Jagjit S Yadav

List of Publications by Citations

87	4,275	33	64
papers	citations	h-index	g-index
89	4,876	4.9	5.05
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
87	The Paleozoic origin of enzymatic lignin decomposition reconstructed from 31 fungal genomes. *Science*, **2012**, 336, 1715-9	33.3	1129
86	Genome, transcriptome, and secretome analysis of wood decay fungus Postia placenta supports unique mechanisms of lignocellulose conversion. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 1954-9	11.5	479
85	Comparative genomics of Ceriporiopsis subvermispora and Phanerochaete chrysosporium provide insight into selective ligninolysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 5458-63	11.5	225
84	Comparative Genomics of Early-Diverging Mushroom-Forming Fungi Provides Insights into the Origins of Lignocellulose Decay Capabilities. *Molecular Biology and Evolution*, **2016**, 33, 959-70	8.3	131
83	Degradation of benzene, toluene, ethylbenzene, and xylenes (BTEX) by the lignin-degrading basidiomycete Phanerochaete chrysosporium. *Applied and Environmental Microbiology*, **1993**, 59, 756-62	4.8	131
82	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. *Current Biology*, **2016**, 26, 1577-1584	6.3	119
81	Comparative genomics of the white-rot fungi, Phanerochaete carnosa and P. chrysosporium, to elucidate the genetic basis of the distinct wood types they colonize. *BMC Genomics*, **2012**, 13, 444	4.5	97
80	Degradation of polychlorinated biphenyl mixtures (Aroclors 1242, 1254, and 1260) by the white rot fungus Phanerochaete chrysosporium as evidenced by congener-specific analysis. *Applied and Environmental Microbiology*, **1995**, 61, 2560-5	4.8	96
79	P450 monooxygenases (P450ome) of the model white rot fungus Phanerochaete chrysosporium. *Critical Reviews in Microbiology*, **2012**, 38, 339-63	7.8	87
78	Genome-to-function characterization of novel fungal P450 monooxygenases oxidizing polycyclic aromatic hydrocarbons (PAHs). *Biochemical and Biophysical Research Communications*, **2010**, 399, 492-7	3.4	79
77	Genome-wide structural and evolutionary analysis of the P450 monooxygenase genes (P450ome) in the white rot fungus Phanerochaete chrysosporium: evidence for gene duplications and extensive gene clustering. *BMC Genomics*, **2005**, 6, 92	4.5	79
76	CYP63A2, a catalytically versatile fungal P450 monooxygenase capable of oxidizing higher-molecular-weight polycyclic aromatic hydrocarbons, alkylphenols, and alkanes. *Applied and Environmental Microbiology*, **2013**, 79, 2692-702	4.8	74
75	Analysis of the Phlebiopsis gigantea genome, transcriptome and secretome provides insight into its pioneer colonization strategies of wood. *PLoS Genetics*, **2014**, 10, e1004759	6	67
74	Development of a single-tube, cell lysis-based, genus-specific PCR method for rapid identification of mycobacteria: optimization of cell lysis, PCR primers and conditions, and restriction pattern analysis. *Journal of Clinical Microbiology*, **2004**, 42, 453-7	9.7	62
73	P450ome of the white rot fungus Phanerochaete chrysosporium: structure, evolution and regulation of expression of genomic P450 clusters. *Biochemical Society Transactions*, **2006**, 34, 1165-9	5.1	56
72	Effect of electrical charges and fields on injury and viability of airborne bacteria. *Biotechnology and Bioengineering*, **2002**, 79, 229-41	4.9	56
71	Role of P450 monooxygenases in the degradation of the endocrine-disrupting chemical nonylphenol by the white rot fungus Phanerochaete chrysosporium. *Applied and Environmental Microbiology*, **2009**, 75, 5570-80	4.8	53

