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Atomic structure of ferredoxin-NADP+ reductase:  
prototype for a structurally novel flavoenzyme family

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#	Paper	IF	Citations
492	Characterization of the cross-linked complex formed between ferredoxin-NADP+ reductase and flavodoxin from Anabaena PCC 7119. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1991</b> , 1059, 149-156	4.6	18
491	An unusual yet strongly conserved flavoprotein reductase in bacteria and mammals. <b>1991</b> , 16, 154-8		135
490	Active site of DNA photolyase: tryptophan-306 is the intrinsic hydrogen atom donor essential for flavin radical photoreduction and DNA repair in vitro. <i>Biochemistry</i> , <b>1991</b> , 30, 6322-9	3.2	147
489	Monoclonal antibody studies of ferredoxin:NADP+ oxidoreductase. <i>Archives of Biochemistry and Biophysics</i> , <b>1991</b> , 290, 522-7	4.1	10
488	Crystals of Anabaena PCC 7119 ferredoxin-NADP+ reductase. <i>Journal of Molecular Biology</i> , <b>1991</b> , 218, 271-2	6.5	11
487	New flavoenzymes: Current Opinion in Structural Biology 1991, 1:954-967. <b>1991</b> , 1, 954-967		24
486	Potential DNA slippage structures acquired during evolutionary divergence of Acinetobacter calcoaceticus chromosomal benABC and Pseudomonas putida TOL pWW0 plasmid xylXYZ, genes encoding benzoate dioxygenases. <b>1991</b> , 173, 7540-8		125
485	Atomic structure of FKBP-FK506, an immunophilin-immunosuppressant complex. <i>Science</i> , <b>1991</b> , 252, 839-42	33.3	582
484	Novel fold and putative receptor binding site of granulocyte-macrophage colony-stimulating factor. <i>Science</i> , <b>1991</b> , 254, 1779-82	33.3	201
483	Expression of Maize Ferredoxin cDNA in Escherichia coli: Comparison of Photosynthetic and Nonphotosynthetic Ferredoxin Isoproteins and their Chimeric Molecule. <b>1991</b> , 97, 1395-401		49
482	Cloning and characterization of inducible nitric oxide synthase from mouse macrophages. <i>Science</i> , <b>1992</b> , 256, 225-8	33.3	1725
481	Structure and function of the mitochondrial P450 system electron transfer proteins, adrenodoxin reductase and adrenodoxin. <b>1992</b> , 3,		
480	Use of rosy mutant strains of Drosophila melanogaster to probe the structure and function of xanthine dehydrogenase. <b>1992</b> , 285 ( Pt 2), 507-13		37
479	Structurally and functionally conserved regions of cytochrome P-450 reductase as targets for DNA amplification by the polymerase chain reaction. Cloning and nucleotide sequence of the Schizosaccharomyces pombe cDNA. <b>1992</b> , 287 ( Pt 1), 195-200		16
478	Cytochrome b-245 is a flavocytochrome containing FAD and the NADPH-binding site of the microbicidal oxidase of phagocytes. <b>1992</b> , 284 ( Pt 3), 781-8		319
477	Yeast flavohemoglobin is an ancient protein related to globins and a reductase family. <b>1992</b> , 89, 5015-9		127
476	Crystal structure of rat liver dihydropteridine reductase. <b>1992</b> , 89, 6080-4		161

475	Functional and evolutionary relationships among diverse oxygenases. <b>1992</b> , 46, 565-601		408
474	The NADH:ubiquinone oxidoreductase (complex I) of respiratory chains. <b>1992</b> , 25, 253-324		659
473	Iron-Sulfur Clusters in Enzymes: Themes and Variations. <b>1992</b> , 281-322		187
472	Cytochrome b558, a component of the phagocyte NADPH oxidase, is a flavoprotein. <i>Biochemical and Biophysical Research Communications</i> , <b>1992</b> , 186, 1368-75	3-4	111
471	Groundworks for an evolutionary biochemistry: the iron-sulphur world. <b>1992</b> , 58, 85-201		475
470	Ferredoxin:NADP oxidoreductase of <i>Cyanophora paradoxa</i> : purification, partial characterization, and N-terminal amino acid sequence. <b>1992</b> , 3, 228-35		6
469	Cytochrome b558: the flavin-binding component of the phagocyte NADPH oxidase. <i>Science</i> , <b>1992</b> , 256, 1459-62	33-3	350
468	Reaction of the nucleotide analogue 2-[(4-bromo-2,3-dioxobutyl)thio]adenosine 2',5'-bisphosphate at the coenzyme site of wild-type and mutant NADP(+)-specific glutamate dehydrogenases from <i>Salmonella typhimurium</i> . <i>Archives of Biochemistry and Biophysics</i> , <b>1992</b> , 292, 179-89	4-1	4
467	Identification of arginyl residues involved in the binding of ferredoxin-NADP+ reductase from <i>Anabaena</i> sp. PCC 7119 to its substrates. <i>Archives of Biochemistry and Biophysics</i> , <b>1992</b> , 299, 281-6	4-1	40
466	Lysine residues on ferredoxin-NADP+ reductase from <i>Anabaena</i> sp. PCC 7119 involved in substrate binding. <b>1992</b> , 298, 25-8		37
465	The haemoglobin-like protein (HMP) of <i>Escherichia coli</i> has ferrisiderophore reductase activity and its C-terminal domain shares homology with ferredoxin NADP+ reductases. <b>1992</b> , 302, 247-52		88
464	Crystallization and preliminary crystallographic studies of the FAD domain of corn NADH: nitrate reductase. <i>Journal of Molecular Biology</i> , <b>1992</b> , 224, 277-9	6-5	9
463	The refined crystal structure of <i>Pseudomonas putida</i> lipoamide dehydrogenase complexed with NAD+ at 2.45 Å resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1992</b> , 13, 336-51	4-2	93
462	cis-diol dehydrogenases encoded by the TOL pWW0 plasmid xylL gene and the <i>Acinetobacter calcoaceticus</i> chromosomal benD gene are members of the short-chain alcohol dehydrogenase superfamily. <b>1992</b> , 204, 113-20		70
461	Purification and characterisation of the NADH:acceptor reductase component of xylene monooxygenase encoded by the TOL plasmid pWW0 of <i>Pseudomonas putida</i> mt-2. <b>1992</b> , 209, 51-61		47
460	Effects of chemical modification of <i>Anabaena</i> flavodoxin and ferredoxin-NADP+ reductase on the kinetics of interprotein electron transfer reactions. <b>1992</b> , 210, 577-83		13
459	Selective chemical modification of amino acid residues in the flavin adenine dinucleotide binding site of NADPH-ferredoxin reductase. <b>1992</b> , 24, 223-8		3
458	Use of laser flash photolysis time-resolved spectrophotometry to investigate interprotein and intraprotein electron transfer mechanisms. <b>1993</b> , 48, 259-79		52

