABA-Working Memory Relationship in Alzheimer's Disease. <i>Journal of Alzheimers Disease Reports</i> , 2017 , 1, 43-45	3.3	6
44	Stimulus-dependent modulation of working memory for identity monitoring: A functional MRI study. <i>Brain and Cognition</i> , 2016 , 102, 55-64	2.7	3
43	High-Accuracy Detection of Early Parkinson's Disease through Multimodal Features and Machine Learning. <i>International Journal of Medical Informatics</i> , 2016 , 90, 13-21	5.3	85
42	Anesthesia Issues in Central Nervous System Disorders. <i>Current Aging Science</i> , 2016 , 9, 116-43	2.2	4
41	GABA quantitation using MEGA-PRESS: Regional and hemispheric differences. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 1619-1623	5.6	22
40	Brain glutathione levels--a novel biomarker for mild cognitive impairment and Alzheimer's disease. <i>Biological Psychiatry</i> , 2015 , 78, 702-10	7.9	150
39	Automatic classification and prediction models for early Parkinson's disease diagnosis from SPECT imaging. <i>Expert Systems With Applications</i> , 2014 , 41, 3333-3342	7.8	82
38	The emerging role of glutathione in Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , 2014 , 40, 519-294.3		109
37	BOLDSync: a MATLAB-based toolbox for synchronized stimulus presentation in functional MRI. <i>Journal of Neuroscience Methods</i> , 2014 , 223, 123-32	3	4
36	Shape features as biomarkers in early Parkinson's disease 2013 ,		7
35	Mapping of hippocampal pH and neurochemicals from in vivo multi-voxel 31P study in healthy normal young male/female, mild cognitive impairment, and Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , 2012 , 31 Suppl 3, S75-86	4.3	36
34	Brain oxidative stress: detection and mapping of anti-oxidant marker 'Glutathione' in different brain regions of healthy male/female, MCI and Alzheimer patients using non-invasive magnetic resonance spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 417, 43-8	3.4	125
33	In vivo proton magnetic resonance spectroscopic signal processing for the absolute quantitation of brain metabolites. <i>European Journal of Radiology</i> , 2012 , 81, e653-64	4.7	43
32	Structural brain atlases: design, rationale, and applications in normal and pathological cohorts. <i>Journal of Alzheimers Disease</i> , 2012 , 31 Suppl 3, S169-88	4.3	49
31	Visuospatial perception: an emerging biomarker for Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , 2012 , 31 Suppl 3, S117-35	4.3	58
30	A new experimental approach and signal processing scheme for the detection and quantitation of 31P brain neurochemicals from in vivo MRS studies using dual tuned (1H/31P) head coil. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 412, 302-6	3.4	8

29	Anaesthetics and postoperative cognitive dysfunction: a pathological mechanism mimicking Alzheimer's disease. <i>Anaesthesia</i> , 2010 , 65, 388-95	6.6	89
28	NMR investigations of amyloid- β peptide interactions with propofol at clinically relevant concentrations with and without aqueous halothane solution. <i>Journal of Alzheimers Disease</i> , 2010 , 21, 1303-9	4.3	21
27	Intravenous anesthetic diazepam does not induce amyloid-beta peptide oligomerization but diazepam co-administered with halothane oligomerizes amyloid-beta peptide: an NMR study. <i>Journal of Alzheimers Disease</i> , 2010 , 20, 127-34	4.3	37
26	Comprehensive nuclear magnetic resonance studies on interactions of amyloid- β with different molecular sized anesthetics. <i>Journal of Alzheimers Disease</i> , 2010 , 22 Suppl 3, 27-34	4.3	6
25	Anesthetics and Alzheimer's disease: background and research. Preface. <i>Journal of Alzheimers Disease</i> , 2010 , 22 Suppl 3, 1-3	4.3	7
24	In reply to: Can a call for prudence be simply alarmist?. <i>European Journal of Anaesthesiology</i> , 2010 , 27, 309-311	2.3	
23	Cholinergic central system, Alzheimer's disease, and anesthetics liaison: a vicious circle?. <i>Journal of Alzheimers Disease</i> , 2010 , 22 Suppl 3, 35-41	4.3	13