70	Differential regulation and xenobiotic induction of tandem P450 monooxygenase genes pc-1 (CYP63A1) and pc-2 (CYP63A2) in the white-rot fungus Phanerochaete chrysosporium. *Applied Microbiology and Biotechnology*, **2004**, 65, 559-65	5.7	52
69	Biocidal activity of formaldehyde and nonformaldehyde biocides toward Mycobacterium immunogenum and Pseudomonas fluorescens in pure and mixed suspensions in synthetic metalworking fluid and saline. *Applied and Environmental Microbiology*, **2005**, 71, 542-6	4.8	51
68	Mineralization of 2,4-Dichlorophenoxyacetic Acid (2,4-D) and Mixtures of 2,4-D and 2,4,5-Trichlorophenoxyacetic Acid by Phanerochaete chrysosporium. *Applied and Environmental Microbiology*, **1993**, 59, 2904-8	4.8	47
67	Real-time PCR assays for genus-specific detection and quantification of culturable and non-culturable mycobacteria and pseudomonads in metalworking fluids. *Molecular and Cellular Probes*, **2004**, 18, 67-73	3.3	46
66	Microarray-based global differential expression profiling of P450 monooxygenases and regulatory proteins for signal transduction pathways in the white rot fungus Phanerochaete chrysosporium. *Molecular Genetics and Genomics*, **2005**, 274, 454-66	3.1	41
65	Immunoproteomic identification of secretory and subcellular protein antigens and functional evaluation of the secretome fraction of Mycobacterium immunogenum, a newly recognized species of the Mycobacterium chelonae-Mycobacterium abscessus group. *Journal of Proteome Research*, **2009**, 8, 2319-30	5.6	39
64	Cytochrome P450 oxidoreductase gene and its differentially terminated cDNAs from the white rot fungus Phanerochaete chrysosporium. *Current Genetics*, **2000**, 37, 65-73	2.9	38
63	A novel P450-initiated biphasic process for sustainable biodegradation of benzo[a]pyrene in soil under nutrient-sufficient conditions by the white rot fungus Phanerochaete chrysosporium. *Journal of Hazardous Materials*, **2013**, 261, 675-83	12.8	37
62	Multiple p450alk (cytochrome P450 alkane hydroxylase) genes from the halotolerant yeast Debaryomyces hansenii. *Gene*, **1999**, 226, 139-46	3.8	37
61	Mineralization of mono- and dichlorobenzenes and simultaneous degradation of chloro- and methyl-substituted benzenes by the white rot fungus Phanerochaete chrysosporium. *Applied and Environmental Microbiology*, **1995**, 61, 677-80	4.8	37
60	Cytochrome b□reductase-cytochrome b□as an active P450 redox enzyme system in Phanerochaete chrysosporium: atypical properties and in vivo evidence of electron transfer capability to CYP63A2. *Archives of Biochemistry and Biophysics*, **2011**, 509, 26-32	4.1	36
59	Biotransformation of linear alkylbenzene sulfonate (LAS) by Phanerochaete chrysosporium: oxidation of alkyl side-chain. *Biodegradation*, **2001**, 12, 443-53	4.1	36
58	Non-involvement of lignin peroxidases and manganese peroxidases in 2,4,5-trichlorophenoxyacetic acid degradation byPhanerochaete chrysosporium. *Biotechnology Letters*, **1992**, 14, 1089-1092	3	36
57	A fungal P450 (CYP5136A3) capable of oxidizing polycyclic aromatic hydrocarbons and endocrine disrupting alkylphenols: role of Trp(129) and Leu(324). *PLoS ONE*, **2011**, 6, e28286	3.7	35
56	Gut microbiome diversity influenced more by the Westernized dietary regime than the body mass index as assessed using effect size statistic. *MicrobiologyOpen*, **2017**, 6, e00476	3.4	34
55	Genomewide annotation and comparative genomics of cytochrome P450 monooxygenases (P450s) in the polypore species Bjerkandera adusta, Ganoderma sp. and Phlebia brevispora. *Mycologia*, **2013**, 105, 1445-55	2.4	33
