Sunil S Adav

List of Publications by Year
in descending order

91	5,294	76196	88477
papers	citations	40 h-index	70 g-index

92	92	92	5424
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aerobic granular sludge: Recent advances. Biotechnology Advances, 2008, 26, 411-423.	6.0	726
2	Extraction of extracellular polymeric substances from aerobic granule with compact interior structure. Journal of Hazardous Materials, 2008, 154, 1120-1126.	6.5	364
3	Extracellular polymeric substances and structural stability of aerobic granule. Water Research, 2008, 42, 1644-1650.	5.3	359
4	Degradation of phenol by aerobic granules and isolated yeastCandida tropicalis. Biotechnology and Bioengineering, 2007, 96, 844-852.	1.7	144
5	Selective labelling and eradication of antibiotic-tolerant bacterial populations in Pseudomonas aeruginosa biofilms. Nature Communications, 2016, 7, 10750.	5.8	137
6	Quantitative Secretomic Analysis of Trichoderma reesei Strains Reveals Enzymatic Composition for Lignocellulosic Biomass Degradation. Molecular and Cellular Proteomics, 2012, 11, M111.012419-1-M111.012419-15.	2.5	126
7	Quantitative profiling brain proteomes revealed mitochondrial dysfunction in Alzheimerâ€™s disease. Molecular Brain, 2019, 12, 8.	1.3	117
8	Effects of aeration intensity on formation of phenol-fed aerobic granules and extracellular polymeric substances. Applied Microbiology and Biotechnology, 2007, 77, 175-182.	1.7	106
9	Quantitative iTRAQ Secretome Analysis of Aspergillus niger Reveals Novel Hydrolytic Enzymes. Journal of Proteome Research, 2010, 9, 3932-3940.	1.8	104
10	Stable aerobic granules for continuous-flow reactors: Precipitating calcium and iron salts in granular interiors. Bioresource Technology, 2010, 101, 8051-8057.	4.8	102
11	Degradation of phenol by Acinetobacter strain isolated from aerobic granules. Chemosphere, 2007, 67, 1566-1572.	4.2	101
12	Potential cause of aerobic granular sludge breakdown at high organic loading rates. Applied Microbiology and Biotechnology, 2010, 85, 1601-1610.	1.7	97
13	Decolorization and biodegradation of azo dye, reactive blue 59 by aerobic granules. Bioresource Technology, 2012, 104, 818-822.	4.8	94
14	Biodegradation of pyridine using aerobic granules in the presence of phenol. Water Research, 2007, 41, 2903-2910.	5.3	84
15	Novel Application of Electrostatic Repulsion-Hydrophilic Interaction Chromatography (ERLIC) in Shotgun Proteomics: Comprehensive Profiling of Rat Kidney Proteome. Journal of Proteome Research, 2010, 9, 3520-3526.	1.8	84
16	Microbial community of acetate utilizing denitrifiers in aerobic granules. Applied Microbiology and Biotechnology, 2010, 85, 753-762.	1.7	79
17	Power overshoot in two-chambered microbial fuel cell (MFC). Bioresource Technology, 2011, 102, 4742-4746.	4.8	79
18	Stereological assessment of extracellular polymeric substances, exo-enzymes, and specific bacterial strains in bioaggregates using fluorescence experiments. Biotechnology Advances, 2010, 28, 255-280.	6.0	77

