Pravat K Mandal

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Brain Glutathione Levels – A Novel Biomarker for Mild Cognitive Impairment and Alzheimer's Disease. Biological Psychiatry, 2015, 78, 702-710.	1.3	227
2	Interaction between Aβ Peptide and α Synuclein: Molecular Mechanisms in Overlapping Pathology of Alzheimer's and Parkinson's in Dementia with Lewy Body Disease. Neurochemical Research, 2006, 31, 1153-1162.	3.3	193
3	Brain oxidative stress: Detection and mapping of anti-oxidant marker â€~Glutathione' in different brain regions of healthy male/female, MCI and Alzheimer patients using non-invasive magnetic resonance spectroscopy. Biochemical and Biophysical Research Communications, 2012, 417, 43-48.	2.1	164
4	High-Accuracy Detection of Early Parkinson's Disease through Multimodal Features and Machine Learning. International Journal of Medical Informatics, 2016, 90, 13-21.	3.3	146
5	The Emerging Role of Glutathione in Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 40, 519-529.	2.6	139
6	Anaesthetics and postoperative cognitive dysfunction: a pathological mechanism mimicking Alzheimer's disease. Anaesthesia, 2010, 65, 388-395.	3.8	136
7	Automatic classification and prediction models for early Parkinson's disease diagnosis from SPECT imaging. Expert Systems With Applications, 2014, 41, 3333-3342.	7.6	109
8	A Comprehensive Review of Magnetoencephalography (MEG) Studies for Brain Functionality in Healthy Aging and Alzheimer's Disease (AD). Frontiers in Computational Neuroscience, 2018, 12, 60.	2.1	78
9	Visuospatial Perception: An Emerging Biomarker for Alzheimer's Disease. Journal of Alzheimer's Disease, 2012, 31, S117-S135.	2.6	75
10	Glutathione in Brain: Overview of Its Conformations, Functions, Biochemical Characteristics, Quantitation and Potential Therapeutic Role in Brain Disorders. Neurochemical Research, 2020, 45, 1461-1480.	3.3	75
11	A comprehensive discussion of HSQC and HMQC pulse sequences. Concepts in Magnetic Resonance, 2004, 20A, 1-23.	1.3	71
12	In vivo proton magnetic resonance spectroscopic signal processing for the absolute quantitation of brain metabolites. European Journal of Radiology, 2012, 81, e653-e664.	2.6	67
13	High-Accuracy Classification of Parkinson's Disease Through Shape Analysis and Surface Fitting in 1231-Ioflupane SPECT Imaging. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 794-802.	6.3	66
14	Structural Brain Atlases: Design, Rationale, and Applications in Normal and Pathological Cohorts. Journal of Alzheimer's Disease, 2012, 31, S169-S188.	2.6	65
15	Isoflurane and desflurane at clinically relevant concentrations induce amyloid β-peptide oligomerization: An NMR study. Biochemical and Biophysical Research Communications, 2009, 379, 716-720.	2.1	62
16	Alzheimer?s Disease: Soluble Oligomeric A?(1?40) Peptide in Membrane Mimic Environment from Solution NMR and Circular Dichroism Studies. Neurochemical Research, 2004, 29, 2267-2272.	3.3	56
17	Magnetic resonance spectroscopy (MRS) and its application in Alzheimer's disease. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2007, 30A, 40-64.	0.5	54
18	NMR Structures of the Second Transmembrane Domain of the Human Glycine Receptor α1 Subunit: Model of Pore Architecture and Channel Gating. Biophysical Journal, 2002, 83, 252-262.	0.5	48

