Ashutosh Tiwari

List of Publications by Year
in descending order

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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	Acetylation of AÎ²42 at Lysine 16 Disrupts Amyloid Formation. ACS Chemical Neuroscience, 2020, 11, 1178-1191.	3.5	18
2	Fluorescent probes with high pKa values based on traditional, near-infrared rhodamine, and hemicyanine fluorophores for sensitive detection of lysosomal pH variations. Methods, 2019, 168, 40-50.	3.8	13
3	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. ACS Applied Bio Materials, 2018, 1, 549-560.	4.6	35
4	A novel near-infrared fluorescent probe for sensitive detection of Î²-galactosidase in living cells. Analytica Chimica Acta, 2017, 968, 97-104.	5.4	83
5	Fluorescent probes for sensitive and selective detection of pH changes in live cells in visible and near-infrared channels. Journal of Materials Chemistry B, 2017, 5, 9579-9590.	5.8	55
6	Near-Infrared Fluorescent Probes with Large Stokes Shifts for Sensing Zn(II) Ions in Living Cells. ACS Sensors, 2016, 1, 1408-1415.	7.8	56
7	Unusual Fluorescent Responses of Morpholine-Functionalized Fluorescent Probes to pH via Manipulation of BODIPYâ€™s HOMO and LUMO Energy Orbitals for Intracellular pH Detection. ACS Sensors, 2016, 1, 158-165.	7.8	82
8	BODIPY-Based Fluorescent Probes for Sensing Protein Surface-Hydrophobicity. Scientific Reports, 2015, 5, 18337.	3.3	73
9	Disulfide-Bond Scrambling Promotes Amorphous Aggregates in Lysozyme and Bovine Serum Albumin. Journal of Physical Chemistry B, 2015, 119, 3969-3981.	2.6	95
10	Near-infrared fluorescent probes based on piperazine-functionalized BODIPY dyes for sensitive detection of lysosomal pH. Journal of Materials Chemistry B, 2015, 3, 2173-2184.	5.8	92
11	Preformed Seeds Modulate Native Insulin Aggregation Kinetics. Journal of Physical Chemistry B, 2015, 119, 15089-15099.	2.6	13
12	Facile electrochemical synthesis of antimicrobial TiO2 nanotube arrays. International Journal of Nanomedicine, 2014, 9, 5177.	6.7	18
13	Peptideâ€Directed Selfâ€Assembly of Functionalized Polymeric Nanoparticles Part I: Design and Selfâ€Assembly of Peptideâ€“Copolymer Conjugates into Nanoparticle Fibers and 3D Scaffolds. Macromolecular Bioscience, 2014, 14, 853-871.	4.1	11
14	pH-activatable near-infrared fluorescent probes for detection of lysosomal pH inside living cells. Journal of Materials Chemistry B, 2014, 2, 4500-4508.	5.8	111
15	Highly water-soluble, near-infrared emissive BODIPY polymeric dye bearing RGD peptide residues for cancer imaging. Analytica Chimica Acta, 2013, 758, 138-144.	5.4	40
16	Screening Preeclamptic Cord Plasma for Proteins Associated with Decreased Breast Cancer Susceptibility. Genomics, Proteomics and Bioinformatics, 2013, 11, 335-344.	6.9	7
17	Highly water-soluble BODIPY-based fluorescent probes for sensitive fluorescent sensing of zinc(ii). Journal of Materials Chemistry B, 2013, 1, 1722.	5.8	79
18	Tuning thermoresponsive behavior of diblock copolymers and their gold core hybrids. Journal of Colloid and Interface Science, 2013, 391, 60-69.	9.4	9