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19	Proteolytic activity in stored aerobic granular sludge and structural integrity. Bioresource Technology, 2009, 100, 68-73.	4.8	76
20	Quantitative iTRAQ Secretome Analysis of Cellulolytic Thermobifida fusca. Journal of Proteome Research, 2010, 9, 3016-3024.	1.8	73
21	iTRAQ-based quantitative secretome analysis of Phanerochaete chrysosporium. Journal of Proteomics, 2011, 75, 642-654.	1.2	73
22	Quantitative proteomic analysis of lignocellulolytic enzymes by Phanerochaete chrysosporium on different lignocellulosic biomass. Journal of Proteomics, 2012, 75, 1493-1504.	1.2	73
23	Aerobic granulation in sequencing batch reactors at different settling times. Bioresource Technology, 2009, 100, 5359-5361.	4.8	71
24	Proteomic Analysis of pH and Strains Dependent Protein Secretion of Trichoderma reesei. Journal of Proteome Research, 2011, 10, 4579-4596.	1.8	68
25	Enhanced biological denitrification of high concentration of nitrite with supplementary carbon source. Applied Microbiology and Biotechnology, 2010, 85, 773-778.	1.7	67
26	Gender differences in white matter pathology and mitochondrial dysfunction in Alzheimerâ€™s disease with cerebrovascular disease. Molecular Brain, 2016, 9, 27.	1.3	58
27	Recent advances in mass spectrometric analysis of protein deamidation. Mass Spectrometry Reviews, 2017, 36, 677-692.	2.8	56
28	Thrombin and Plasmin Alter the Proteome of Neutrophil Extracellular Traps. Frontiers in Immunology, 2018, 9, 1554.	2.2	55
29	Quantitative proteomic study of Aspergillus Fumigatus secretome revealed deamidation of secretory enzymes. Journal of Proteomics, 2015, 119, 154-168.	1.2	53
30	Insight of brain degenerative protein modifications in the pathology of neurodegeneration and dementia by proteomic profiling. Molecular Brain, 2016, 9, 92.	1.3	53
31	Functional consortium from aerobic granules under high organic loading rates. Bioresource Technology, 2009, 100, 3465-3470.	4.8	52
32	Studies on the Proteome of Human Hair - Identification of Histones and Deamidated Keratins. Scientific Reports, 2018, 8, 1599.	1.6	52
33	Azoarcus taiwanensis sp. nov., a denitrifying species isolated from a hot spring. Applied Microbiology and Biotechnology, 2014, 98, 1301-1307.	1.7	51
34	Biological nitrificationâ€“denitrification with alternating oxic and anoxic operations using aerobic granules. Applied Microbiology and Biotechnology, 2009, 84, 1181-1189.	1.7	50
35	Treating chemical industries influent using aerobic granular sludge: Recent development. Journal of the Taiwan Institute of Chemical Engineers, 2009, 40, 333-336.	2.7	48
36	Single-culture aerobic granules with Acinetobacter calcoaceticus. Applied Microbiology and Biotechnology, 2008, 78, 551-557.	1.7	47

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37	Characteristics of rapidly formed hydrogenâ€producing granules and biofilms. Biotechnology and Bioengineering, 2008, 101, 926-936.	1.7	47
38	Biological hydrogen production from phenol-containing wastewater using Clostridium butyricum. International Journal of Hydrogen Energy, 2010, 35, 13345-13349.	3.8	47
39	Functional consortium for hydrogen production from cellobiose: Concentration-to-extinction approach. Bioresource Technology, 2009, 100, 2546-2550.	4.8	46
40	Metabolic Adaptation to a Disruption in Oxygen Supply during Myocardial Ischemia and Reperfusion Is Underpinned by Temporal and Quantitative Changes in the Cardiac Proteome. Journal of Proteome Research, 2012, 11, 2331-2346.	1.8	46
41	Enhanced Separation and Characterization of Deamidated Peptides with RP-ERLIC-Based Multidimensional Chromatography Coupled with Tandem Mass Spectrometry. Journal of Proteome Research, 2012, 11, 1804-1811.	1.8	42
42	Activity and Structure of Stored Aerobic Granules. Environmental Technology (United Kingdom), 2007, 28, 1227-1235.	1.2	40
43	Physiological characterization and interactions of isolates in phenol-degrading aerobic granules. Applied Microbiology and Biotechnology, 2008, 78, 899-905.	1.7	40
44	The biofilm matrix scaffold of Pseudomonas aeruginosa contains G-quadruplex extracellular DNA structures. Npj Biofilms and Microbiomes, 2021, 7, 27.	2.9	40
45	Intergeneric coaggregation of strains isolated from phenol-degrading aerobic granules. Applied Microbiology and Biotechnology, 2008, 79, 657-661.	1.7	39
46	Metabolomics Signatures of Aging: Recent Advances. , 2021, 12, 646.		39
47	Profiling of the Chromatin-associated Proteome Identifies HP1BP3 as a Novel Regulator of Cell Cycle Progression. Molecular and Cellular Proteomics, 2014, 13, 2183-2197.	2.5	36
48	Characterization of extracellular polymeric substances (EPS) from phenol degrading aerobic granules. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 645-651.	2.7	32
49	Label free quantitative proteomic analysis of secretome by Thermobifida fusca on different lignocellulosic biomass. Journal of Proteomics, 2012, 75, 3694-3706.	1.2	31
50	iTRAQ Quantitative Clinical Proteomics Revealed Role of Na⁺K⁺-ATPase and Its Correlation with Deamidation in Vascular Dementia. Journal of Proteome Research, 2014, 13, 4635-4646.	1.8	31
51	Abundant neuroprotective chaperone Lipocalin-type prostaglandin D synthase (L-PGDS) disassembles the Amyloid-Î² fibrils. Scientific Reports, 2019, 9, 12579.	1.6	31
52	iTRAQ-based quantitative proteomic analysis of Thermobifida fusca reveals metabolic pathways of cellulose utilization. Journal of Proteomics, 2011, 74, 2112-2122.	1.2	30
53	Proteomic Analysis of Temperature Dependent Extracellular Proteins fromAspergillus fumigatusGrown under Solid-State Culture Condition. Journal of Proteome Research, 2013, 12, 2715-2731.	1.8	30
54	Dementia-linked amyloidosis is associated with brain protein deamidation as revealed by proteomic profiling of human brain tissues. Molecular Brain, 2016, 9, 20.	1.3	30