457	Dynamics of the history of photosynthesis research. <i>Photosynthesis Research</i> , <b>1993</b> , 38, 185-209	3.7	32
456	Nitrate reductase of <i>Neurospora crassa</i> : the functional role of individual amino acids in the heme domain as examined by site-directed mutagenesis. <b>1993</b> , 240, 221-30		11
455	Evidence from directed mutagenesis that positively charged amino acids are necessary for interaction of nitrogenase with the [2Fe-2S] heterocyst ferredoxin (FdxH) from the cyanobacterium <i>Anabaena</i> sp., PCC7120. <b>1993</b> , 240, 455-60		23
454	Characterization of the promoter from the single-copy gene encoding ferredoxin-NADP(+)-oxidoreductase from spinach. <b>1993</b> , 237, 261-72		34
453	Sequence analysis of pre-ferredoxin-NADP(+)-reductase cDNA from <i>Cyanophora paradoxa</i> specifying a precursor for a nucleus-encoded cyanelle polypeptide. <b>1993</b> , 21, 1023-33		28
452	Homology of the N-terminal domain of the petH gene product from <i>Anabaena</i> sp. PCC 7119 to the CpcD phycobilisome linker polypeptide. <b>1993</b> , 22, 725-9		24
451	A structural model for the nucleotide binding domains of the flavocytochrome b-245 beta-chain. <b>1993</b> , 2, 1675-85		114
450	Structural prototypes for an extended family of flavoprotein reductases: comparison of phthalate dioxygenase reductase with ferredoxin reductase and ferredoxin. <b>1993</b> , 2, 2112-33		164
449	Classification of doubly wound nucleotide binding topologies using automated loop searches. <b>1993</b> , 2, 2146-53		34
448	Ferredoxin binding site on ferredoxin: NADP+ reductase. Differential chemical modification of free and ferredoxin-bound enzyme. <b>1993</b> , 216, 57-66		31
447	Nucleotide cofactor-binding-domain-specific antibodies show immunologic relatedness among unrelated proteins that bind phosphoryl compounds. <b>1993</b> , 1162, 315-22		2
446	Role of Lys-110 of human NADH-cytochrome b5 reductase in NADH binding as probed by site-directed mutagenesis. <b>1993</b> , 322, 30-2		3
445	NADH-cytochrome b5 reductase and cytochrome b5 isoforms as models for the study of post-translational targeting to the endoplasmic reticulum. <b>1993</b> , 325, 70-5		45
444	The role of lysine and arginine residues at the ferredoxin-binding site of spinach glutamate synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1993</b> , 1144, 85-91	4.6	15
443	The effect of lysine- and arginine-modifying reagents on spinach ferredoxin: nitrite oxidoreductase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1993</b> , 1140, 304-312	4.6	28
442	The cDNA and deduced protein sequence of house fly NADPH-cytochrome P450 reductase. <b>1993</b> , 23, 439-47		39
441	Amino acid residues in <i>Anabaena</i> ferredoxin crucial to interaction with ferredoxin-NADP+ reductase: site-directed mutagenesis and laser flash photolysis. <i>Biochemistry</i> , <b>1993</b> , 32, 9346-54	3.2	105
440	Enzyme-substrate binding interactions of NADPH-cytochrome P-450 oxidoreductase characterized with pH and alternate substrate/inhibitor studies. <i>Biochemistry</i> , <b>1993</b> , 32, 11539-47	3.2	30

439	The role of cysteine residues of spinach ferredoxin-NADP <sup>+</sup> reductase As assessed by site-directed mutagenesis. <i>Biochemistry</i> , <b>1993</b> , 32, 6374-80	3.2	64
438	The respiratory burst oxidase and the molecular genetics of chronic granulomatous disease. <b>1993</b> , 30, 329-69		102
437	The biochemical basis of the NADPH oxidase of phagocytes. <b>1993</b> , 18, 43-7		540
436	The Greek key motif: extraction, classification and analysis. <b>1993</b> , 6, 233-45		64
435	A study into the effects of protein binding on nucleotide conformation. <b>1993</b> , 21, 1369-80		67
434	Escherichia coli ferredoxin NADP <sup>+</sup> reductase: activation of E. coli anaerobic ribonucleotide reduction, cloning of the gene (fpr), and overexpression of the protein. <b>1993</b> , 175, 1590-5		108
433	The fission yeast ferric reductase gene frp1+ is required for ferric iron uptake and encodes a protein that is homologous to the gp91-phox subunit of the human NADPH phagocyte oxidoreductase. <i>Molecular and Cellular Biology</i> , <b>1993</b> , 13, 4342-50	4.8	120
432	Two divergent MET10 genes, one from Saccharomyces cerevisiae and one from Saccharomyces carlsbergensis, encode the alpha subunit of sulfite reductase and specify potential binding sites for FAD and NADPH. <b>1994</b> , 176, 6050-8		56
431	Identification of the genes encoding NAD(P)H-flavin oxidoreductases that are similar in sequence to Escherichia coli Fre in four species of luminous bacteria: Photobacterium luminescens, Vibrio fischeri, Vibrio harveyi, and Vibrio orientalis. <b>1994</b> , 176, 3544-51		62
430	Characterization of the genome region encoding an fdxH-type ferredoxin and a new 2[4Fe-4S] ferredoxin from the nonheterocystous, nitrogen-fixing cyanobacterium Plectonema boryanum PCC 73110. <b>1994</b> , 176, 1037-46		30
429	Crystal structure of a prokaryotic aspartyl tRNA-synthetase.. <b>1994</b> , 13, 3219-3229		68
428	Mechanisms for the activation/electron transfer of neutrophil NADPH-oxidase complex and molecular pathology of chronic granulomatous disease. <b>1994</b> , 68, 267-77		12
427	Identification of a maize root transcript expressed in the primary response to nitrate: characterization of a cDNA with homology to ferredoxin-NADP <sup>+</sup> oxidoreductase. <b>1994</b> , 26, 679-90		49
426	Electrostatic complementarity between proteins and ligands. 1. Charge disposition, dielectric and interface effects. <b>1994</b> , 8, 513-25		25
425	Electrostatic complementarity between proteins and ligands. 2. Ligand moieties. <b>1994</b> , 8, 527-44		16
424	Electrostatic complementarity between proteins and ligands. 3. Structural basis. <b>1994</b> , 8, 545-64		15
423	A "parallel plate" electrostatic model for bimolecular rate constants applied to electron transfer proteins. <b>1994</b> , 3, 2104-14		74
422	Structure-function studies of [2Fe-2S] ferredoxins. <b>1994</b> , 26, 67-88		93

