

Upendra N Dwivedi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90 papers	2,547 citations	26 h-index	48 g-index
91 ext. papers	2,963 ext. citations	4 avg, IF	5.38 L-index

#	Paper	IF	Citations
90	Structurefunction relationship among bacterial, fungal and plant laccases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 68, 117-128		302
89	Delayed ripening of banana fruit by salicylic acid. <i>Plant Science</i> , 2000 , 158, 87-96	5.3	243
88	Phenylpropanoid Metabolism in Ripening Fruits. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2010 , 9, 398-416	16.4	114
87	Modification of lignin biosynthesis in transgenic Nicotiana through expression of an antisense O-methyltransferase gene from Populus. <i>Plant Molecular Biology</i> , 1994 , 26, 61-71	4.6	107
86	A Comprehensive Review on Function and Application of Plant Peroxidases. <i>Biochemistry and Analytical Biochemistry: Current Research</i> , 2017 , 06,		105
85	Synthesis of phytochelatins and modulation of antioxidants in response to cadmium stress in Cuscuta reflexa--an angiospermic parasite. <i>Journal of Plant Physiology</i> , 2004 , 161, 665-74	3.6	103
84	Genotypic difference in salinity tolerance of green gram cultivars. <i>Plant Science</i> , 2004 , 166, 1135-1142	5.3	91
83	Alzheimer's disease: An overview of amyloid beta dependent pathogenesis and its therapeutic implications along with in silico approaches emphasizing the role of natural products. <i>Journal of the Neurological Sciences</i> , 2016 , 361, 256-71	3.2	89
82	Structural studies on corn nitrate reductase: refined structure of the cytochrome b reductase fragment at 2.5 Å, its ADP complex and an active-site mutant and modeling of the cytochrome b domain. <i>Journal of Molecular Biology</i> , 1995 , 248, 931-48	6.5	88
81	Manipulation of lignin in plants with special reference to O-methyltransferase. <i>Plant Science</i> , 2008 , 174, 264-277	5.3	60
80	Effect of Ethrel and 1-methylcyclopropene (1-MCP) on antioxidants in mango (Mangifera indica var. Dashehari) during fruit ripening. <i>Food Chemistry</i> , 2008 , 111, 951-956	8.5	59
79	Tinospora cordifolia extract modulates COX-2, iNOS, ICAM-1, pro-inflammatory cytokines and redox status in murine model of asthma. <i>Journal of Ethnopharmacology</i> , 2014 , 153, 326-37	5	56
78	Suppression of oxidative stress and pro-inflammatory mediators by Cymbopogon citratus D. Stapf extract in lipopolysaccharide stimulated murine alveolar macrophages. <i>Food and Chemical Toxicology</i> , 2010 , 48, 2913-9	4.7	52
77	Immobilization of papaya laccase in chitosan led to improved multipronged stability and dye discoloration. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 288-95	7.9	49
76	Molecular docking and dynamics simulation analyses unraveling the differential enzymatic catalysis by plant and fungal laccases with respect to lignin biosynthesis and degradation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015 , 33, 1835-49	3.6	40
75	Salicylic acid modulates glutathione metabolism in pea seedlings. <i>Journal of Plant Physiology</i> , 1998 , 153, 409-414	3.6	39
74	Plant triterpenoid saponins: biosynthesis, in vitro production, and pharmacological relevance. <i>Protoplasma</i> , 2019 , 256, 1463-1486	3.4	38