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19	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. Journal of Alzheimer's Disease, 2012, 31, S75-S86.	2.6	48
20	Cognitive Improvement with Glutathione Supplement in Alzheimer's Disease: A Way Forward. Journal of Alzheimer's Disease, 2019, 68, 531-535.	2.6	45
21	Quantitation of in vivo brain glutathione conformers in cingulate cortex among ageâ€matched control, MCI, and AD patients using MEGAâ€PRESS. Human Brain Mapping, 2020, 41, 194-217.	3.6	45
22	Intravenous Anesthetic Diazepam Does Not Induce Amyloid-β Peptide Oligomerization but Diazepam Co-administered with Halothane Oligomerizes Amyloid-β Peptide: An NMR Study. Journal of Alzheimer's Disease, 2010, 20, 127-134.	2.6	44
23	Alzheimer's Disease: NMR Studies of Asialo (GM1) and Trisialo (GT1b) Ganglioside Interactions with AÂ(1-40) Peptide in a Membrane Mimic Environment. Neurochemical Research, 2004, 29, 447-453.	3.3	39
24	A pyrophosphate bridge links the pyruvate-containing secondary cell wall polymer of Paenibacillus alvei CCM 2051 to muramic acid. Glycoconjugate Journal, 2000, 17, 681-690.	2.7	34
25	GABA quantitation using MEGA-PRESS: Regional and hemispheric differences. Journal of Magnetic Resonance Imaging, 2016, 44, 1619-1623.	3.4	31
26	Alzheimer's Disease: Halothane Induces Aβ Peptide to Oligomeric Form—Solution NMR Studies. Neurochemical Research, 2006, 31, 883-890.	3.3	29
27	Inhaled anesthesia and cognitive performance. Drugs of Today, 2009, 45, 47.	1.1	29
28	NMR Structure and Backbone Dynamics of the Extended Second Transmembrane Domain of the Human Neuronal Glycine Receptor α1 Subunit. Biochemistry, 2003, 42, 3989-3995.	2.5	27
29	NMR Investigations of Amyloid-Î ² Peptide Interactions with Propofol at Clinically Relevant Concentrations with and without Aqueous Halothane Solution. Journal of Alzheimer's Disease, 2010, 21, 1303-1309.	2.6	27
30	Aβ peptide interactions with isoflurane, propofol, thiopental and combined thiopental with halothane: A NMR study. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2633-2639.	2.6	26
31	A Multi-Center Study on Human Brain Glutathione Conformation using Magnetic Resonance Spectroscopy. Journal of Alzheimer's Disease, 2018, 66, 517-532.	2.6	26
32	A Comprehensive Study of Exchange Coupling in a Macrocyclic Binuclear Copper(II) Complex in the Solid and Solution States. Inorganic Chemistry, 1995, 34, 270-277.	4.0	24
33	Solution 1H NMR Investigation of the Heme Cavity and Substrate Binding Site in Cyanide-Inhibited Horseradish Peroxidase. Biochemistry, 1999, 38, 1077-1086.	2.5	24
34	Geometry dependent two-dimensional heteronuclear multiplet effects in paramagnetic proteins. Journal of Biomolecular NMR, 2001, 20, 31-37.	2.8	24
35	Smaller molecular-sized anaesthetics oligomerize Aβ peptide simulating Alzheimer's disease: a relevant issue. European Journal of Anaesthesiology, 2009, 26, 805-806.	1.7	20
36	Comparison of seven modelling algorithms for γâ€ a minobutyric acid–edited proton magnetic resonance spectroscopy. NMR in Biomedicine, 2022, 35, e4702.	2.8	20

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37	Effects of Volatile Anesthetic on Channel Structure of Gramicidin A. Biophysical Journal, 2002, 83, 1413-1420.	0.5	19
38	Clinically Relevant Concentration Determination of Inhaled Anesthetics (Halothane, Isoflurane,) Tj ETQq0 0 0 rgBT	/Oyerlock 1.8	10 Tf 50 70
39	Cholinergic Central System, Alzheimer's Disease, and Anesthetics Liaison: A Vicious Circle?. Journal of Alzheimer's Disease, 2010, 22, S35-S41.	2.6	17
40	Glutathione Conformations and Its Implications for in vivo Magnetic Resonance Spectroscopy. Journal of Alzheimer's Disease, 2017, 59, 537-541.	2.6	16
41	BRAHMA: Population specific T1, T2, and FLAIR weighted brain templates and their impact in structural and functional imaging studies. Magnetic Resonance Imaging, 2020, 70, 5-21.	1.8	16
42	The GABA–Working Memory Relationship in Alzheimer's Disease. Journal of Alzheimer's Disease Reports, 2017, 1, 43-45.	2.2	15
43	BHARAT: An Integrated Big Data Analytic Model for Early Diagnostic Biomarker of Alzheimer's Disease. Frontiers in Neurology, 2019, 10, 9.	2.4	14
44	KALPANA: Advanced Spectroscopic Signal Processing Platform for Improved Accuracy to Aid in Early Diagnosis of Brain Disorders in Clinical Setting. Journal of Alzheimer's Disease, 2020, 75, 397-402.	2.6	13
45	Cross-Correlation Effects Involving Curie Spin Relaxation in Methyl Groups. Journal of Magnetic Resonance, 2002, 155, 29-38.	2.1	12
46	Hippocampal Glutathione Depletion and pH Increment in Alzheimer's Disease: An in vivo MRS Study. Journal of Alzheimer's Disease, 2021, 84, 1139-1152.	2.6	12
47	Brain Metabolic, Structural, and Behavioral Pattern Learning for Early Predictive Diagnosis of Alzheimer's Disease. Journal of Alzheimer's Disease, 2018, 63, 935-939.	2.6	10
48	Comparative contribution of magnetoencephalography (MEG) and single-photon emission computed tomography (SPECT) in pre-operative localization for epilepsy surgery: A prospective blinded study. Seizure: the Journal of the British Epilepsy Association, 2021, 86, 181-188.	2.0	10
49	Comprehensive Nuclear Magnetic Resonance Studies on Interactions of Amyloid-Î ² with Different Molecular Sized Anesthetics. Journal of Alzheimer's Disease, 2010, 22, S27-S34.	2.6	9
50	Anesthetics and Alzheimer's Disease: Background and Research. Journal of Alzheimer's Disease, 2010, 22, S1-S3.	2.6	9
51	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. Biochemical and Biophysical Research Communications, 2011, 412, 302-306.	2.1	9
52	Predictive Biomarkers for Alzheimer's Disease Using State-of-the-Art Brain Imaging Techniques. Journal of Alzheimer's Disease, 2012, 31, S1-S3.	2.6	9
53	AD Hypotheses and Suggested Clinical Trials. ACS Chemical Neuroscience, 2021, 12, 3968-3971.	3.5	9

