Pravat K Mandal

List of Publications by Year
in descending order

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75 papers	2,697 citations	201674 27 h-index	189892 50 g-index
82 all docs	82 docs citations	82 times ranked	3745 citing authors

#	Article	IF	Citations
1	Cohort Profile: The LoCARPoNâ€"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
2	Comparison of seven modelling algorithms for Î³â€aminobutyric acidâ€"edited proton magnetic resonance spectroscopy. NMR in Biomedicine, 2022, 35, e4702.	2.8	20
3	In Vivo 13C Magnetic Resonance Spectroscopy for Assessing Brain Biochemistry in Health and Disease. Neurochemical Research, 2022, 47, 1183-1201.	3.3	7
4	Comprehensive Account of Sodium Imaging and Spectroscopy for Brain Research. ACS Chemical Neuroscience, 2022, 13, 859-875.	3.5	2
5	Interplay Between Hippocampal Glutathione Depletion and pH Increment in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2022, 88, 1-6.	2.6	3
6	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
7	Brain Imaging in COVID-19. ACS Chemical Neuroscience, 2021, 12, 2953-2955.	3.5	5
8	PRATEEK: Integration of Multimodal Neuroimaging Data to Facilitate Advanced Brain Research. Journal of Alzheimer's Disease, 2021, 83, 305-317.	2.6	0
9	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
10	Hippocampal Glutathione Depletion and pH Increment in Alzheimerâ€™s Disease: An in vivo MRS Study. Journal of Alzheimer's Disease, 2021, 84, 1139-1152.	2.6	12
11	AD Hypotheses and Suggested Clinical Trials. ACS Chemical Neuroscience, 2021, 12, 3968-3971.	3.5	9
12	SWADESH: A Comprehensive Platform for Multimodal Data and Analytics for Advanced Research in Alzheimerâ€™s Disease and Other Brain Disorders. Journal of Alzheimer's Disease, 2021, , 1-5.	2.6	4
13	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
14	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
15	ANSH: Multimodal Neuroimaging Database Including MR Spectroscopic Data From Each Continent to Advance Alzheimerâ€™s Disease Research. Frontiers in Neuroinformatics, 2020, 14, 571039.	2.5	1
16	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
17	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
18	Editorial: Predictive Imagable Biomarkers for Neurodegenerative and Neurodevelopmental Diseases. Frontiers in Neurology, 2019, 10, 583.	2.4	2

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19	Cognitive Improvement with Glutathione Supplement in Alzheimerâ€™s Disease: A Way Forward. Journal of Alzheimer's Disease, 2019, 68, 531-535.	2.6	45
20	BHARAT: An Integrated Big Data Analytic Model for Early Diagnostic Biomarker of Alzheimer's Disease. Frontiers in Neurology, 2019, 10, 9.	2.4	14
21	Brain Metabolic, Structural, and Behavioral Pattern Learning for Early Predictive Diagnosis of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2018, 63, 935-939.	2.6	10
22	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
23	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
24	High-Accuracy Classification of Parkinson's Disease Through Shape Analysis and Surface Fitting in 123I-Ioflupane SPECT Imaging. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 794-802.	6.3	66
25	The GABAâ€“Working Memory Relationship in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease Reports, 2017, 1, 43-45.	2.2	15
26	Glutathione Conformations and Its Implications for in vivo Magnetic Resonance Spectroscopy. Journal of Alzheimer's Disease, 2017, 59, 537-541.	2.6	16
27	GABA quantitation using MEGA-PRESS: Regional and hemispheric differences. Journal of Magnetic Resonance Imaging, 2016, 44, 1619-1623.	3.4	31
28	Stimulus-dependent modulation of working memory for identity monitoring: A functional MRI study. Brain and Cognition, 2016, 102, 55-64.	1.8	4
29	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
30	Anesthesia Issues in Central Nervous System Disorders. Current Aging Science, 2016, 9, 116-143.	1.2	4
31	Apps for Dementia Screening: AÂCost-effective and Portable Solution. Journal of Alzheimer's Disease, 2015, 47, 869-872.	2.6	8
32	Brain Glutathione Levels â€“ A Novel Biomarker for Mild Cognitive Impairment and Alzheimerâ€™s Disease. Biological Psychiatry, 2015, 78, 702-710.	1.3	227
33	Anesthetics and its Impact on the Brain and Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 39, 223-225.	2.6	4
34	The Emerging Role of Glutathione in Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 40, 519-529.	2.6	139
35	BOLDSync: A MATLAB-based toolbox for synchronized stimulus presentation in functional MRI. Journal of Neuroscience Methods, 2014, 223, 123-132.	2.5	5
36	Automatic classification and prediction models for early Parkinsonâ€™s disease diagnosis from SPECT imaging. Expert Systems With Applications, 2014, 41, 3333-3342.	7.6	109