421	Structure-function relations for ferredoxin reductase. <b>1994</b> , 26, 89-99		104
420	Molecular analysis of pentachlorophenol degradation. <b>1994</b> , 5, 277-88		59
419	Oxygen reactions with bacterial oxidases and globins: binding, reduction and regulation. <b>1994</b> , 65, 289-310		77
418	Cytochrome b558: A flavocytochrome comprising the complete electron-transporting apparatus of phagocyte NADPH oxidase. <b>1994</b> , 12, 97-102		
417	Purification and characterization of ferredoxin-NADP <sup>+</sup> reductase from the green alga <i>Chlorella fusca</i> . <i>Physiologia Plantarum</i> , <b>1994</b> , 91, 645-650	4.6	8
416	Crystal structure of the FAD-containing fragment of corn nitrate reductase at 2.5 Å resolution: relationship to other flavoprotein reductases. <b>1994</b> , 2, 809-21		87
415	Old yellow enzyme at 2 Å resolution: overall structure, ligand binding, and comparison with related flavoproteins. <b>1994</b> , 2, 1089-1105		214
414	Unique primary structure of 2-nitropropane dioxygenase from <i>Hansenula mrakii</i> . <b>1994</b> , 226, 841-6		10
413	Site-directed mutagenesis of cysteine residues in biliverdin reductase. Roles in substrate and cofactor binding. <b>1994</b> , 222, 597-603		13
412	Genuine and apparent cross-reaction of polyclonal antibodies to proteins and peptides. <b>1994</b> , 219, 73-81		18
411	Isolation and complete sequence of CBR, a gene encoding a putative cytochrome b reductase in <i>Saccharomyces cerevisiae</i> . <b>1994</b> , 219, 441-8		16
410	Molecular characterization of microbial alcohol dehydrogenases. <b>1994</b> , 20, 13-56		330
409	Comparison of the binding sites of plant ferredoxin for two ferredoxin-dependent enzymes. <b>1994</b> , 337, 217-20		38
408	Involvement of lysine-88 of spinach ferredoxin-NADP <sup>+</sup> reductase in the interaction with ferredoxin. <b>1994</b> , 343, 247-50		48
407	Principles determining the structure of beta-sheet barrels in proteins. II. The observed structures. <i>Journal of Molecular Biology</i> , <b>1994</b> , 236, 1382-400	6.5	120
406	Activation factors of neutrophil NADPH oxidase complex. <b>1994</b> , 55, 1-13		20
405	Chronic granulomatous disease. <b>1994</b> , 1227, 1-24		176
404	Reaction of phthalate dioxygenase reductase with NADH and NAD: kinetic and spectral characterization of intermediates. <i>Biochemistry</i> , <b>1994</b> , 33, 12184-93	3.2	50

403	Dissection of NADPH-cytochrome P450 oxidoreductase into distinct functional domains. <b>1994</b> , 91, 8710-4		133
402	Two distinctly regulated genes are required for ferric reduction, the first step of iron uptake in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , <b>1994</b> , 14, 3065-73	4.8	208
401	Molecular and biochemical characterization of dNOS: a <i>Drosophila</i> Ca <sup>2+</sup> /calmodulin-dependent nitric oxide synthase. <b>1995</b> , 92, 9072-6		217
400	Molecular characterization of the gene cluster <i>coxMSL</i> encoding the molybdenum-containing carbon monoxide dehydrogenase of <i>Oligotropha carboxidovorans</i> . <b>1995</b> , 177, 2197-203		71
399	Kinemages: make your own molecules for teaching. <b>1995</b> , 20, 122-4		3
398	NADPH oxidase and the respiratory burst. <b>1995</b> , 6, 357-65		85
397	Electron spin resonance and electron nuclear double resonance studies of flavoproteins involved in the photosynthetic electron transport in the cyanobacterium <i>Anabaena</i> sp. PCC 7119. <b>1995</b> , 227, 529-36		20
396	Existence of two ferredoxin-glutamate synthases in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. Isolation and insertional inactivation of <i>gltB</i> and <i>gltS</i> genes. <b>1995</b> , 27, 753-67		34
395	Mature ferredoxin-NADP reductase with a glutamyl residue at N-terminus from spinach chloroplasts. <i>Photosynthesis Research</i> , <b>1995</b> , 46, 323-8	3.7	4
394	Isolation, sequence and expression in <i>Escherichia coli</i> of the nitrite reductase gene from the filamentous, thermophilic cyanobacterium <i>Phormidium laminosum</i> . <b>1995</b> , 27, 1037-42		4
393	Functional analysis by site-directed mutagenesis of individual amino acid residues in the flavin domain of <i>Neurospora crassa</i> nitrate reductase. <b>1995</b> , 249, 456-64		8
392	Crystallization and preliminary X-ray diffraction studies of a bacterial flavohemoglobin protein. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1995</b> , 21, 351-3	4.2	13
391	Three-dimensional model of the alpha-subunit of bacterial luciferase. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1995</b> , 23, 241-55	4.2	3
390	An enzyme-substrate complex involved in bacterial cell wall biosynthesis. <b>1995</b> , 2, 644-53		67
389	The 36 kDa form of ferredoxin-NADP <sup>+</sup> reductase from <i>Anabaena</i> co-purifies with phycobiliproteins. <b>1995</b> , 38, 57-61		3
388	Structural and functional characterization of bovine adrenodoxin reductase by limited proteolysis. <b>1995</b> , 1246, 39-46		6
387	The NADPH oxidase of phagocytic cells is an electron pump that alkalinises the phagocytic vacuole. <b>1995</b> , 184, 86-103		19
386	Tertiary structure of [2Fe-2S] ferredoxin from <i>Spirulina platensis</i> refined at 2.5 Å resolution: structural comparisons of plant-type ferredoxins and an electrostatic potential analysis. <b>1995</b> , 117, 1017-23		55

