

# jagannatha Rao kosagisharaf

## List of Publications by Citations

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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.

59  
papers

2,298  
citations

27  
h-index

47  
g-index

60  
ext. papers

2,535  
ext. citations

4  
avg, IF

4.66  
L-index

#	Paper	IF	Citations
59	Aluminium in Alzheimer's disease: are we still at a crossroad?. <i>Cellular and Molecular Life Sciences</i> , <b>2005</b> , 62, 143-58	10.3	231
58	Understanding nutrition, depression and mental illnesses. <i>Indian Journal of Psychiatry</i> , <b>2008</b> , 50, 77-82	2.2	176
57	Challenges associated with metal chelation therapy in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , <b>2009</b> , 17, 457-68	4.3	119
56	Serum trace element levels and the complexity of inter-element relations in patients with Parkinson's disease. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2004</b> , 18, 163-71	4.1	93
55	Copper- and iron-induced differential fibril formation in alpha-synuclein: TEM study. <i>Neuroscience Letters</i> , <b>2007</b> , 424, 78-82	3.3	81
54	Polyphenols as therapeutic molecules in Alzheimer's disease through modulating amyloid pathways. <i>Molecular Neurobiology</i> , <b>2015</b> , 51, 466-79	6.2	77
53	Increased expression of the gamma-secretase components presenilin-1 and nicastrin in activated astrocytes and microglia following traumatic brain injury. <i>Glia</i> , <b>2008</b> , 56, 552-67	9	77
52	Neuronutrition and Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , <b>2010</b> , 19, 1123-39	4.3	76
51	Recent advances in Synuclein functions, advanced glycation, and toxicity: implications for Parkinson's disease. <i>Molecular Neurobiology</i> , <b>2013</b> , 47, 525-36	6.2	69
50	Beta-secretase: structure, function, and evolution. <i>CNS and Neurological Disorders - Drug Targets</i> , <b>2008</b> , 7, 278-94	2.6	69
49	A new insight on Al-maltolate-treated aged rabbit as Alzheimer's animal model. <i>Brain Research Reviews</i> , <b>2006</b> , 52, 275-92		63
48	DNA induces folding in alpha-synuclein: understanding the mechanism using chaperone property of osmolytes. <i>Archives of Biochemistry and Biophysics</i> , <b>2007</b> , 464, 57-69	4.1	59
47	Modulations in antioxidant enzymes in different tissues of marine bivalve <i>Perna viridis</i> during heavy metal exposure. <i>Molecular and Cellular Biochemistry</i> , <b>1995</b> , 146, 107-13	4.2	58
46	Thermodynamics imprinting reveals differential binding of metals to alpha-synuclein: relevance to Parkinson's disease. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 359, 115-20	3.4	57
45	Quantification of trace elements in normal human brain by inductively coupled plasma atomic emission spectrometry. <i>Journal of the Neurological Sciences</i> , <b>1997</b> , 146, 153-66	3.2	56
44	First evidence for helical transitions in supercoiled DNA by amyloid Beta Peptide (1-42) and aluminum: a new insight in understanding Alzheimer's disease. <i>Journal of Molecular Neuroscience</i> , <b>2004</b> , 22, 19-31	3.3	56
43	Specific Inhibition of NEIL-initiated repair of oxidized base damage in human genome by copper and iron: potential etiological linkage to neurodegenerative diseases. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 28812-25	5.4	51

