

Jagjit S Yadav

List of Publications by Year in descending order

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87
papers

5,373
citations

109264

35
h-index

85498

71
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89
all docs

89
docs citations

89
times ranked

5597
citing authors

#	ARTICLE	IF	CITATIONS
1	The Paleozoic Origin of Enzymatic Lignin Decomposition Reconstructed from 31 Fungal Genomes. <i>Science</i> , 2012, 336, 1715-1719.	6.0	1,424
2	Genome, transcriptome, and secretome analysis of wood decay fungus <i>Postia placenta</i> supports unique mechanisms of lignocellulose conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1954-1959.	3.3	530
3	Comparative genomics of <i>Ceriporiopsis subvermispora</i> and <i>Phanerochaete chrysosporium</i> provide insight into selective ligninolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5458-5463.	3.3	259
4	Comparative Genomics of Early-Diverging Mushroom-Forming Fungi Provides Insights into the Origins of Lignocellulose Decay Capabilities. <i>Molecular Biology and Evolution</i> , 2016, 33, 959-970.	3.5	213
5	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	1.8	175
6	Degradation of benzene, toluene, ethylbenzene, and xylenes (BTEX) by the lignin-degrading basidiomycete <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 1993, 59, 756-762.	1.4	175
7	Comparative genomics of the white-rot fungi, <i>Phanerochaete carnososa</i> and <i>P. chrysosporium</i> , to elucidate the genetic basis of the distinct wood types they colonize. <i>BMC Genomics</i> , 2012, 13, 444.	1.2	125
8	Degradation of polychlorinated biphenyl mixtures (Aroclors 1242, 1254, and 1260) by the white rot fungus <i>Phanerochaete chrysosporium</i> as evidenced by congener-specific analysis. <i>Applied and Environmental Microbiology</i> , 1995, 61, 2560-2565.	1.4	120
9	P450 monooxygenases (P450 _{ome}) of the model white rot fungus <i>Phanerochaete chrysosporium</i> . <i>Critical Reviews in Microbiology</i> , 2012, 38, 339-363.	2.7	116
10	Genome-to-function characterization of novel fungal P450 monooxygenases oxidizing polycyclic aromatic hydrocarbons (PAHs). <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 492-497.	1.0	107
11	CYP63A2, a Catalytically Versatile Fungal P450 Monooxygenase Capable of Oxidizing Higher-Molecular-Weight Polycyclic Aromatic Hydrocarbons, Alkylphenols, and Alkanes. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2692-2702.	1.4	93
12	Genome-wide structural and evolutionary analysis of the P450 monooxygenase genes (P450 _{ome}) in the white rot fungus <i>Phanerochaete chrysosporium</i> : Evidence for gene duplications and extensive gene clustering. <i>BMC Genomics</i> , 2005, 6, 92.	1.2	90
13	Analysis of the <i>Phlebiopsis gigantea</i> Genome, Transcriptome and Secretome Provides Insight into Its Pioneer Colonization Strategies of Wood. <i>PLoS Genetics</i> , 2014, 10, e1004759.	1.5	90
14	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. <i>Journal of Clinical Microbiology</i> , 2004, 42, 453-457.	1.8	74
15	Effect of electrical charges and fields on injury and viability of airborne bacteria. <i>Biotechnology and Bioengineering</i> , 2002, 79, 229-241.	1.7	68
16	Mineralization of 2,4-Dichlorophenoxyacetic Acid (2,4-D) and Mixtures of 2,4-D and 2,4,5-Trichlorophenoxyacetic Acid by <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 1993, 59, 2904-2908.	1.4	66
17	P450 _{ome} of the white rot fungus <i>Phanerochaete chrysosporium</i> : structure, evolution and regulation of expression of genomic P450 clusters. <i>Biochemical Society Transactions</i> , 2006, 34, 1165-1169.	1.6	64
18	Role of P450 Monooxygenases in the Degradation of the Endocrine-Disrupting Chemical Nonylphenol by the White Rot Fungus <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 5570-5580.	1.4	59