385	Stereospecificity of hydride removal from NADH by reductases of multicomponent nonheme iron oxygenase systems. <b>1995</b> , 177, 831-4		6
384	An enzyme in yeast mitochondria that catalyzes a step in branched-chain amino acid biosynthesis also functions in mitochondrial DNA stability.. <b>1995</b> , 14, 3268-3276		88
383	Interruption of the ferredoxin (flavodoxin) NADP+ oxidoreductase gene of Escherichia coli does not affect anaerobic growth but increases sensitivity to paraquat. <b>1995</b> , 177, 4528-31		46
382	Structure and mechanism of the iron-sulfur flavoprotein phthalate dioxygenase reductase. <b>1995</b> , 9, 1411-8		63
381	Crystal structure of the flavohemoglobin from Alcaligenes eutrophus at 1.75 A resolution.. <b>1995</b> , 14, 6067-6077		147
380	The choice of reducing substrate is altered by replacement of an alanine by a proline in the FAD domain of a bispecific NAD(P)H-nitrate reductase from birch. <b>1995</b> , 108, 203-10		15
379	Cloning and characterization of the NADPH cytochrome P450 oxidoreductase gene from the filamentous fungus Aspergillus niger. <b>1995</b> , 14, 719-29		29
378	Reconstitution of flavin-depleted neutrophil flavocytochrome b558 with 8-mercapto-FAD and characterization of the flavin-reconstituted enzyme. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 16428-34 <sup>5.4</sup>		31
377	Flavo-haemoglobin HmpX: a new pathogenicity determinant in Erwinia chrysanthemi strain 3937. <b>1995</b> , 141 ( Pt 4), 863-71		70
376	The precursor of pea ferredoxin-NADP+ reductase synthesized in Escherichia coli contains bound FAD and is transported into chloroplasts. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 19930-5	5.4	13
375	Characterization of NADH-dependent Fe3+-chelate reductases of maize roots. <b>1995</b> , 46, 1497-1503		26
374	Diversity and evolution of plant P450 and P450-reductases. <b>1995</b> , 12, 189-206		104
373	Different NADH-Dependent Enzymes are Responsible for Ferricyanide and Ferric-Chelate Reduction in Maize Roots. <b>1995</b> , 129, 1041-1042		
372	Structural domains of P450-containing monooxygenase systems. <b>1995</b> , 8, 737-47		53
371	Crystallization and preliminary x-ray studies of NADPH-cytochrome P450 reductase. <b>1995</b> , 92, 3214-8		32
370	Spectroscopic and kinetic characterization of the recombinant wild-type and C242S mutant of the cytochrome b reductase fragment of nitrate reductase. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 24067-72 <sup>5.4</sup>		13
369	Mutagenesis at a highly conserved tyrosine in monoamine oxidase B affects FAD incorporation and catalytic activity. <i>Biochemistry</i> , <b>1995</b> , 34, 9526-31	3.2	23
368	Mechanistic studies on CDP-6-deoxy-delta 3,4-glucoseen reductase: the role of cysteine residues in catalysis as probed by chemical modification and site-directed mutagenesis. <i>Biochemistry</i> , <b>1995</b> , 34, 4159-68 <sup>3.2</sup>		35



367	NAD-binding domains of dehydrogenases. <b>1995</b> , 5, 775-83		202
366	The unique structures of protozoan myoglobin and yeast hemoglobin: an evolutionary diversity. <b>1995</b> , 27, 1107-15		9
365	Structure-function relationships in the ferredoxin/ferredoxin: NADP <sup>+</sup> reductase system from <i>Anabaena</i> . <b>1995</b> , 77, 539-48		20
364	Involvement of serine 96 in the catalytic mechanism of ferredoxin-NADP <sup>+</sup> reductase: structure-function relationship as studied by site-directed mutagenesis and X-ray crystallography. <i>Biochemistry</i> , <b>1995</b> , 34, 8371-9	3.2	67
363	The effect of N-bromosuccinimide on ferredoxin:NADP <sup>+</sup> oxidoreductase. <i>Archives of Biochemistry and Biophysics</i> , <b>1995</b> , 320, 280-8	4.1	3
362	Amino acid residues involved in functional interaction of vegetative cell ferredoxin from the cyanobacterium <i>Anabaena</i> sp. PCC 7120 with ferredoxin:NADP reductase, nitrite reductase and nitrate reductase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1995</b> , 1231, 335-341	4.6	20
361	Refined crystal structure of spinach ferredoxin reductase at 1.7 Å resolution: oxidized, reduced and 2'-phospho-5'-AMP bound states. <i>Journal of Molecular Biology</i> , <b>1995</b> , 247, 125-45	6.5	177
360	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> , <b>1995</b> , 248, 931-48	6.5	88
359	Specific arrangement of three amino acid residues for flavin-binding barrel structures in NADH-cytochrome b <sub>5</sub> reductase and the other flavin-dependent reductases. <b>1995</b> , 361, 97-100		19
358	Predicted structure and possible ionmotive mechanism of the sodium-linked NADH-ubiquinone oxidoreductase of <i>Vibrio alginolyticus</i> . <b>1995</b> , 375, 5-10		64
357	The mechanism and substrate specificity of the NADPH:flavin oxidoreductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 30392-400	5.4	97
356	Three-dimensional structure of meso-diaminopimelic acid dehydrogenase from <i>Corynebacterium glutamicum</i> . <i>Biochemistry</i> , <b>1996</b> , 35, 13540-51	3.2	49
355	Role of Ser457 of NADPH-cytochrome P450 oxidoreductase in catalysis and control of FAD oxidation-reduction potential. <i>Biochemistry</i> , <b>1996</b> , 35, 9451-9	3.2	27
354	The flavoprotein domain of P450BM-3: expression, purification, and properties of the flavin adenine dinucleotide- and flavin mononucleotide-binding subdomains. <i>Biochemistry</i> , <b>1996</b> , 35, 7528-35	3.2	56
353	Studies of the redox properties of CDP-6-deoxy-L-threo-D-glycero-4-hexulose-3-dehydrase (E1) and CDP-6-deoxy-L-threo-D-glycero-4-hexulose-3-dehydrase reductase (E3): two important enzymes involved in the biosynthesis of ascorbylose. <i>Biochemistry</i> , <b>1996</b> , 35, 7879-89	3.2	25
352	The Mononuclear Molybdenum Enzymes. <b>1996</b> , 96, 2757-2816		1404
351	X-ray structure of the ferredoxin:NADP <sup>+</sup> reductase from the cyanobacterium <i>Anabaena</i> PCC 7119 at 1.8 Å resolution, and crystallographic studies of NADP <sup>+</sup> binding at 2.25 Å resolution. <i>Journal of Molecular Biology</i> , <b>1996</b> , 263, 20-39	6.5	139
350	Protein recognition of adenylate: an example of a fuzzy recognition template. <i>Journal of Molecular Biology</i> , <b>1996</b> , 263, 486-500	6.5	111