54	Physiological regulation, xenobiotic induction, and heterologous expression of P450 monooxygenase gene pc-3 (CYP63A3), a new member of the CYP63 gene cluster in the white-rot fungus Phanerochaete chrysosporium. *Current Microbiology*, **2005**, 50, 292-8	2.4	32
53	A new method for species identification and differentiation of Mycobacterium chelonae complex based on amplified hsp65 restriction analysis (AHSPRA). *Molecular and Cellular Probes*, **2005**, 19, 93-9	3.3	31

52	Tandem cytochrome P450 monooxygenase genes and splice variants in the white rot fungus Phanerochaete chrysosporium: cloning, sequence analysis, and regulation of differential expression. *Fungal Genetics and Biology*, **2003**, 38, 10-21	3.9	29
51	Occurrence and characterization of multiple novel genotypes of Mycobacterium immunogenum and Mycobacterium chelonae in metalworking fluids. *FEMS Microbiology Ecology*, **2005**, 54, 329-38	4.3	29
50	DNA-based methodologies for rapid detection, quantification, and species- or strain-level identification of respiratory pathogens (Mycobacteria and Pseudomonads) in metalworking fluids. *Journal of Occupational and Environmental Hygiene*, **2003**, 18, 966-75		28
49	A new in vitro model using small intestinal epithelial cells to enhance infection of Cryptosporidium parvum. *Journal of Microbiological Methods*, **2014**, 106, 47-54	2.8	26
48	Modulation of in vitro phagocytic uptake and immunogenicity potential of modified Herceptin-conjugated PLGA-PEG nanoparticles for drug delivery. *Colloids and Surfaces B: Biointerfaces*, **2018**, 162, 271-278	6	25
47	REGULATION AND HETEROLOGOUS EXPRESSION OF P450 ENZYME SYSTEM COMPONENTS OF THE WHITE ROT FUNGUS PHANEROCHAETE CHRYSOSPORIUM. *Enzyme and Microbial Technology*, **2008**, 43, 205-213	3.8	22
46	DNA damage, redox changes, and associated stress-inducible signaling events underlying the apoptosis and cytotoxicity in murine alveolar macrophage cell line MH-S by methanol-extracted Stachybotrys chartarum toxins. *Toxicology and Applied Pharmacology*, **2006**, 214, 297-308	4.6	22
45	Method for rapid identification and differentiation of the species of the Mycobacterium chelonae complex based on 16S-23S rRNA gene internal transcribed spacer PCR-restriction analysis. *Journal of Clinical Microbiology*, **2005**, 43, 4466-72	9.7	21
44	The protecting-group directed diastereoselective Nozaki-Hiyama-Kishi (NHK) reaction: total synthesis and biological evaluation of zeaenol, 7-epi-zeaenol and its analogues. *Organic and Biomolecular Chemistry*, **2014**, 12, 9683-95	3.9	19
43	Rational engineering of the fungal P450 monooxygenase CYP5136A3 to improve its oxidizing activity toward polycyclic aromatic hydrocarbons. *Protein Engineering, Design and Selection*, **2013**, 26, 553-7	1.9	19
42	MyD88 mediates in vivo effector functions of alveolar macrophages in acute lung inflammatory responses to carbon nanotube exposure. *Toxicology and Applied Pharmacology*, **2015**, 288, 322-9	4.6	18
41	Genome Sequence of the Chestnut Blight Fungus EP155: A Fundamental Resource for an Archetypical Invasive Plant Pathogen. *Phytopathology*, **2020**, 110, 1180-1188	3.8	17
40	Cloning and characterization of the cytochrome P450 oxidoreductase gene from the zygomycete fungus Cunninghamella. *Biochemical and Biophysical Research Communications*, **2000**, 268, 345-53	3.4	17
39	Aquaporins in lung health and disease: Emerging roles, regulation, and clinical implications. *Respiratory Medicine*, **2020**, 174, 106193	4.6	16