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19	Biocidal Activity of Formaldehyde and Nonformaldehyde Biocides toward <i>Mycobacterium immunogenum</i> and <i>Pseudomonas fluorescens</i> in Pure and Mixed Suspensions in Synthetic Metalworking Fluid and Saline. <i>Applied and Environmental Microbiology</i> , 2005, 71, 542-546.	1.4	58
20	Differential regulation and xenobiotic induction of tandem P450 monooxygenase genes <i>pc-1</i> (CYP63A1) and <i>pc-2</i> (CYP63A2) in the white-rot fungus <i>Phanerochaete chrysosporium</i> . <i>Applied Microbiology and Biotechnology</i> , 2004, 65, 559-65.	1.7	56
21	Real-time PCR assays for genus-specific detection and quantification of culturable and non-culturable mycobacteria and pseudomonads in metalworking fluids. <i>Molecular and Cellular Probes</i> , 2004, 18, 67-73.	0.9	52
22	Mineralization of mono- and dichlorobenzenes and simultaneous degradation of chloro- and methyl-substituted benzenes by the white rot fungus <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 1995, 61, 677-680.	1.4	47
23	Immunoproteomic Identification of Secretory and Subcellular Protein Antigens and Functional Evaluation of the Secretome Fraction of <i>Mycobacterium immunogenum</i> , a Newly Recognized Species of the <i>Mycobacterium chelonae</i> ~ <i>Mycobacterium abscessus</i> Group. <i>Journal of Proteome Research</i> , 2009, 8, 2319-2330.	1.8	46
24	Gut microbiome diversity influenced more by the Westernized dietary regime than the body mass index as assessed using effect size statistic. <i>MicrobiologyOpen</i> , 2017, 6, e00476.	1.2	46
25	Non-involvement of lignin peroxidases and manganese peroxidases in 2,4,5-trichlorophenoxyacetic acid degradation by <i>Phanerochaete chrysosporium</i> . <i>Biotechnology Letters</i> , 1992, 14, 1089-1092.	1.1	45
26	A novel P450-initiated biphasic process for sustainable biodegradation of benzo[a]pyrene in soil under nutrient-sufficient conditions by the white rot fungus <i>Phanerochaete chrysosporium</i> . <i>Journal of Hazardous Materials</i> , 2013, 261, 675-683.	6.5	45
27	Microarray-based global differential expression profiling of P450 monooxygenases and regulatory proteins for signal transduction pathways in the white rot fungus <i>Phanerochaete chrysosporium</i> . <i>Molecular Genetics and Genomics</i> , 2005, 274, 454-466.	1.0	43
28	Multiple P450alk (cytochrome P450 alkane hydroxylase) genes from the halotolerant yeast <i>Debaryomyces hansenii</i> . <i>Gene</i> , 1999, 226, 139-146.	1.0	41
29	Biotransformation of linear alkylbenzene sulfonate (LAS) by <i>Phanerochaete chrysosporium</i> : oxidation of alkyl side-chain. <i>Biodegradation</i> , 2001, 12, 443-453.	1.5	40
30	Cytochrome b5 reductase—cytochrome b5 as an active P450 redox enzyme system in <i>Phanerochaete chrysosporium</i> : Atypical properties and in vivo evidence of electron transfer capability to CYP63A2. <i>Archives of Biochemistry and Biophysics</i> , 2011, 509, 26-32.	1.4	40
31	A Fungal P450 (CYP5136A3) Capable of Oxidizing Polycyclic Aromatic Hydrocarbons and Endocrine Disrupting Alkylphenols: Role of Trp129 and Leu324. <i>PLoS ONE</i> , 2011, 6, e28286.	1.1	40
32	Genomewide annotation and comparative genomics of cytochrome P450 monooxygenases (P450s) in the polypore species <i>Bjerkandera adusta</i> , <i>Ganoderma</i> sp. and <i>Phlebia brevispora</i> . <i>Mycologia</i> , 2013, 105, 1445-1455.	0.8	40
33	Cytochrome P450 oxidoreductase gene and its differentially terminated cDNAs from the white rot fungus <i>Phanerochaete chrysosporium</i> . <i>Current Genetics</i> , 2000, 37, 65-73.	0.8	39
34	Modulation of in vitro phagocytic uptake and immunogenicity potential of modified Herceptin®-conjugated PLGA-PEG nanoparticles for drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 271-278.	2.5	38
35	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. <i>Water Research</i> , 2021, 190, 116755.	5.3	37
36	Occurrence and characterization of multiple novel genotypes of <i>Mycobacterium immunogenum</i> and <i>Mycobacterium chelonae</i> in metalworking fluids. <i>FEMS Microbiology Ecology</i> , 2005, 54, 329-338.	1.3	35