349	Crystallization and preliminary X-ray diffraction studies of human cytochrome P450 reductase. <b>1996</b> , 116, 320-5		7
348	Domain-domain interaction in cytochrome P450BM-3. <b>1996</b> , 78, 744-51		13
347	Equilibrium and transient state spectrophotometric studies of the mechanism of reduction of the flavoprotein domain of P450BM-3. <i>Biochemistry</i> , <b>1996</b> , 35, 7058-68	3.2	59
346	Flavin reductase P: structure of a dimeric enzyme that reduces flavin. <i>Biochemistry</i> , <b>1996</b> , 35, 13531-9	3.2	86
345	Is the NAD(P)H:flavin oxidoreductase from <i>Escherichia coli</i> a member of the ferredoxin-NADP+ reductase family?. Evidence for the catalytic role of serine 49 residue. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 16656-61	5.4	30
344	Electron Transfer Proteins of Cytochrome P450 Systems. <b>1996</b> , 14, 29-56		33
343	Identification and amino acid sequences of tryptic peptides of a novel ferredoxin-NADP+ oxidoreductase from rice. <b>1996</b> , 37, 1183-7		2
342	Molecular recognition in protein complexes involved in electron transfer. <b>1996</b> , 24, 111-6		6
341	Kinetic characterization of <i>Anabaena</i> ferredoxin-NADP+ reductase mutants. <b>1996</b> , 24, 33S		1
340	Three abundant germ line-specific transcripts in <i>Volvox carteri</i> encode photosynthetic proteins. <b>1996</b> , 30, 347-55		21
339	Analysis of the oxidation-reduction potentials of recombinant ferredoxin-NADP+ reductase from spinach chloroplasts. <b>1996</b> , 239, 662-7		32
338	Overexpression in <i>E. coli</i> of the complete <i>pethH</i> gene product from <i>Anabaena</i> : purification and properties of a 49 kDa ferredoxin-NADP+ reductase. <b>1996</b> , 1297, 200-6		13
337	Interactions between the components of the human NADPH oxidase: intrigues in the phox family. <b>1996</b> , 128, 461-76		98
336	Electrostatic properties deduced from refined structures of NADH-cytochrome b5 reductase and the other flavin-dependent reductases: pyridine nucleotide-binding and interaction with an electron-transfer partner. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1996</b> , 26, 32-41	4.2	23
335	Recent studies on xanthine oxidase and related enzymes. <b>1996</b> , 24, 99-105		27
334	Cloning by metabolic interference in yeast and enzymatic characterization of <i>Arabidopsis thaliana</i> sterol delta 7-reductase. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 10866-73	5.4	50
333	Covalent attachment of FAD derivatives to a fusion protein consisting of 6-hydroxy-D-nicotine oxidase and a mitochondrial presequence. Folding, enzyme activity, and import of the modified protein into yeast mitochondria. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 25208-12	5.4	7
332	Molecular cloning and expression of an avian macrophage nitric-oxide synthase cDNA and the analysis of the genomic 5'-flanking region. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 11911-9	5.4	103

331	Studies on the redox centers of the terminal oxidase from <i>Desulfovibrio gigas</i> and evidence for its interaction with rubredoxin. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 22502-8	5-4	116
330	Cloning, yeast expression, and characterization of the coupling of two distantly related <i>Arabidopsis thaliana</i> NADPH-cytochrome P450 reductases with P450 CYP73A5. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 19176-86	5-4	253
329	The domain architecture of cytochrome P450BM-3. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 7915-21	5-4	36
328	Three-dimensional structure of NADPH-cytochrome P450 reductase: prototype for FMN- and FAD-containing enzymes. <b>1997</b> , 94, 8411-6		643
327	Co-oxidation of NADH and NADPH by a mammalian 15-lipoxygenase: inhibition of lipoxygenase activity at near-physiological NADH concentrations. <b>1997</b> , 327 ( Pt 1), 203-8		5
326	Enzymatic activation of DNA cleavage by dynemicin A and synthetic analogs. <i>Biochemistry</i> , <b>1997</b> , 36, 3903-8		10
325	Determination of the structure of alanine racemase from <i>Bacillus stearothermophilus</i> at 1.9-A resolution. <i>Biochemistry</i> , <b>1997</b> , 36, 1329-42	3-2	238
324	A three-domain iron-sulfur flavoprotein obtained through gene fusion of ferredoxin and ferredoxin-NADP <sup>+</sup> reductase from spinach leaves. <i>Biochemistry</i> , <b>1997</b> , 36, 14771-7	3-2	17
323	Structure-function relationships in <i>Anabaena</i> ferredoxin: correlations between X-ray crystal structures, reduction potentials, and rate constants of electron transfer to ferredoxin:NADP <sup>+</sup> reductase for site-specific ferredoxin mutants. <i>Biochemistry</i> , <b>1997</b> , 36, 11100-17	3-2	90
322	One- and two-dimensional ESEEM spectroscopy of flavoproteins. <i>Biochemistry</i> , <b>1997</b> , 36, 15526-37	3-2	32
321	Reductase gene sequences and protein structures: p-cymene methyl hydroxylase. <i>Biochemical and Biophysical Research Communications</i> , <b>1997</b> , 233, 502-6	3-4	8
320	The three-dimensional structure of flavodoxin reductase from <i>Escherichia coli</i> at 1.7 Å resolution. <i>Journal of Molecular Biology</i> , <b>1997</b> , 268, 147-57	6-5	122
319	NADH:Fe(III)-chelate reductase of maize roots is an active cytochrome b5 reductase. <b>1997</b> , 414, 571-5		27
318	The NADH-dependent Fe(3+)-chelate reductases of tomato roots. <b>1997</b> , 202, 427-34		29
317	NADP-dependent enzymes. II: Evolution of the mono- and dinucleotide binding domains. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1997</b> , 28, 29-40	4-2	38
316	Structural trees for protein superfamilies. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1997</b> , 28, 241-60	4-2	65
315	Electronic properties of flavins: Implications on the reactivity and absorption properties of flavoproteins. <b>1997</b> , 64, 721-733		17
314	Analyses by Fourier transform infrared spectroscopies of protein structures of soluble NADH-cytochrome b5 reductases prepared by site-directed mutagenesis: Comparison with ferredoxin-NADP <sup>+</sup> reductase. <b>1997</b> , 3, 215-223		3

