

Ashutosh Tiwari

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,239
citations

159585

30
h-index

289244

40
g-index

41
all docs

41
docs citations

41
times ranked

4361
citing authors

#	ARTICLE	IF	CITATIONS
1	Axonal Transport Defects in Neurodegenerative Diseases. <i>Journal of Neuroscience</i> , 2009, 29, 12776-12786.	3.6	398
2	Decreased Metallation and Activity in Subsets of Mutant Superoxide Dismutases Associated with Familial Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2002, 277, 15923-15931.	3.4	324
3	Familial Amyotrophic Lateral Sclerosis-associated Mutations Decrease the Thermal Stability of Distinctly Metallated Species of Human Copper/Zinc Superoxide Dismutase. <i>Journal of Biological Chemistry</i> , 2002, 277, 15932-15937.	3.4	206
4	Familial Amyotrophic Lateral Sclerosis Mutants of Copper/Zinc Superoxide Dismutase Are Susceptible to Disulfide Reduction. <i>Journal of Biological Chemistry</i> , 2003, 278, 5984-5992.	3.4	193
5	Structural Basis of Heteromeric Smad Protein Assembly in TGF- β 2 Signaling. <i>Molecular Cell</i> , 2004, 15, 813-823.	9.7	169
6	Destabilization of apoprotein is insufficient to explain Cu,Zn-superoxide dismutase-linked ALS pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10516-10521.	7.1	148
7	pH-activatable near-infrared fluorescent probes for detection of lysosomal pH inside living cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4500-4508.	5.8	111
8	Inhibition of Fast Axonal Transport by Pathogenic SOD1 Involves Activation of p38 MAP Kinase. <i>PLoS ONE</i> , 2013, 8, e65235.	2.5	100
9	Disulfide-Bond Scrambling Promotes Amorphous Aggregates in Lysozyme and Bovine Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3969-3981.	2.6	95
10	Near-infrared fluorescent probes based on piperazine-functionalized BODIPY dyes for sensitive detection of lysosomal pH. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2173-2184.	5.8	92
11	Aberrantly Increased Hydrophobicity Shared by Mutants of Cu,Zn-Superoxide Dismutase in Familial Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2005, 280, 29771-29779.	3.4	89
12	Structures of the G85R Variant of SOD1 in Familial Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 16169-16177.	3.4	85
13	Sensitive and Specific Identification of Wild Type and Variant Proteins from 8 to 669 kDa Using Top-down Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 846-856.	3.8	83
14	A novel near-infrared fluorescent probe for sensitive detection of β -galactosidase in living cells. <i>Analytica Chimica Acta</i> , 2017, 968, 97-104.	5.4	83
15	Stabilization of yeast hexokinase A by polyol osmolytes: Correlation with the physicochemical properties of aqueous solutions. <i>Biophysical Chemistry</i> , 2006, 124, 90-99.	2.8	82
16	Unusual Fluorescent Responses of Morpholine-Functionalized Fluorescent Probes to pH via Manipulation of BODIPY's HOMO and LUMO Energy Orbitals for Intracellular pH Detection. <i>ACS Sensors</i> , 2016, 1, 158-165.	7.8	82
17	Detergent-insoluble Aggregates Associated with Amyotrophic Lateral Sclerosis in Transgenic Mice Contain Primarily Full-length, Unmodified Superoxide Dismutase-1. <i>Journal of Biological Chemistry</i> , 2008, 283, 8340-8350.	3.4	79
18	Highly water-soluble BODIPY-based fluorescent probes for sensitive fluorescent sensing of zinc(ii). <i>Journal of Materials Chemistry B</i> , 2013, 1, 1722.	5.8	79