22	Isoflurane and desflurane at clinically relevant concentrations induce amyloid beta-peptide oligomerization: an NMR study. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 379, 716-20 ³⁻⁴	3.4	55
21	Smaller molecular-sized anaesthetics oligomerize Abeta peptide simulating Alzheimer's disease: a relevant issue. <i>European Journal of Anaesthesiology</i> , 2009 , 26, 805-6	2.3	7
20	Inhaled anesthesia and cognitive performance. <i>Drugs of Today</i> , 2009 , 45, 47-54	2.5	21
19	Abeta peptide interactions with isoflurane, propofol, thiopental and combined thiopental with halothane: a NMR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 2633-9	3.8	17
18	Clinically relevant concentration determination of inhaled anesthetics (halothane, isoflurane, sevoflurane, and desflurane) by ¹⁹ F NMR. <i>Cell Biochemistry and Biophysics</i> , 2008 , 52, 31-5	3.2	15
17	Magnetic resonance spectroscopy (MRS) and its application in Alzheimer's disease. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2007 , 30A, 40-64	0.6	36
16	Alzheimer's disease: halothane induces Abeta peptide to oligomeric form--solution NMR studies. <i>Neurochemical Research</i> , 2006 , 31, 883-90	4.6	24
15	Interaction between Abeta peptide and alpha synuclein: molecular mechanisms in overlapping pathology of Alzheimer's and Parkinson's in dementia with Lewy body disease. <i>Neurochemical Research</i> , 2006 , 31, 1153-62	4.6	164
14	Alzheimer's disease: NMR studies of asialo (GM1) and trisialo (GT1b) ganglioside interactions with Abeta(1-40) peptide in a membrane mimic environment. <i>Neurochemical Research</i> , 2004 , 29, 447-53	4.6	30
13	Alzheimer's disease: soluble oligomeric Abeta(1-40) peptide in membrane mimic environment from solution NMR and circular dichroism studies. <i>Neurochemical Research</i> , 2004 , 29, 2267-72	4.6	51
12	Interactions of Abeta(1-40) with glycerophosphocholine and intact erythrocyte membranes: fluorescence and circular dichroism studies. <i>Neurochemical Research</i> , 2004 , 29, 2273-9	4.6	7

11	A comprehensive discussion of HSQC and HMQC pulse sequences. <i>Concepts in Magnetic Resonance</i> , 2004 , 20A, 1-23		54
10	NMR structure and backbone dynamics of the extended second transmembrane domain of the human neuronal glycine receptor alpha1 subunit. <i>Biochemistry</i> , 2003 , 42, 3989-95	3.2	25
9	Cross-correlation effects involving curie spin relaxation in methyl groups. <i>Journal of Magnetic Resonance</i> , 2002 , 155, 29-38	3	9
8	Complete NMR Spectroscopic Assignment of a Neuronal Transduction Protein. <i>Monatshefte Für Chemie</i> , 2002 , 133, 205-217	1.4	3
7	Effects of volatile anesthetic on channel structure of gramicidin A. <i>Biophysical Journal</i> , 2002 , 83, 1413-20.	2.9	19
6	NMR structures of the second transmembrane domain of the human glycine receptor alpha(1) subunit: model of pore architecture and channel gating. <i>Biophysical Journal</i> , 2002 , 83, 252-62	2.9	46
5	Geometry dependent two-dimensional heteronuclear multiplet effects in paramagnetic proteins. <i>Journal of Biomolecular NMR</i> , 2001 , 20, 31-7	3	23
4	A pyrophosphate bridge links the pyruvate-containing secondary cell wall polymer of <i>Paenibacillus alvei</i> CCM 2051 to muramic acid. <i>Glycoconjugate Journal</i> , 2000 , 17, 681-90	3	30
3	Solution 1H NMR investigation of the heme cavity and substrate binding site in cyanide-inhibited horseradish peroxidase. <i>Biochemistry</i> , 1999 , 38, 1077-86	3.2	21
2	A Comprehensive Study of Exchange Coupling in a Macrocyclic Binuclear Copper(II) Complex in the Solid and Solution States. <i>Inorganic Chemistry</i> , 1995 , 34, 270-277	5.1	23
1	Effect of the fifth coordination site on the spin states of bis(benzoylacetylacetonato)bispyridinedicopper(II) complex. <i>Chemical Physics Letters</i> , 1993 , 210, 463-470.	2.5	4