42	Free radical-induced chitosan depolymerized products protect calf thymus DNA from oxidative damage. <i>Carbohydrate Research</i> , <b>2007</b> , 342, 190-5	2.9	51
41	Studies on genomic DNA topology and stability in brain regions of Parkinson's disease. <i>Archives of Biochemistry and Biophysics</i> , <b>2006</b> , 449, 143-56	4.1	47
40	Anti-amyloidogenic activity of S-allyl-L-cysteine and its activity to destabilize Alzheimer's beta-amyloid fibrils in vitro. <i>Neuroscience Letters</i> , <b>2007</b> , 429, 75-80	3.3	46
39	Differential accumulation of secreted AbetaPP metabolites in ocular fluids. <i>Journal of Alzheimer's Disease</i> , <b>2010</b> , 20, 1243-53	4.3	42
38	First evidence to show the topological change of DNA from B-DNA to Z-DNA conformation in the hippocampus of Alzheimer's brain. <i>NeuroMolecular Medicine</i> , <b>2002</b> , 2, 289-97	4.6	39
37	DNA induced folding/fibrillation of alpha-synuclein: new insights in Parkinson's disease. <i>Frontiers in Bioscience - Landmark</i> , <b>2010</b> , 15, 418-36	2.8	36
36	Challenges and complexities of alpha-synuclein toxicity: new postulates in unfolding the mystery associated with Parkinson's disease. <i>Archives of Biochemistry and Biophysics</i> , <b>2003</b> , 418, 169-78	4.1	33
35	Screening of Caesalpinia bonduc leaves for antipsoriatic activity. <i>Journal of Ethnopharmacology</i> , <b>2011</b> , 133, 897-901	5	28
34	Anti-amyloidogenic property of leaf aqueous extract of Caesalpinia crista. <i>Neuroscience Letters</i> , <b>2010</b> , 475, 110-4	3.3	28
33	Assessment of serum macro and trace element homeostasis and the complexity of inter-element relations in bipolar mood disorders. <i>Clinica Chimica Acta</i> , <b>2008</b> , 394, 47-53	6.2	28
32	Anti-amyloid aggregation activity of novel carotenoids: implications for Alzheimer's drug discovery. <i>Clinical Interventions in Aging</i> , <b>2017</b> , 12, 815-822	4	26
31	New perspectives on oxidized genome damage and repair inhibition by pro-oxidant metals in neurological diseases. <i>Biomolecules</i> , <b>2014</b> , 4, 678-703	5.9	25
30	Role of DNA dynamics in Alzheimer's disease. <i>Brain Research Reviews</i> , <b>2008</b> , 58, 136-48		24
29	Potential immunotargets for Alzheimer's disease treatment strategies. <i>Journal of Alzheimer's Disease</i> , <b>2013</b> , 33, 297-312	4.3	23
28	Molecular understanding of copper and iron interaction with alpha-synuclein by fluorescence analysis. <i>Journal of Molecular Neuroscience</i> , <b>2008</b> , 35, 273-81	3.3	23
27	A new evidence for DNA nicking property of amyloid beta-peptide (1-42): relevance to Alzheimer's disease. <i>Archives of Biochemistry and Biophysics</i> , <b>2007</b> , 463, 245-52	4.1	23
26	New evidences on Tau-DNA interactions and relevance to neurodegeneration. <i>Neurochemistry International</i> , <b>2010</b> , 57, 51-7	4.4	22
25	Study on the levels of trace elements in mild and severe psoriasis. <i>Clinica Chimica Acta</i> , <b>2009</b> , 405, 66-70	6.2	22