73	Purification and characterization of peroxidase from <i>Leucaena leucocephala</i> , a tree legume. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 68, 168-173		38
72	Ocimum metabolomics in response to abiotic stresses: Cold, flood, drought and salinity. <i>PLoS ONE</i> , 2019 , 14, e0210903	3.7	37
71	Sterol partitioning by HMGR and DXR for routing intermediates toward withanolide biosynthesis. <i>Physiologia Plantarum</i> , 2014 , 152, 617-33	4.6	37
70	Lignin genetic engineering for improvement of wood quality: Applications in paper and textile industries, fodder and bioenergy production. <i>South African Journal of Botany</i> , 2014 , 91, 107-125	2.9	36
69	C-Phycocyanin: an effective protective agent against thymic atrophy by tributyltin. <i>Toxicology Letters</i> , 2011 , 204, 2-11	4.4	36
68	SLERF36, an EAR-motif-containing ERF gene from tomato, alters stomatal density and modulates photosynthesis and growth. <i>Journal of Experimental Botany</i> , 2013 , 64, 3237-47	7	33
67	Role of efflux pumps and intracellular thiols in natural antimony resistant isolates of <i>Leishmania donovani</i> . <i>PLoS ONE</i> , 2013 , 8, e74862	3.7	30
66	Down-regulation of lignin biosynthesis in transgenic <i>Leucaena leucocephala</i> harboring O-methyltransferase gene. <i>Biotechnology Progress</i> , 2006 , 22, 609-16	2.8	29
65	Terpenoids as promising therapeutic molecules against Alzheimer's disease: amyloid beta- and acetylcholinesterase-directed pharmacokinetic and molecular docking analyses. <i>Molecular Simulation</i> , 2018 , 44, 1-11	2	28
64	Purification of a thermostable laccase from <i>Leucaena leucocephala</i> using a copper alginate entrapment approach and the application of the laccase in dye decolorization. <i>Process Biochemistry</i> , 2014 , 49, 1196-1204	4.8	26
63	Purification and characterization of peroxidase from papaya (<i>Carica papaya</i>) fruit. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 167, 367-76	3.2	26
62	Molecular docking and 3D-QSAR-based virtual screening of flavonoids as potential aromatase inhibitors against estrogen-dependent breast cancer. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015 , 33, 804-19	3.6	25
61	Purification of a thermostable alkaline laccase from papaya (<i>Carica papaya</i>) using affinity chromatography. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 326-32	7.9	25
60	Transcriptomic analysis provides insights on hexavalent chromium induced DNA double strand breaks and their possible repair in midgut cells of <i>Drosophila melanogaster</i> larvae. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2013 , 747-748, 28-39	3.3	25
59	Papaya fruit ripening: ROS metabolism, gene cloning, characterization and molecular docking of peroxidase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 98, 98-105		22
58	Modulation in the conformational and stability attributes of the Alzheimer's disease associated amyloid-beta mutants and their favorable stabilization by curcumin: molecular dynamics simulation analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 407-422	3.6	21
57	Purification and characterisation of multiple forms of polygalacturonase from mango (<i>Mangifera indica</i> cv. Dashehari) fruit. <i>Food Chemistry</i> , 2008 , 111, 345-9	8.5	21
56	Tracing the tracks of genotoxicity by trivalent and hexavalent chromium in <i>Drosophila melanogaster</i> . <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2011 , 722, 44-51	3	20

55	Chitosan immobilized novel peroxidase from <i>Azadirachta indica</i> : Characterization and application. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1713-1720	7.9	18
54	DNA topoisomerase-directed anticancerous alkaloids: ADMET-based screening, molecular docking, and dynamics simulation. <i>Biotechnology and Applied Biochemistry</i> , 2016 , 63, 125-37	2.8	18
53	Characterization of cytochrome P450 monooxygenases isolated from trichome enriched fraction of <i>Artemisia annua</i> L. leaf. <i>Gene</i> , 2012 , 510, 193-201	3.8	18
52	Modulation of mango ripening by chemicals: physiological and biochemical aspects. <i>Plant Growth Regulation</i> , 2007 , 53, 137-145	3.2	17
51	Natural Products as Anticancerous Therapeutic Molecules with Special Reference to Enzymatic Targets Topoisomerase, COX, LOX and Aromatase. <i>Current Protein and Peptide Science</i> , 2018 , 19, 238-274	2.8	15
50	Genotoxicity of dichlorvos in strains of <i>Drosophila melanogaster</i> defective in DNA repair. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014 , 766, 35-41	3	15
49	Anti-cholinergic alkaloids as potential therapeutic agents for Alzheimer's disease: an in silico approach. <i>Indian Journal of Biochemistry and Biophysics</i> , 2013 , 50, 120-5		15
48	Leishmania donovani trypanothione reductase: role of urea and guanidine hydrochloride in modulation of functional and structural properties. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 1474-84	4	14
47	Berbamine induced AMPK activation regulates mTOR/SREBP-1c axis and Nrf2/ARE pathway to allay lipid accumulation and oxidative stress in steatotic HepG2 cells. <i>European Journal of Pharmacology</i> , 2020 , 882, 173244	5.3	13
46	Proteomics indicates modulation of tubulin polymerization by L-menthol inhibiting human epithelial colorectal adenocarcinoma cell proliferation. <i>Proteomics</i> , 2011 , 11, 2115-9	4.8	13
45	Antiplasmodial activity of steroidal chalcones: evaluation of their effect on hemozoin synthesis and the new permeation pathway of Plasmodium falciparum-infected erythrocyte membrane. <i>Chemical Biology and Drug Design</i> , 2012 , 79, 610-5	2.9	12
44	Plant regeneration from callus of <i>Cuscuta reflexa</i> an angiospermic parasite and modulation of catalase and peroxidase activity by salicylic acid and naphthalene acetic acid. <i>Plant Physiology and Biochemistry</i> , 2001 , 39, 529-538	5.4	12
43	Differential expression of several xyloglucan endotransglucosylase/hydrolase genes regulates flower opening and petal abscission in roses. <i>AoB PLANTS</i> , 2013 , 5, plt030-plt030	2.9	11
42	Ventilator-associated pneumonia caused by carbapenem-resistant Enterobacteriaceae carrying multiple metallo-beta-lactamase genes. <i>Indian Journal of Pathology and Microbiology</i> , 2009 , 52, 339-42	0.6	11
41	A ripening associated peroxidase from papaya having a role in defense and lignification: heterologous expression and in-silico and in-vitro experimental validation. <i>Gene</i> , 2015 , 555, 438-47	3.8	10
40	Generation of multiple mutations in the same sequence via the polymerase chain reaction using a single selection primer. <i>Analytical Biochemistry</i> , 1994 , 221, 425-8	3.1	10
39	Protein Misfolding Diseases and Therapeutic Approaches. <i>Current Protein and Peptide Science</i> , 2019 , 20, 1226-1245	2.8	10
38	Lipoxygenase directed anti-inflammatory and anti-cancerous secondary metabolites: ADMET-based screening, molecular docking and dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017 , 35, 657-668	3.6	9