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37	Physiological Regulation, Xenobiotic Induction, and Heterologous Expression of P450 Monooxygenase Gene <i>pc-3</i> (CYP63A3), a New Member of the CYP63 Gene Cluster in the White-rot Fungus <i>Phanerochaete chrysosporium</i> . <i>Current Microbiology</i> , 2005, 50, 292-298.	1.0	34
38	A new method for species identification and differentiation of <i>Mycobacterium chelonae</i> complex based on amplified <i>hsp65</i> restriction analysis (AHSPRA). <i>Molecular and Cellular Probes</i> , 2005, 19, 93-99.	0.9	34
39	Genome Sequence of the Chestnut Blight Fungus <i>Cryphonectria parasitica</i> EP155: A Fundamental Resource for an Archetypical Invasive Plant Pathogen. <i>Phytopathology</i> , 2020, 110, 1180-1188.	1.1	34
40	Tandem cytochrome P450 monooxygenase genes and splice variants in the white rot fungus <i>Phanerochaete chrysosporium</i> : cloning, sequence analysis, and regulation of differential expression. <i>Fungal Genetics and Biology</i> , 2003, 38, 10-21.	0.9	32
41	DNA-Based Methodologies for Rapid Detection, Quantification, and Species- or Strain-Level Identification of Respiratory Pathogens (<i>Mycobacteria</i> and <i>Pseudomonads</i>) in Metalworking Fluids. <i>Journal of Occupational and Environmental Hygiene</i> , 2003, 18, 966-975.	0.5	30
42	A new in vitro model using small intestinal epithelial cells to enhance infection of <i>Cryptosporidium parvum</i> . <i>Journal of Microbiological Methods</i> , 2014, 106, 47-54.	0.7	30
43	Aquaporins in lung health and disease: Emerging roles, regulation, and clinical implications. <i>Respiratory Medicine</i> , 2020, 174, 106193.	1.3	30
44	Method for Rapid Identification and Differentiation of the Species of the <i>Mycobacterium chelonae</i> Complex Based on 16S-23S rRNA Gene Internal Transcribed Spacer PCR-Restriction Analysis. <i>Journal of Clinical Microbiology</i> , 2005, 43, 4466-4472.	1.8	29
45	Regulation and heterologous expression of P450 enzyme system components of the white rot fungus <i>Phanerochaete chrysosporium</i> . <i>Enzyme and Microbial Technology</i> , 2008, 43, 205-213.	1.6	25
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 <i>Stachybotrys chartarum</i> toxins. <i>Toxicology and Applied Pharmacology</i> , 2006, 214, 297-308.	1.3	24
47	Rational engineering of the fungal P450 monooxygenase CYP5136A3 to improve its oxidizing activity toward polycyclic aromatic hydrocarbons. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 553-557.	1.0	23
48	MyD88 mediates in vivo effector functions of alveolar macrophages in acute lung inflammatory responses to carbon nanotube exposure. <i>Toxicology and Applied Pharmacology</i> , 2015, 288, 322-329.	1.3	23
49	The protecting-group directed diastereoselective Nozaki-Hiyama-Kishi (NHK) reaction: total synthesis and biological evaluation of zeaenol, 7-epi-zeaenol and its analogues. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9683-9695.	1.5	20
50	Cloning and Characterization of the Cytochrome P450 Oxidoreductase Gene from the Zygomycete Fungus <i>Cunninghamella</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 268, 345-353.	1.0	19
51	Development of a Rapid ATP Bioluminescence Assay for Biocidal Susceptibility Testing of Rapidly Growing <i>Mycobacteria</i> . <i>Journal of Clinical Microbiology</i> , 2010, 48, 3725-3728.	1.8	19
52	Draft genome sequence of a monokaryotic model brown-rot fungus <i>Postia</i> (<i>Rhodonia</i>) <i>placenta</i> SB12. <i>Genomics Data</i> , 2017, 14, 21-23.	1.3	19
53	Exposure to perfluorooctanoic acid (PFOA) decreases neutrophil migration response to injury in zebrafish embryos. <i>BMC Research Notes</i> , 2020, 13, 408.	0.6	18
54	Molecular Detection, Quantification, and Toxigenicity Profiling of <i>Aeromonas</i> spp. in Source- and Drinking-Water. <i>Open Microbiology Journal</i> , 2014, 8, 32-39.	0.2	16