38	Development of a rapid ATP bioluminescence assay for biocidal susceptibility testing of rapidly growing mycobacteria. *Journal of Clinical Microbiology*, **2010**, 48, 3725-8	9.7	15
37	Comparative toxicity reduction potential of UV/sodium percarbonate and UV/hydrogen peroxide treatments for bisphenol A in water: An integrated analysis using chemical, computational, biological, and metabolomic approaches. *Water Research*, **2021**, 190, 116755	12.5	15
36	Expanding the mycobacterial diversity of metalworking fluids (MWFs): evidence showing MWF colonization by Mycobacterium abscessus. *FEMS Microbiology Ecology*, **2012**, 79, 392-9	4.3	12
35	Multigenic control and sex bias in host susceptibility to spore-induced pulmonary anthrax in mice. *Infection and Immunity*, **2011**, 79, 3204-15	3.7	12

34	Microbial P450 Enzymes in Bioremediation and Drug Discovery: Emerging Potentials and Challenges. *Current Protein and Peptide Science*, **2018**, 19, 75-86	2.8	12
33	Multifaceted Supramolecular Interactions from C-Methylresorcin[4]arene Lead to an Enhancement in In Vitro Antibacterial Activity of Gatifloxacin. *Chemistry - A European Journal*, **2017**, 23, 18171-18179	4.8	11
32	Molecular Detection, Quantification, and Toxigenicity Profiling of Aeromonas spp. in Source- and Drinking-Water. *Open Microbiology Journal*, **2014**, 8, 32-9	0.8	11
31	Peptide nucleic acid-fluorescence in situ hybridization (PNA-FISH) assay for specific detection of Mycobacterium immunogenum and DNA-FISH assay for analysis of pseudomonads in metalworking fluids and sputum. *Molecular and Cellular Probes*, **2008**, 22, 273-80	3.3	11
30	Global gene expression changes underlying Stachybotrys chartarum toxin-induced apoptosis in murine alveolar macrophages: evidence of multiple signal transduction pathways. *Apoptosis: an International Journal on Programmed Cell Death*, **2007**, 12, 535-48	5.4	11
29	Electrically heatable carbon nanotube point-of-use filters for effective separation and in-situ inactivation of. *Chemical Engineering Journal*, **2019**, 366, 21-26	14.7	10
28	Differential biocide susceptibility of the multiple genotypes of Mycobacterium immunogenum. *Journal of Industrial Microbiology and Biotechnology*, **2008**, 35, 197-203	4.2	10
27	Draft genome sequence of a monokaryotic model brown-rot fungus SB12. *Genomics Data*, **2017**, 14, 21-23		9
26	Carbon Nanotube and Asbestos Exposures Induce Overlapping but Distinct Profiles of Lung Pathology in Non-Swiss Albino CF-1 Mice. *Toxicologic Pathology*, **2016**, 44, 211-25	2.1	8
25	Alveolar macrophage innate response to Mycobacterium immunogenum, the etiological agent of hypersensitivity pneumonitis: role of JNK and p38 MAPK pathways. *PLoS ONE*, **2013**, 8, e83172	3.7	8
24	Susceptibility of Mycobacterium immunogenum and Pseudomonas fluorescens to formaldehyde and non-formaldehyde biocides in semi-synthetic metalworking fluids. *International Journal of Molecular Sciences*, **2011**, 12, 725-41	6.3	8
23	Specific detection and quantification of culturable and non-culturable mycobacteria in metalworking fluids by fluorescence-based methods. *Letters in Applied Microbiology*, **2008**, 47, 451-6	2.9	8
22	Early immunopathological events in acute model of mycobacterial hypersensitivity pneumonitis in mice. *Journal of Immunotoxicology*, **2017**, 14, 77-88	3.1	7
21	CYPome of the conifer pathogen Heterobasidion irregulare: Inventory, phylogeny, and transcriptional analysis of the response to biocontrol. *Fungal Biology*, **2017**, 121, 158-171	2.8	7