37	Pharmacophore-based virtual screening approach for identification of potent natural modulatory compounds of human Toll-like receptor 7. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019 , 37, 4721-4736	3.6	9
36	Plant derived anti-cancerous secondary metabolites as multipronged inhibitor of COX, Topo, and aromatase: molecular modeling and dynamics simulation analyses. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017 , 35, 3082-3097	3.6	9
35	In vitro regeneration of <i>Leucaena leucocephala</i> by organogenesis and somatic embryogenesis. <i>Biologia Plantarum</i> , 2008 , 52, 743-748	2.1	9
34	Modulation of oxidative and antioxidative status in diabetes by <i>asphaltum panjabinum</i> . <i>Diabetes Care</i> , 2003 , 26, 2469-70	14.6	9
33	Berberamine induced activation of the SIRT1/LKB1/AMPK signaling axis attenuates the development of hepatic steatosis in high-fat diet-induced NAFLD rats. <i>Food and Function</i> , 2021 , 12, 892-909	6.1	9
32	Structural modeling and simulation studies of human cyclooxygenase (COX) isozymes with selected terpenes: implications in drug designing and development. <i>Computers in Biology and Medicine</i> , 2013 , 43, 744-50	7	8
31	D1 protein of photosystem II: The light sensor in chloroplasts. <i>Journal of Biosciences</i> , 1995 , 20, 35-47	2.3	8
30	Role of metal ions in activity and site:site heterogeneity in isocitrate lyase of castor seedling endosperm. <i>Archives of Biochemistry and Biophysics</i> , 1984 , 235, 612-7	4.1	8
29	Heavy metal accumulation efficiency, growth and centelloside production in the medicinal herb <i>Centella asiatica</i> (L.) urban under different soil concentrations of cadmium and lead. <i>Industrial Crops and Products</i> , 2020 , 157, 112948	5.9	8
28	Down regulation of photosynthesis in <i>Artabotrys hexapetatus</i> by high light. <i>Photosynthesis Research</i> , 1995 , 46, 393-7	3.7	7
27	Caffeic acid O-methyltransferase from <i>Leucaena leucocephala</i> : Cloning, expression, characterization and molecular docking analyses. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 106, 63-70		6
26	Phylogenetic analysis, molecular modeling, substrate-inhibitor specificity, and active site comparison of bacterial, fungal, and plant heme peroxidases. <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 283-94	2.8	6
25	Structure-function analyses and molecular modeling of caffeic acid-O-methyltransferase and caffeoyl-CoA-O-methyltransferase: revisiting the basis of alternate methylation pathways during monolignol biosynthesis. <i>Biotechnology and Applied Biochemistry</i> , 2013 , 60, 170-89	2.8	6
24	Cloning, expression, functional validation and modeling of cinnamyl alcohol dehydrogenase isolated from xylem of <i>Leucaena leucocephala</i> . <i>Protein Expression and Purification</i> , 2011 , 79, 197-203	2	5
23	Formation of enzyme-bound carbanion intermediate in the isocitrate lyase-catalyzed reaction: enzymatic reaction of tetranitromethane with substrates and its dependence on effector, pH, and metal ions. <i>Archives of Biochemistry and Biophysics</i> , 1986 , 250, 238-48	4.1	5
22	CoMFA and CoMSIA-based designing of resveratrol derivatives as amyloid-beta aggregation inhibitors against Alzheimer's disease. <i>Medicinal Chemistry Research</i> , 2018 , 27, 1167-1185	2.2	4
21	Induction, isolation and purification of mimosine degradation enzyme from newly isolated <i>Pseudomonas putida</i> STM 905. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1059-1066	3.8	4
20	Mechanism of reductive photoactivation of enzymes of C4 pathway. <i>Journal of Biosciences</i> , 1992 , 17, 183-192	2.3	4