313	Probable circular permutation in the flavin-binding domain. <b>1998</b> , 5, 101		19
312	Crystal structure of the phosphatidylethanolamine-binding protein from bovine brain: a novel structural class of phospholipid-binding proteins. <b>1998</b> , 6, 1255-65		90
311	The crystal structure of NADPH:ferredoxin reductase from <i>Azotobacter vinelandii</i> . <b>1998</b> , 7, 2541-9		47
310	The FNR-like domain of the <i>Escherichia coli</i> sulfite reductase flavoprotein component: crystallization and preliminary X-ray analysis. <b>1998</b> , 54, 135-6		3
309	Protein-protein interaction in electron transfer reactions: the ferredoxin/ flavodoxin/ferredoxin:NADP <sup>+</sup> reductase system from <i>Anabaena</i> . <b>1998</b> , 80, 837-46		14
308	Interaction of positively charged amino acid residues of recombinant, cyanobacterial ferredoxin:NADP <sup>+</sup> reductase with ferredoxin probed by site directed mutagenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1998</b> , 1363, 85-93	4.6	13
307	Involvement of glutamic acid 301 in the catalytic mechanism of ferredoxin-NADP <sup>+</sup> reductase from <i>Anabaena</i> PCC 7119. <i>Biochemistry</i> , <b>1998</b> , 37, 2715-28	3.2	92
306	Lys75 of <i>Anabaena</i> ferredoxin-NADP <sup>+</sup> reductase is a critical residue for binding ferredoxin and flavodoxin during electron transfer. <i>Biochemistry</i> , <b>1998</b> , 37, 13604-13	3.2	40
305	Reaction of the NAD(P)H:flavin oxidoreductase from <i>Escherichia coli</i> with NADPH and riboflavin: identification of intermediates. <i>Biochemistry</i> , <b>1998</b> , 37, 11879-87	3.2	26
304	Arginine-42 and threonine-45 are required for FAD incorporation and catalytic activity in human monoamine oxidase B. <i>Biochemistry</i> , <b>1998</b> , 37, 12360-6	3.2	14
303	Role of Arg100 and Arg264 from <i>Anabaena</i> PCC 7119 ferredoxin-NADP <sup>+</sup> reductase for optimal NADP <sup>+</sup> binding and electron transfer. <i>Biochemistry</i> , <b>1998</b> , 37, 17680-91	3.2	44
302	Identification of the basic residues of cytochrome f responsible for electrostatic docking interactions with plastocyanin in vitro: relevance to the electron transfer reaction in vivo. <i>Biochemistry</i> , <b>1998</b> , 37, 15120-8	3.2	60
301	Engineering of pyridine nucleotide specificity of nitrate reductase: mutagenesis of recombinant cytochrome b reductase fragment of <i>Neurospora crassa</i> NADPH:Nitrate reductase. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 358, 104-15	4.1	22
300	Release of two peripheral proteins from chloroplast thylakoid membranes in the presence of a Hofmeister series of chaotropic anions. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 358, 385-90	4.1	17
299	Flavin fluorescence dynamics and photoinduced electron transfer in <i>Escherichia coli</i> glutathione reductase. <b>1998</b> , 74, 2046-58		66
298	Characterization of recombinant adrenodoxin reductase homologue (Arh1p) from yeast. Implication in in vitro cytochrome p45011beta monooxygenase system. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 23984-92	5.4	40
297	Probing the function of the invariant glutamyl residue 312 in spinach ferredoxin-NADP <sup>+</sup> reductase. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 34008-15	5.4	48
296	Electron donation to the flavoprotein NifL, a redox-sensing transcriptional regulator. <b>1998</b> , 332 ( Pt 2), 413-9		64