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37	Shape features as biomarkers in early Parkinson's disease. , 2013, , .		8
38	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
39	Visuospatial Perception: An Emerging Biomarker for Alzheimer's Disease. Journal of Alzheimer's Disease, 2012, 31, S117-S135.	2.6	75
40	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
41	Brain oxidative stress: Detection and mapping of anti-oxidant marker â€˜Glutathioneâ€™ 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
42	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
43	Structural Brain Atlases: Design, Rationale, and Applications in Normal and Pathological Cohorts. Journal of Alzheimer's Disease, 2012, 31, S169-S188.	2.6	65
44	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
45	In reply to: Can a call for prudence be simply alarmist?. European Journal of Anaesthesiology, 2010, 27, 309-311.	1.7	0
46	Cholinergic Central System, Alzheimer's Disease, and Anesthetics Liaison: A Vicious Circle?. Journal of Alzheimer's Disease, 2010, 22, S35-S41.	2.6	17
47	Anaesthetics and postoperative cognitive dysfunction: a pathological mechanism mimicking Alzheimerâ€™s disease. Anaesthesia, 2010, 65, 388-395.	3.8	136
48	NMR Investigations of Amyloid-Î² 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
49	Intravenous Anesthetic Diazepam Does Not Induce Amyloid-Î² Peptide Oligomerization but Diazepam Co-administered with Halothane Oligomerizes Amyloid-Î² Peptide: An NMR Study. Journal of Alzheimer's Disease, 2010, 20, 127-134.	2.6	44
50	Comprehensive Nuclear Magnetic Resonance Studies on Interactions of Amyloid-Î² with Different Molecular Sized Anesthetics. Journal of Alzheimer's Disease, 2010, 22, S27-S34.	2.6	9
51	Editorial. Journal of Alzheimer's Disease, 2010, 22, S135-S136.	2.6	5
52	Anesthetics and Alzheimer's Disease: Background and Research. Journal of Alzheimer's Disease, 2010, 22, S1-S3.	2.6	9
53	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
54	Isoflurane and desflurane at clinically relevant concentrations induce amyloid Î²-peptide oligomerization: An NMR study. Biochemical and Biophysical Research Communications, 2009, 379, 716-720.	2.1	62

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55	Smaller molecular-sized anaesthetics oligomerize AÎ² peptide simulating AlzheimerÊ¼s disease: a relevant issue. European Journal of Anaesthesiology, 2009, 26, 805-806.	1.7	20
56	Inhaled anesthesia and cognitive performance. Drugs of Today, 2009, 45, 47.	1.1	29
57	Clinically Relevant Concentration Determination of Inhaled Anesthetics (Halothane, Isoflurane,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	17
58	AÎ² 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
59	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
60	Alzheimerâ€™s Disease: Halothane Induces AÎ² Peptide to Oligomeric Formâ€”Solution NMR Studies. Neurochemical Research, 2006, 31, 883-890.	3.3	29
61	Interaction between AÎ² Peptide and Î± Synuclein: Molecular Mechanisms in Overlapping Pathology of Alzheimerâ€™s and Parkinsonâ€™s in Dementia with Lewy Body Disease. Neurochemical Research, 2006, 31, 1153-1162.	3.3	193
62	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
63	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
64	Interactions of A?(1?40) with Glycerophosphocholine and Intact Erythrocyte Membranes: Fluorescence and Circular Dichroism Studies. Neurochemical Research, 2004, 29, 2273-2279.	3.3	8
65	A comprehensive discussion of HSQC and HMQC pulse sequences. Concepts in Magnetic Resonance, 2004, 20A, 1-23.	1.3	71
66	NMR Structure and Backbone Dynamics of the Extended Second Transmembrane Domain of the Human Neuronal Glycine Receptor Î±1 Subunit. Biochemistry, 2003, 42, 3989-3995.	2.5	27
67	Effects of Volatile Anesthetic on Channel Structure of Gramicidin A. Biophysical Journal, 2002, 83, 1413-1420.	0.5	19
68	NMR Structures of the Second Transmembrane Domain of the Human Glycine Receptor Î±1 Subunit: Model of Pore Architecture and Channel Gating. Biophysical Journal, 2002, 83, 252-262.	0.5	48
69	Cross-Correlation Effects Involving Curie Spin Relaxation in Methyl Groups. Journal of Magnetic Resonance, 2002, 155, 29-38.	2.1	12
70	Complete NMR Spectroscopic Assignment of a Neuronal Transduction Protein. Monatshefte FÃ¼r Chemie, 2002, 133, 205-217.	1.8	3
71	Geometry dependent two-dimensional heteronuclear multiplet effects in paramagnetic proteins. Journal of Biomolecular NMR, 2001, 20, 31-37.	2.8	24
72	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

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73	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
74	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
75	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