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55	Microbial P450 Enzymes in Bioremediation and Drug Discovery: Emerging Potentials and Challenges. <i>Current Protein and Peptide Science</i> , 2017, 19, 75-86.	0.7	16
56	Peptide nucleic acid-fluorescence in situ hybridization (PNA-FISH) assay for specific detection of <i>Mycobacterium immunogenum</i> and DNA-FISH assay for analysis of pseudomonads in metalworking fluids and sputum. <i>Molecular and Cellular Probes</i> , 2008, 22, 273-280.	0.9	15
57	Expanding the mycobacterial diversity of metalworking fluids (MWFs): evidence showing MWF colonization by <i>Mycobacterium abscessus</i> . <i>FEMS Microbiology Ecology</i> , 2012, 79, 392-399.	1.3	15
58	Multifaceted Supramolecular Interactions from C ₆₀ -Methylresorcin[4]arene Lead to an Enhancement in In Vitro Antibacterial Activity of Gatifloxacin. <i>Chemistry - A European Journal</i> , 2017, 23, 18171-18179.	1.7	15
59	Electrically heatable carbon nanotube point-of-use filters for effective separation and in-situ inactivation of <i>Legionella pneumophila</i> . <i>Chemical Engineering Journal</i> , 2019, 366, 21-26.	6.6	15
60	Multigenic Control and Sex Bias in Host Susceptibility to Spore-Induced Pulmonary Anthrax in Mice. <i>Infection and Immunity</i> , 2011, 79, 3204-3215.	1.0	14
61	Carbon Nanotube and Asbestos Exposures Induce Overlapping but Distinct Profiles of Lung Pathology in Non-Swiss Albino CF-1 Mice. <i>Toxicologic Pathology</i> , 2016, 44, 211-225.	0.9	14
62	Differential biocide susceptibility of the multiple genotypes of <i>Mycobacterium immunogenum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 197-203.	1.4	13
63	Global gene expression changes underlying <i>Stachybotrys chartarum</i> toxin-induced apoptosis in murine alveolar macrophages: Evidence of multiple signal transduction pathways. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007, 12, 535-548.	2.2	12
64	Specific detection and quantification of culturable and non-culturable mycobacteria in metalworking fluids by fluorescence-based methods. <i>Letters in Applied Microbiology</i> , 2008, 47, 451-456.	1.0	12
65	Susceptibility of <i>Mycobacterium immunogenum</i> and <i>Pseudomonas fluorescens</i> to Formaldehyde and Non-Formaldehyde Biocides in Semi-Synthetic Metalworking Fluids. <i>International Journal of Molecular Sciences</i> , 2011, 12, 725-741.	1.8	11
66	Alveolar Macrophage Innate Response to <i>Mycobacterium immunogenum</i> , the Etiological Agent of Hypersensitivity Pneumonitis: Role of JNK and p38 MAPK Pathways. <i>PLoS ONE</i> , 2013, 8, e83172.	1.1	11
67	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. <i>Toxicology and Applied Pharmacology</i> , 2022, 447, 116066.	1.3	11
68	CYPome of the conifer pathogen <i>Heterobasidion irregulare</i> : Inventory, phylogeny, and transcriptional analysis of the response to biocontrol. <i>Fungal Biology</i> , 2017, 121, 158-171.	1.1	9
69	Towards on-site detection of cadmium in human urine. <i>Journal of Electroanalytical Chemistry</i> , 2020, 859, 113808.	1.9	9
70	Extended tracking of the microbial community structure and dynamics in an industrial synthetic metalworking fluid system. <i>FEMS Microbiology Ecology</i> , 2014, 87, 664-677.	1.3	8
71	Early immunopathological events in acute model of mycobacterial hypersensitivity pneumonitis in mice. <i>Journal of Immunotoxicology</i> , 2017, 14, 77-88.	0.9	8
72	Genetic susceptibility to toxicologic lung responses among inbred mouse strains following exposure to carbon nanotubes and profiling of underlying gene networks. <i>Toxicology and Applied Pharmacology</i> , 2017, 327, 59-70.	1.3	8