295	Adult cortical dynamics. <i>Physiological Reviews</i> , <b>1998</b> , 78, 467-85	47.9	389
294	Probing the role of the carboxyl terminus of the gp91phox subunit of neutrophil flavocytochrome b558 using site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 6575-81	5.4	30
293	Soluble methane monooxygenase gene clusters from trichloroethylene-degrading <i>Methylomonas</i> sp. strains and detection of methanotrophs during in situ bioremediation. <i>Applied and Environmental Microbiology</i> , <b>1999</b> , 65, 5198-206	4.8	75
292	Components and organization of the nadph oxidase of phagocytic cells. <b>1999</b> , 5, 441-483		5
291	Comparison of the electrostatic binding sites on the surface of ferredoxin for two ferredoxin-dependent enzymes, ferredoxin-NADP(+) reductase and sulfite reductase. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 29399-405	5.4	73
290	Complex formation between <i>Azotobacter vinelandii</i> ferredoxin I and its physiological electron donor NADPH-ferredoxin reductase. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 2978-87	5.4	21
289	Chimeric forms of neuronal nitric oxide synthase identify different regions of the reductase domain that are essential for dimerization and activity. <b>1999</b> , 18, 397-407		8
288	The flavin environment in old yellow enzyme. An evaluation of insights from spectroscopic and artificial flavin studies. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 9357-62	5.4	22
287	A productive NADP+ binding mode of ferredoxin-NADP + reductase revealed by protein engineering and crystallographic studies. <b>1999</b> , 6, 847-53		158
286	Dynamics of Flavin in Flavocytochrome b2: A Fluorescence Study. <b>1999</b> , 69, 22-26		9
285	Electrostatic forces involved in orienting <i>Anabaena</i> ferredoxin during binding to <i>Anabaena</i> ferredoxin:NADP+ reductase: site-specific mutagenesis, transient kinetic measurements, and electrostatic surface potentials. <b>1999</b> , 8, 1614-22		51
284	NITRATE REDUCTASE STRUCTURE, FUNCTION AND REGULATION: Bridging the Gap between Biochemistry and Physiology. <b>1999</b> , 50, 277-303		501
283	Systematic mutations of highly conserved His49 and carboxyl-terminal of recombinant porcine liver NADH-cytochrome b5 reductase solubilized domain. <b>1999</b> , 1430, 290-301		10
282	Engineering and biochemical characterization of the rat microsomal cytochrome P4501A1 fused to ferredoxin and ferredoxin-NADP(+) reductase from plant chloroplasts. <b>1999</b> , 1433, 87-102		27
281	Uncommon missense and splice mutations and resulting biochemical phenotypes in German patients with X-linked chronic granulomatous disease. <b>1999</b> , 27, 505-11		42
280	Phospholipid bound to the flavohemoprotein from <i>Alcaligenes eutrophus</i> . <b>1999</b> , 262, 396-405		43
279	Molecular cloning and expression of nitric oxide synthase gene in chick embryonic muscle cells. <b>1999</b> , 17, 261-70		2
278	Dihydroorotate dehydrogenase B of <i>Enterococcus faecalis</i> . Characterization and insights into chemical mechanism. <i>Biochemistry</i> , <b>1999</b> , 38, 13129-37	3.2	25

277	Mechanistic studies on the reductive half-reaction of NADPH-cytochrome P450 oxidoreductase. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 5391-8	5.4	48
276	Molybdoenzymes and Molybdenum Cofactor in Plants. <b>1999</b> , 18, 33-69		73
275	Growth phase-dependent subcellular localization of nitric oxide synthase in maize cells. <b>1999</b> , 445, 283-6		165
274	Crystal structure of NAD(P)H:flavin oxidoreductase from <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>1999</b> , 38, 7040-9	3.2	76
273	The structure of adrenodoxin reductase of mitochondrial P450 systems: electron transfer for steroid biosynthesis. <i>Journal of Molecular Biology</i> , <b>1999</b> , 289, 981-90	6.5	115
272	Characterization of a novel NADH-specific, FAD-containing, soluble reductase with ferric citrate reductase activity from maize seedlings. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 363, 301-8	4.1	13
271	Probing the NADPH-binding site of <i>Escherichia coli</i> flavodoxin oxidoreductase. <b>2000</b> , 352, 257		6
270	Structural basis of the catalytic role of Glu301 in <i>Anabaena</i> PCC 7119 ferredoxin-NADP <sup>+</sup> reductase revealed by x-ray crystallography. <b>2000</b> , 38, 60-69		16
269	Sequencing and analysis of the <i>Methylococcus capsulatus</i> (Bath) soluble methane monooxygenase genes. <b>2000</b> , 267, 2174-85		44
268	Structure of dihydroorotate dehydrogenase B: electron transfer between two flavin groups bridged by an iron-sulphur cluster. <b>2000</b> , 8, 1227-38		59
267	A redox-dependent interaction between two electron-transfer partners involved in photosynthesis. <b>2000</b> , 1, 271-6		106
266	Competition between C-terminal tyrosine and nicotinamide modulates pyridine nucleotide affinity and specificity in plant ferredoxin-NADP(+) reductase. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 10472-6	5.4	74
265	Differential contributions of NADPH-cytochrome P450 oxidoreductase FAD binding site residues to flavin binding and catalysis. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 41087-91	5.4	33
264	Cloning and characterization of a novel human dual flavin reductase. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 1471-8	5.4	71
263	Structure-function analysis of NADPH:nitrate reductase from <i>Aspergillus nidulans</i> : analysis of altered pyridine nucleotide specificity in vivo. <b>2000</b> , 146 ( Pt 6), 1399-1406		10
262	Expression of <i>Alcaligenes eutrophus</i> flavohemoprotein and engineered <i>Vitreoscilla</i> hemoglobin-reductase fusion protein for improved hypoxic growth of <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 98-104	4.8	40
261	Molecular characterization of monoamine oxidases A and B. <b>2001</b> , 65, 129-56		77
260	Differential interaction of maize root ferredoxin:NADP(+) oxidoreductase with photosynthetic and non-photosynthetic ferredoxin isoproteins. <b>2000</b> , 123, 1037-45		127