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19	BODIPY-Based Fluorescent Probes for Sensing Protein Surface-Hydrophobicity. <i>Scientific Reports</i> , 2015, 5, 18337.	3.3	73
20	Metal Deficiency Increases Aberrant Hydrophobicity of Mutant Superoxide Dismutases That Cause Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 27746-27758.	3.4	60
21	A Common Property of Amyotrophic Lateral Sclerosis-associated Variants. <i>Journal of Biological Chemistry</i> , 2009, 284, 30965-30973.	3.4	59
22	Near-Infrared Fluorescent Probes with Large Stokes Shifts for Sensing Zn(II) Ions in Living Cells. <i>ACS Sensors</i> , 2016, 1, 1408-1415.	7.8	56
23	Fluorescent probes for sensitive and selective detection of pH changes in live cells in visible and near-infrared channels. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9579-9590.	5.8	55
24	Controlled Knoevenagel reactions of methyl groups of 1,3,5,7-tetramethyl BODIPY dyes for unique BODIPY dyes. <i>RSC Advances</i> , 2012, 2, 404-407.	3.6	52
25	Increased affinity for copper mediated by cysteine 111 in forms of mutant superoxide dismutase 1 linked to amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2007, 42, 1534-1542.	2.9	47
26	Mutant SOD1 Instability: Implications for Toxicity in Amyotrophic Lateral Sclerosis. <i>Neurodegenerative Diseases</i> , 2005, 2, 115-127.	1.4	46
27	Inhibition of Chaperone Activity Is a Shared Property of Several Cu,Zn-Superoxide Dismutase Mutants That Cause Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2005, 280, 17725-17731.	3.4	45
28	Highly water-soluble, near-infrared emissive BODIPY polymeric dye bearing RGD peptide residues for cancer imaging. <i>Analytica Chimica Acta</i> , 2013, 758, 138-144.	5.4	40
29	Highly water-soluble neutral near-infrared emissive BODIPY polymeric dyes. <i>Journal of Materials Chemistry</i> , 2012, 22, 2781-2790.	6.7	37
30	New Near-Infrared Fluorescent Probes with Single-Photon Anti-Stokes-Shift Fluorescence for Sensitive Determination of pH Variances in Lysosomes with a Double-Checked Capability. <i>ACS Applied Bio Materials</i> , 2018, 1, 549-560.	4.6	35
31	Effect of pH on the Stability and Structure of Yeast Hexokinase A. <i>Journal of Biological Chemistry</i> , 2004, 279, 32093-32099.	3.4	32
32	Facile electrochemical synthesis of antimicrobial TiO ₂ nanotube arrays. <i>International Journal of Nanomedicine</i> , 2014, 9, 5177.	6.7	18
33	Acetylation of A β 242 at Lysine 16 Disrupts Amyloid Formation. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1178-1191.	3.5	18
34	Effect of pH on Stability of Anthrax Lethal Factor: Correlation between Denaturation and Activity. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 568-573.	2.1	13
35	Preformed Seeds Modulate Native Insulin Aggregation Kinetics. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15089-15099.	2.6	13
36	Fluorescent probes with high pK _a values based on traditional, near-infrared rhodamine, and hemicyanine fluorophores for sensitive detection of lysosomal pH variations. <i>Methods</i> , 2019, 168, 40-50.	3.8	13

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37	Peptideâ€Directed Selfâ€Assembly of Functionalized Polymeric Nanoparticles Part I: Design and Selfâ€Assembly of Peptideâ€Copolymer Conjugates into Nanoparticle Fibers and 3D Scaffolds. <i>Macromolecular Bioscience</i> , 2014, 14, 853-871.	4.1	11
38	Tuning thermoresponsive behavior of diblock copolymers and their gold core hybrids. <i>Journal of Colloid and Interface Science</i> , 2013, 391, 60-69.	9.4	9
39	Screening Preeclamptic Cord Plasma for Proteins Associated with Decreased Breast Cancer Susceptibility. <i>Genomics, Proteomics and Bioinformatics</i> , 2013, 11, 335-344.	6.9	7
40	An Efficient and Cost-Effective Procedure for Preparing Samples for Differential Scanning Calorimetry Experiments. <i>Analytical Biochemistry</i> , 2000, 284, 406-408.	2.4	2