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73	Mineralization of Trichloroethylene (TCE) by the White Rot Fungus <i>Phanerochaete chrysosporium</i> . <i>Bulletin of Environmental Contamination and Toxicology</i> , 2000, 65, 28-34.	1.3	7
74	Development of a species-specific colorimetric-PCR assay for detection and species differentiation of <i>Mycobacterium immunogenum</i> and <i>Mycobacterium chelonae</i> and its comparison with quantitative real-time PCR for field metalworking fluids. <i>Molecular and Cellular Probes</i> , 2009, 23, 75-82.	0.9	7
75	P450 Redox Enzymes in the White Rot Fungus <i>Phanerochaete chrysosporium</i> : Gene Transcription, Heterologous Expression, and Activity Analysis on the Purified Proteins. <i>Current Microbiology</i> , 2010, 61, 306-314.	1.0	7
76	Novel antigens of <i>Mycobacterium immunogenum</i> relevant in serodiagnosis of occupational hypersensitivity pneumonitis in machinists. <i>Annals of Allergy, Asthma and Immunology</i> , 2015, 114, 525-526.e4.	0.5	6
77	T-cell antigens of <i>Mycobacterium immunogenum</i> , an etiological agent of occupational hypersensitivity pneumonitis. <i>Molecular Immunology</i> , 2016, 75, 168-177.	1.0	6
78	Secretome differences between the taxonomically related but clinically differing mycobacterial species <i>Mycobacterium abscessus</i> and <i>M. chelonae</i> . <i>Journal of Integrated OMICS</i> , 2012, 2, .	0.5	6
79	Omics analyses and biochemical study of <i>Phlebiopsis gigantea</i> elucidate its degradation strategy of wood extractives. <i>Scientific Reports</i> , 2021, 11, 12528.	1.6	5
80	Antimicrobial activity of selected natural products against Gram-positive, Gram-negative and Acid-fast bacterial pathogens. <i>Alternative Medicine Studies</i> , 2012, 2, 13.	0.2	4
81	SHP-2 Mediates <i>Cryptosporidium parvum</i> Infectivity in Human Intestinal Epithelial Cells. <i>PLoS ONE</i> , 2015, 10, e0142219.	1.1	4
82	Association of <i>Streptomyces</i> community composition determined by PCR-denaturing gradient gel electrophoresis with indoor mold status. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 8773-8783.	1.3	3
83	Human leukocyte antigen (HLA)-binding epitopes dataset for the newly identified T-cell antigens of <i>Mycobacterium immunogenum</i> . <i>Data in Brief</i> , 2016, 8, 1069-1071.	0.5	3
84	Frontispiece: Multifaceted Supramolecular Interactions from π -Methylresorcin[4]arene Lead to an Enhancement in In Vitro Antibacterial Activity of Gatifloxacin. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	2
85	Capture of Magnetic Microspheres in Electrokinetic Flow for Application in Lab-on-Chip Devices. , 2012, , .		1
86	Modeling and simulation of colonization of water-based metalworking fluid by <i>Mycobacterium immunogenum</i> . <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4953-4960.	3.3	1
87	Factors Alleviating Cadmium Toxicity in White Rot Fungus. <i>Journal of Bioremediation & Biodegradation</i> , 2014, 05, .	0.5	0