19	Curcumin: Structure-Activity Relationship Towards its Role as a Versatile Multi-Targeted Therapeutics. <i>Mini-Reviews in Organic Chemistry</i> , 2017 , 14,	1.7	4
18	Computational Approaches for Therapeutic Application of Natural Products in Alzheimer's Disease. <i>Neuromethods</i> , 2018 , 483-511	0.4	3
17	Discovering Innovative Drugs Targeting Both Cancer and Cardiovascular Disease by Shared Protein-Protein Interaction Network Analyses. <i>OMICS A Journal of Integrative Biology</i> , 2019 , 23, 417-425	3.8	3
16	Latex-less opium poppy: cause for less latex and reduced peduncle strength. <i>Physiologia Plantarum</i> , 2014 , 150, 436-45	4.6	3
15	Temporal expression of caffeic acid 3-O-methyltransferase (COMT) in mango (<i>Mangifera indica</i> var. Dashehari) fruit ripening. <i>LWT - Food Science and Technology</i> , 2011 , 44, 1782-1785	5.4	3
14	Modulation of key nitrogen assimilating enzymes by NAA and in vitro culture in <i>Cuscuta reflexa</i> . <i>Plant Physiology and Biochemistry</i> , 2003 , 41, 65-71	5.4	3
13	Elucidation of marine fungi derived anthraquinones as mycobacterial mycolic acid synthesis inhibitors: an in silico approach. <i>Molecular Biology Reports</i> , 2019 , 46, 1715-1725	2.8	2
12	Treponema pallidum putative novel drug target identification and validation: rethinking syphilis therapeutics with plant-derived terpenoids. <i>OMICS A Journal of Integrative Biology</i> , 2015 , 19, 104-14	3.8	2
11	Modulation of interaction of mutant TP53 and wild type BRCA1 by alkaloids: a computational approach towards targeting protein-protein interaction as a futuristic therapeutic intervention strategy for breast cancer impediment. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 3376-3387	3.6	2
10	Purification and characterization of Plasmodium yoelii adenosine deaminase. <i>Experimental Parasitology</i> , 2011 , 129, 368-74	2.1	2
9	Molecular dynamics simulated validation of anti-cancerous alkaloids as Topo II inhibitors screened by QSAR, pharmacophore and molecular docking approaches. <i>Medicinal Chemistry Research</i> , 2015 , 24, 2972-2985	2.2	1
8	Citrus Functional Genomics and Molecular Modeling in Relation to Citrus sinensis (Sweet Orange) Infection with Xylella fastidiosa (Citrus Variegated Chlorosis). <i>OMICS A Journal of Integrative Biology</i> , 2016 , 20, 485-90	3.8	1
7	In vivo nitrate reductase activity in dark- and light-grown sugarcane callus. <i>Plant Cell Reports</i> , 1984 , 3, 138-41	5.1	1
6	Recombinant Expression and Characterization of Lemon (<i>Citrus limon</i>) Peroxidase. <i>Protein and Peptide Letters</i> , 2021 , 28, 469-479	1.9	1
5	Purification and characterization of a zinc-dependent cinnamyl alcohol dehydrogenase from <i>Leucaena leucocephala</i> , a tree legume. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 3414-23	3.2	0
4	Alteration in the acceptor side of photosystem II of chloroplast by high light. <i>Journal of Biosciences</i> , 1996 , 21, 527-533	2.3	
3	Modulation of interaction of BRCA1-RAD51 and BRCA1-AURKA protein complexes by natural metabolites using as possible therapeutic intervention toward cardiotoxic effects of cancer drugs: an approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-17	3.6	
2	Identification of repurposed protein kinase B binders from FDA-approved drug library: a hybrid-structure activity relationship and systems modeling based approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 660-672	3.6	

- 1 CDPBC: A Software Application for Estimation of Concentration Dependent Plasma Binding Capacity of Small Molecule. *Molecular Informatics*, **2018**, 37, e1800007 3.8