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55	Proteomic Analysis of Aqueous Humor from Primary Open Angle Glaucoma Patients on Drug Treatment Revealed Altered Complement Activation Cascade. Journal of Proteome Research, 2018, 17, 2499-2510.	1.8	29
56	Hypoxia-Induced Degenerative Protein Modifications Associated with Aging and Age-Associated Disorders. , 2020, 11, 341.		28
57	Resident macrophages restrain pathological adipose tissue remodeling and protect vascular integrity in obese mice. EMBO Reports, 2021, 22, e52835.	2.0	28
58	Hydrogen Fermentation and Methane Production from Sludge with Pretreatments. Energy & Fuels, 2008, 22, 98-102.	2.5	27
59	Enhancing denitrifying sulfide removal with functional strains under micro-aerobic condition. Process Biochemistry, 2010, 45, 1007-1010.	1.8	27
60	Influence of Internal Biofilm Growth on Residual Permeability Loss in Aerobic Granular Membrane Bioreactors. Environmental Science & Technology, 2010, 44, 1267-1273.	4.6	27
61	Protein abundance in multiplexed samples (PAMUS) for quantitation of Trichoderma reesei secretome. Journal of Proteomics, 2013, 83, 180-196.	1.2	27
62	Aqueous humor protein dysregulation in primary angle-closure glaucoma. International Ophthalmology, 2019, 39, 861-871.	0.6	27
63	Serum albumin cysteine trioxidation is a potential oxidative stress biomarker of type 2 diabetes mellitus. Scientific Reports, 2020, 10, 6475.	1.6	26
64	Quantitative proteomic analysis of secretome of microbial consortium during saw dust utilization. Journal of Proteomics, 2012, 75, 5590-5603.	1.2	23
65	Characterization of extracellular lignocellulolytic enzymes of Coniochaeta sp. during corn stover bioconversion. Process Biochemistry, 2012, 47, 2440-2448.	1.8	22
66	Effect of heat pre-treatment temperature on isolation of hydrogen producing functional consortium from soil. Renewable Energy, 2010, 35, 2649-2655.	4.3	20
67	Integrated Transcriptomics, Metabolomics, and Lipidomics Profiling in Rat Lung, Blood, and Serum for Assessment of Laser Printer-Emitted Nanoparticle Inhalation Exposure-Induced Disease Risks. International Journal of Molecular Sciences, 2019, 20, 6348.	1.8	20
68	Hydraulic characteristics of aerobic granules using size exclusion chromatography. Biotechnology and Bioengineering, 2008, 99, 791-799.	1.7	19
69	Proteolytic signatures define unique thrombin-derived peptides present in human wound fluid in vivo. Scientific Reports, 2017, 7, 13136.	1.6	18
70	Elucidating the temporal dynamics of chromatin-associated protein release upon DNA digestion by quantitative proteomic approach. Journal of Proteomics, 2012, 75, 5493-5506.	1.2	16
71	Alishewanella solinquinati sp. nov., Isolated from Soil Contaminated with Textile Dyes. Current Microbiology, 2013, 67, 454-459.	1.0	16
72	Study of Phanerochaete chrysosporium Secretome Revealed Protein Glycosylation as a Substrate-Dependent Post-Translational Modification. Journal of Proteome Research, 2014, 13, 4272-4280.	1.8	16