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19	Inhibition of Fast Axonal Transport by Pathogenic SOD1 Involves Activation of p38 MAP Kinase. PLoS ONE, 2013, 8, e65235.	2.5	100
20	Controlled Knoevenagel reactions of methyl groups of 1,3,5,7-tetramethyl BODIPY dyes for unique BODIPY dyes. RSC Advances, 2012, 2, 404-407.	3.6	52
21	Highly water-soluble neutral near-infrared emissive BODIPY polymeric dyes. Journal of Materials Chemistry, 2012, 22, 2781-2790.	6.7	37
22	Metal Deficiency Increases Aberrant Hydrophobicity of Mutant Superoxide Dismutases That Cause Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2009, 284, 27746-27758.	3.4	60
23	A Common Property of Amyotrophic Lateral Sclerosis-associated Variants. Journal of Biological Chemistry, 2009, 284, 30965-30973.	3.4	59
24	Sensitive and Specific Identification of Wild Type and Variant Proteins from 8 to 669 kDa Using Top-down Mass Spectrometry. Molecular and Cellular Proteomics, 2009, 8, 846-856.	3.8	83
25	Axonal Transport Defects in Neurodegenerative Diseases. Journal of Neuroscience, 2009, 29, 12776-12786.	3.6	398
26	Detergent-insoluble Aggregates Associated with Amyotrophic Lateral Sclerosis in Transgenic Mice Contain Primarily Full-length, Unmodified Superoxide Dismutase-1. Journal of Biological Chemistry, 2008, 283, 8340-8350.	3.4	79
27	Structures of the G85R Variant of SOD1 in Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2008, 283, 16169-16177.	3.4	85
28	Increased affinity for copper mediated by cysteine 111 in forms of mutant superoxide dismutase 1 linked to amyotrophic lateral sclerosis. Free Radical Biology and Medicine, 2007, 42, 1534-1542.	2.9	47
29	Stabilization of yeast hexokinase A by polyol osmolytes: Correlation with the physicochemical properties of aqueous solutions. Biophysical Chemistry, 2006, 124, 90-99.	2.8	82
30	Aberrantly Increased Hydrophobicity Shared by Mutants of Cu,Zn-Superoxide Dismutase in Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2005, 280, 29771-29779.	3.4	89
31	Destabilization of apoprotein is insufficient to explain Cu,Zn-superoxide dismutase-linked ALS pathogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10516-10521.	7.1	148
32	Mutant SOD1 Instability: Implications for Toxicity in Amyotrophic Lateral Sclerosis. Neurodegenerative Diseases, 2005, 2, 115-127.	1.4	46
33	Inhibition of Chaperone Activity Is a Shared Property of Several Cu,Zn-Superoxide Dismutase Mutants That Cause Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2005, 280, 17725-17731.	3.4	45
34	Effect of pH on the Stability and Structure of Yeast Hexokinase A. Journal of Biological Chemistry, 2004, 279, 32093-32099.	3.4	32
35	Structural Basis of Heteromeric Smad Protein Assembly in TGF-Î² Signaling. Molecular Cell, 2004, 15, 813-823.	9.7	169
36	Familial Amyotrophic Lateral Sclerosis Mutants of Copper/Zinc Superoxide Dismutase Are Susceptible to Disulfide Reduction. Journal of Biological Chemistry, 2003, 278, 5984-5992.	3.4	193

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37	Familial Amyotrophic Lateral Sclerosis-associated Mutations Decrease the Thermal Stability of Distinctly Metallated Species of Human Copper/Zinc Superoxide Dismutase. Journal of Biological Chemistry, 2002, 277, 15932-15937.	3.4	206
38	Decreased Metallation and Activity in Subsets of Mutant Superoxide Dismutases Associated with Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2002, 277, 15923-15931.	3.4	324
39	Effect of pH on Stability of Anthrax Lethal Factor: Correlation between Denaturation and Activity. Biochemical and Biophysical Research Communications, 2001, 284, 568-573.	2.1	13
40	An Efficient and Cost-Effective Procedure for Preparing Samples for Differential Scanning Calorimetry Experiments. Analytical Biochemistry, 2000, 284, 406-408.	2.4	2