20	P450 redox enzymes in the white rot fungus Phanerochaete chrysosporium: gene transcription, heterologous expression, and activity analysis on the purified proteins. *Current Microbiology*, **2010**, 61, 306-14	2.4	7
19	Extended tracking of the microbial community structure and dynamics in an industrial synthetic metalworking fluid system. *FEMS Microbiology Ecology*, **2014**, 87, 664-77	4.3	6
18	Development of a species-specific colorimetric-PCR assay for detection and species differentiation of Mycobacterium immunogenum and Mycobacterium chelonae and its comparison with quantitative real-time PCR for field metalworking fluids. *Molecular and Cellular Probes*, **2009**, 23, 75-82	3.3	6
17	Exposure to perfluorooctanoic acid (PFOA) decreases neutrophil migration response to injury in zebrafish embryos. *BMC Research Notes*, **2020**, 13, 408	2.3	6

16	Novel antigens of Mycobacterium immunogenum relevant in serodiagnosis of occupational hypersensitivity pneumonitis in machinists. *Annals of Allergy, Asthma and Immunology*, **2015**, 114, 525-6	3.2	5
15	Mineralization of trichloroethylene (TCE) by the white rot fungus Phanerochaete chrysosporium. *Bulletin of Environmental Contamination and Toxicology*, **2000**, 65, 28-34	2.7	5
14	T-cell antigens of Mycobacterium immunogenum, an etiological agent of occupational hypersensitivity pneumonitis. *Molecular Immunology*, **2016**, 75, 168-77	4.3	5
13	SHP-2 Mediates Cryptosporidium parvum Infectivity in Human Intestinal Epithelial Cells. *PLoS ONE*, **2015**, 10, e0142219	3.7	4
12	Genetic susceptibility to toxicologic lung responses among inbred mouse strains following exposure to carbon nanotubes and profiling of underlying gene networks. *Toxicology and Applied Pharmacology*, **2017**, 327, 59-70	4.6	3
11	Towards on-site detection of cadmium in human urine. *Journal of Electroanalytical Chemistry*, **2020**, 859, 113808	4.1	3
10	Human leukocyte antigen (HLA)-binding epitopes dataset for the newly identified T-cell antigens of Mycobacterium immunogenum. *Data in Brief*, **2016**, 8, 1069-71	1.2	3
9	Antimicrobial activity of selected natural products against Gram-positive, Gram-negative and Acid-fast bacterial pathogens. *Alternative Medicine Studies*, **2012**, 2, 13		3
8	Association of Streptomyces community composition determined by PCR-denaturing gradient gel electrophoresis with indoor mold status. *Environmental Monitoring and Assessment*, **2014**, 186, 8773-83	3.1	2
7	Secretome differences between the taxonomically related but clinically differing mycobacterial species Mycobacterium abscessus and M. chelonae. *Journal of Integrated OMICS*, **2012**, 2,	0.5	2
6	Crosstalk between gut microbiota and lung inflammation in murine toxicity models of respiratory exposure or co-exposure to carbon nanotube particles and cigarette smoke extract. *Toxicology and Applied Pharmacology*, **2022**, 447, 116066	4.6	2
5	Modeling and simulation of colonization of water-based metalworking fluid by Mycobacterium immunogenum. *Journal of Environmental Chemical Engineering*, **2018**, 6, 4953-4960	6.8	1
4	Capture of Magnetic Microspheres in Electrokinetic Flow for Application in Lab-on-Chip Devices **2012**,		1
3	Omics analyses and biochemical study of Phlebiopsis gigantea elucidate its degradation strategy of wood extractives. *Scientific Reports*, **2021**, 11, 12528	4.9	0
2	Tuberculosis and Other Mycobacteria **2012**, 559-582		
1	Bloodborne Pathogens in the Workplace **2012**, 535-558		