54Interactions of A?(1?40) with Glycerophosphocholine and Intact Erythrocyte Membranes:
Fluorescence and Circular Dichroism Studies. Neurochemical Research, 2004, 29, 2273-2279.3.38

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55	Shape features as biomarkers in early Parkinson's disease. , 2013, , .		8
56	Apps for Dementia Screening: AÂCost-effective and Portable Solution. Journal of Alzheimer's Disease, 2015, 47, 869-872.	2.6	8
57	Cohort Profile: The LoCARPoN—a population-based prospective cohort study in middle-aged and older adults in India. International Journal of Epidemiology, 2022, 51, 29-30m.	1.9	7
58	In Vivo 13C Magnetic Resonance Spectroscopy for Assessing Brain Biochemistry in Health and Disease. Neurochemical Research, 2022, 47, 1183-1201.	3.3	7
59	Editorial. Journal of Alzheimer's Disease, 2010, 22, S135-S136.	2.6	5
60	BOLDSync: A MATLAB-based toolbox for synchronized stimulus presentation in functional MRI. Journal of Neuroscience Methods, 2014, 223, 123-132.	2.5	5
61	Brain Imaging in COVID-19. ACS Chemical Neuroscience, 2021, 12, 2953-2955.	3.5	5
62	Effect of the fifth coordination site on the spin states of bis(benzoylacetylacetanato)bispyridinedicopper(II) complex. Chemical Physics Letters, 1993, 210, 463-470.	2.6	4
63	Anesthetics and its Impact on the Brain and Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 39, 223-225.	2.6	4
64	Stimulus-dependent modulation of working memory for identity monitoring: A functional MRI study. Brain and Cognition, 2016, 102, 55-64.	1.8	4
65	Brain Stress Mapping in COVID-19 Survivors Using MR Spectroscopy: New Avenue of Mental Health Status Monitoring\$. Journal of Alzheimer's Disease, 2021, 83, 523-530.	2.6	4
66	Anesthesia Issues in Central Nervous System Disorders. Current Aging Science, 2016, 9, 116-143.	1.2	4
67	SWADESH: A Comprehensive Platform for Multimodal Data and Analytics for Advanced Research in Alzheimer's Disease and Other Brain Disorders. Journal of Alzheimer's Disease, 2021, , 1-5.	2.6	4
68	Complete NMR Spectroscopic Assignment of a Neuronal Transduction Protein. Monatshefte Für Chemie, 2002, 133, 205-217.	1.8	3
69	Interplay Between Hippocampal Glutathione Depletion and pH Increment in Alzheimer's Disease. Journal of Alzheimer's Disease, 2022, 88, 1-6.	2.6	3
70	Editorial: Predictive Imagable Biomarkers for Neurodegenerative and Neurodevelopmental Diseases. Frontiers in Neurology, 2019, 10, 583.	2.4	2
71	Comprehensive Account of Sodium Imaging and Spectroscopy for Brain Research. ACS Chemical Neuroscience, 2022, 13, 859-875.	3.5	2
72	ANSH: Multimodal Neuroimaging Database Including MR Spectroscopic Data From Each Continent to Advance Alzheimer's Disease Research. Frontiers in Neuroinformatics, 2020, 14, 571039.	2.5	1

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73	In reply to: Can a call for prudence be simply alarmist?. European Journal of Anaesthesiology, 2010, 27, 309-311.	1.7	Ο
74	Detection of Anti-Oxidant Marker in Normal Subjects and Patients with Neurodegenerative Disorders using in Vivo Magnetic Resonance Spectroscopy. Biophysical Journal, 2010, 98, 746a.	0.5	0
75	PRATEEK: Integration of Multimodal Neuroimaging Data to Facilitate Advanced Brain Research. Journal of Alzheimer's Disease, 2021, 83, 305-317.	2.6	Ο