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73	Bacteria Display Differential Growth and Adhesion Characteristics on Human Hair Shafts. Frontiers in Microbiology, 2018, 9, 2145.	1.5	16
74	Aerobic granules with inhibitory strains and role of extracellular polymeric substances. Journal of Hazardous Materials, 2010, 174, 424-428.	6.5	15
75	Trichoderma Secretome. , 2014, , 103-114.		15
76	Improving Blood Plasma Glycoproteome Coverage by Coupling Ultracentrifugation Fractionation to Electrostatic Repulsionâ€“Hydrophilic Interaction Chromatography Enrichment. Journal of Proteome Research, 2015, 14, 2828-2838.	1.8	13
77	Biodiversity in aerobic granule membrane bioreactor at high organic loading rates. Applied Microbiology and Biotechnology, 2009, 85, 383-388.	1.7	12
78	Effects of aflatoxin B1 on liver microsomal enzymes in different strains of chickens. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1997, 118, 185-189.	0.5	8
79	Fungal Secretome for Biorefinery: Recent Advances in Proteomic Technology. Mass Spectrometry Letters, 2013, 4, 1-9.	0.5	8
80	Harvesting biohydrogen from toxic wastewater using isolated strain. International Journal of Hydrogen Energy, 2011, 36, 13907-13913.	3.8	7
81	Aerobic granulation of pure bacterial strain Bacillus thuringiensis. Frontiers of Environmental Science and Engineering in China, 2008, 2, 461-467.	0.8	6
82	Strains of internal biofilm in aerobic granular membrane bioreactors. Applied Microbiology and Biotechnology, 2010, 86, 1987-1993.	1.7	6
83	Data for iTRAQ secretomic analysis of Aspergillus fumigatus in response to different carbon sources. Data in Brief, 2015, 3, 175-179.	0.5	6
84	Proteomics study revealed altered proteome of Dichogaster curgensis upon exposure to fly ash. Chemosphere, 2016, 160, 104-113.	4.2	6
85	Identification of Antibacterial Components in Human Hair Shafts. Acta Dermato-Venereologica, 2018, 98, 708-710.	0.6	6
86	Effect of sulfamethazine on phenobarbital and benzo[a]pyrene induced hepatic microsomal mixed function oxidase system in rats. Toxicology Letters, 1996, 87, 25-30.	0.4	5
87	Intrageneric and intergeneric co-aggregation with Acinetobacter calcoaceticus I6. Journal of the Taiwan Institute of Chemical Engineers, 2009, 40, 344-347.	2.7	4
88	Simultaneous Enrichment of Plasma Extracellular Vesicles and Glycoproteome for Studying Disease Biomarkers. Methods in Molecular Biology, 2017, 1619, 193-201.	0.4	3
89	Proteomic Study of Degenerative Protein Modifications in the Molecular Pathology of Neurodegeneration and Dementia. , 0, , .		2
90	Bioremediation of Industrial Effluents by Aerobic Bacterial Granules. Gels Horizons: From Science To Smart Materials, 2021, , 557-580.	0.3	0

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91	Effect of sodium sulfadimethylpyrimidine on multiple forms of cytochrome P450 in chicken. Indian Journal of Pharmacology, 2005, 37, 169.	0.4	0