24	Inhibition of monoamine oxidase-A of rat brain by pyrethroids--an in vitro kinetic study. <i>Molecular and Cellular Biochemistry</i> , <b>1993</b> , 124, 107-14	4.2	20
23	In vitro evidence that an aqueous extract of <i>Centella asiatica</i> modulates $\beta$ synuclein aggregation dynamics. <i>Journal of Alzheimer's Disease</i> , <b>2014</b> , 39, 457-65	4.3	19
22	Studies on serum 8-hydroxy guanosine (8-OHdG) as reliable biomarker for psoriasis. <i>Journal of the European Academy of Dermatology and Venereology</i> , <b>2013</b> , 27, 655-7	4.6	19
21	Role of protein conformational dynamics and DNA integrity in relevance to neuronal cell death in neurodegeneration. <i>Current Alzheimer Research</i> , <b>2006</b> , 3, 297-309	3	17
20	Geriatric mental health: Recent trends in molecular neuroscience. <i>Indian Journal of Psychiatry</i> , <b>2010</b> , 52, 3-5	2.2	16
19	Aluminium leaching from utensils--a kinetic study. <i>International Journal of Food Sciences and Nutrition</i> , <b>1995</b> , 46, 31-8	3.7	16
18	Role of metals in neuronal apoptosis: challenges associated with neurodegeneration. <i>Current Alzheimer Research</i> , <b>2006</b> , 3, 311-26	3	15
17	The effects of impaired cerebral circulation on Alzheimer's disease pathology: evidence from animal studies. <i>Journal of Alzheimer's Disease</i> , <b>2014</b> , 42, 707-22	4.3	14
16	Effect of aluminium (Al) on brain mitochondrial monoamine oxidase-A (MAO-A) activity--an in vitro kinetic study. <i>Molecular and Cellular Biochemistry</i> , <b>1994</b> , 137, 57-60	4.2	13
15	$\beta$ Synuclein Misfolding Versus Aggregation Relevance to Parkinson's Disease: Critical Assessment and Modeling. <i>Molecular Neurobiology</i> , <b>2015</b> , 51, 1417-31	6.2	12
14	Studies on the role of amino acid stereospecificity in amyloid beta aggregation. <i>Journal of Molecular Neuroscience</i> , <b>2008</b> , 34, 35-43	3.3	12
13	Interaction of Co, Mn, Mg and Al with d(GCCCATGGC) and d(CCGGGCCCCGG): a spectroscopic study. <i>Cellular and Molecular Life Sciences</i> , <b>1998</b> , 54, 488-496	10.3	11
12	Consanguinity: Still a challenge. <i>Indian Journal of Psychiatry</i> , <b>2009</b> , 51, 3-5	2.2	11
11	Mathematical approach to understand the kinetics of alpha-synuclein aggregation: relevance to Parkinson's disease. <i>Computers in Biology and Medicine</i> , <b>2008</b> , 38, 1084-93	7	10
10	Evidence for a hydroxy-aluminium polymer (Al <sub>13</sub> ) in synaptosomes. <i>FEBS Letters</i> , <b>1992</b> , 311, 49-50	3.8	10
9	A $\beta$ (42) induced MRI changes in aged rabbit brain resembles AD brain. <i>Neurochemistry International</i> , <b>2011</b> , 59, 637-42	4.4	9
8	The biochemistry of belief. <i>Indian Journal of Psychiatry</i> , <b>2009</b> , 51, 239-41	2.2	6
7	<sup>27</sup> Al-NMR studies of aluminum transport across yeast cell membranes. <i>Molecular and Cellular Biochemistry</i> , <b>1997</b> , 175, 59-63	4.2	5

6	Relationship between consanguinity and depression in a south Indian population. <i>Indian Journal of Psychiatry</i> , <b>2009</b> , 51, 50-2	2.2	5
5	Modulation of K <sup>+</sup> transport across synaptosomes of rat brain by synthetic pyrethroids. <i>Journal of the Neurological Sciences</i> , <b>1997</b> , 147, 127-33	3.2	4
4	An algorithmic approach to understand trace elemental homeostasis in serum samples of Parkinson disease. <i>Computers in Biology and Medicine</i> , <b>2005</b> , 35, 475-93	7	4
3	The characterization of aluminium--alanine complex. <i>Molecular and Cellular Biochemistry</i> , <b>1994</b> , 137, 61-4.	4.2	3
2	Drooping genes v/s dancing genes. <i>Indian Journal of Psychiatry</i> , <b>2009</b> , 51, 167-8	2.2	2
1	New drug discovery for Alzheimer's disease: Challenges and hopes. <i>Indian Journal of Psychiatry</i> , <b>2009</b> , 51, 79-81	2.2	1