259	Four crystal structures of the 60 kDa flavoprotein monomer of the sulfite reductase indicate a disordered flavodoxin-like module. <i>Journal of Molecular Biology</i> , <b>2000</b> , 299, 199-212	6.5	77
258	Crystal structure of NADH-dependent ferredoxin reductase component in biphenyl dioxygenase. <i>Journal of Molecular Biology</i> , <b>2000</b> , 304, 397-410	6.5	83
257	Interactions between redox partners in various cytochrome P450 systems: functional and structural aspects. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2000</b> , 1460, 353-74	4.6	66
256	Attachment of the N-terminal domain of Salmonella typhimurium AhpF to Escherichia coli thioredoxin reductase confers AhpC reductase activity but does not affect thioredoxin reductase activity. <i>Biochemistry</i> , <b>2000</b> , 39, 8859-69	3.2	31
255	Trp-676 facilitates nicotinamide coenzyme exchange in the reductive half-reaction of human cytochrome P450 reductase: properties of the soluble W676H and W676A mutant reductases. <i>Biochemistry</i> , <b>2000</b> , 39, 15990-9	3.2	53
254	Crystal structures of adrenodoxin reductase in complex with NADP+ and NADPH suggesting a mechanism for the electron transfer of an enzyme family. <i>Biochemistry</i> , <b>2000</b> , 39, 10986-95	3.2	57
253	Interaction of NADP(H) with oxidized and reduced P450 reductase during catalysis. Studies with nucleotide analogues. <i>Biochemistry</i> , <b>2000</b> , 39, 5066-74	3.2	39
252	Interaction of flavodoxin with cobalamin-dependent methionine synthase. <i>Biochemistry</i> , <b>2000</b> , 39, 10711-9	3.2	44
251	NADPH-cytochrome P450 oxidoreductase. Structural basis for hydride and electron transfer. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 29163-70	5.4	174
250	Stopped-flow kinetic studies of flavin reduction in human cytochrome P450 reductase and its component domains. <i>Biochemistry</i> , <b>2001</b> , 40, 1964-75	3.2	75
249	Arginine 91 is not essential for flavin incorporation in hepatic cytochrome b(5) reductase. <i>Archives of Biochemistry and Biophysics</i> , <b>2001</b> , 389, 223-33	4.1	24
248	Assimilatory nitrate reductase: lysine 741 participates in pyridine nucleotide binding via charge complementarity. <i>Archives of Biochemistry and Biophysics</i> , <b>2001</b> , 394, 99-110	4.1	7
247	Biochemical and crystallographic characterization of ferredoxin-NADP(+) reductase from nonphotosynthetic tissues. <i>Biochemistry</i> , <b>2001</b> , 40, 14501-8	3.2	50
246	Crystal structure of the FAD/NADPH-binding domain of rat neuronal nitric-oxide synthase. Comparisons with NADPH-cytochrome P450 oxidoreductase. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 37506-13	5.4	100
245	The structure and biochemistry of NADH-dependent cytochrome b5 reductase are now consistent. <i>Biochemistry</i> , <b>2001</b> , 40, 13574-82	3.2	66
244	Reaction of neuronal nitric-oxide synthase with 2,6-dichloroindolphenol and cytochrome c3+: influence of the electron acceptor and binding of Ca2+-activated calmodulin on the kinetic mechanism. <i>Biochemistry</i> , <b>2001</b> , 40, 4722-37	3.2	15
243	Seven new mutations in the nicotinamide adenine dinucleotide reduced-cytochrome b(5) reductase gene leading to methemoglobinemia type I. <b>2001</b> , 97, 1106-14		41
242	Charge Transfer Properties of Photosynthetic and Respiratory ProteinsBis work was partially written at the Freie Universit�t Berlin, Department of Biology, Chemistry, and Pharmacy, Institute of Chemistry, Takustr. 6,14195 Berlin (Germany) and The Scripps Research Institute, Department of Molecular Biology, 10550 N. Torrey Pines Rd., TPC-15, La Jolla, CA 92037 USA. <b>2001</b> , 525-584		1

241	Retention mechanism of hypoxia selective nuclear imaging/radiotherapeutic agent cu-diacetyl-bis(N4-methylthiosemicarbazone) (Cu-ATSM) in tumor cells. <b>2001</b> , 15, 499-504		114
240	Sequence-structure analysis of FAD-containing proteins. <b>2001</b> , 10, 1712-28		355
239	Expression, purification and characterization of cytochrome P450 Biol: a novel P450 involved in biotin synthesis in <i>Bacillus subtilis</i> . <b>2001</b> , 6, 523-33		43
238	Structure of the electron transfer complex between ferredoxin and ferredoxin-NADP(+) reductase. <b>2001</b> , 8, 117-21		256
237	It takes two to tango. <b>2001</b> , 8, 94-5		16
236	Novel hemoglobins to enhance microaerobic growth and substrate utilization in <i>Escherichia coli</i> . <b>2001</b> , 17, 798-808		30
235	Crystal structures of a novel ferric reductase from the hyperthermophilic archaeon <i>Archaeoglobus fulgidus</i> and its complex with NADP+. <b>2001</b> , 9, 311-9		60
234	Mapping the interactions between flavodoxin and its physiological partners flavodoxin reductase and cobalamin-dependent methionine synthase. <b>2001</b> , 98, 9521-6		84
233	Engineering of a functional human NADH-dependent cytochrome P450 system. <b>2001</b> , 98, 81-6		81
232	Dissection of central carbon metabolism of hemoglobin-expressing <i>Escherichia coli</i> by <sup>13</sup> C nuclear magnetic resonance flux distribution analysis in microaerobic bioprocesses. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 680-7	4.8	33
231	Involvement of the flavin si-face tyrosine on the structure and function of ferredoxin-NADP+ reductases. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 44419-26	5.4	13
230	Probing the determinants of coenzyme specificity in ferredoxin-NADP+ reductase by site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 11902-12	5.4	49
229	Crystal structure of paprika ferredoxin-NADP+ reductase. Implications for the electron transfer pathway. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 9253-63	5.4	30
228	FAD is a preferred substrate and an inhibitor of <i>Escherichia coli</i> general NAD(P)H:flavin oxidoreductase. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 39450-5	5.4	23
227	Modification of the nucleotide cofactor-binding site of cytochrome P-450 reductase to enhance turnover with NADH in Vivo. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 48960-4	5.4	38
226	Ferredoxin-NADP+ reductase and ferredoxin of the protozoan parasite <i>Toxoplasma gondii</i> interact productively in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 48463-71	5.4	38
225	Yeast flavohemoglobin from <i>Candida norvegensis</i> . Its structural, spectral, and stability properties. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 42540-8	5.4	18
224	Neuronal nitric oxide synthase: substrate and solvent kinetic isotope effects on the steady-state kinetic parameters for the reduction of 2,6-dichloroindophenol and cytochrome c(3+). <i>Biochemistry</i> , <b>2002</b> , 41, 196-204	3.2	8



223	Effects of Ca(2+)-activated calmodulin on neuronal nitric oxide synthase reductase activity and binding of substrates: pH dependence of kinetic parameters. <i>Biochemistry</i> , <b>2002</b> , 41, 205-14	3.2	2
222	Expression and characterization of ferredoxin and flavin adenine dinucleotide binding domains of the reductase component of soluble methane monooxygenase from <i>Methylococcus capsulatus</i> (Bath). <i>Biochemistry</i> , <b>2002</b> , 41, 15780-94	3.2	32
221	Electron Transfer Pathways and Components. 124-156		3
220	Electron supply and catalytic oxidation of nitrogen by cytochrome P450 and nitric oxide synthase. <b>2002</b> , 34, 479-501		14
219	Structure-function relationships in <i>Anabaena</i> ferredoxin/ferredoxin:NADP(+) reductase electron transfer: insights from site-directed mutagenesis, transient absorption spectroscopy and X-ray crystallography. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2002</b> , 1554, 5-21	4.6	66
218	X-ray crystal structure of benzoate 1,2-dioxygenase reductase from <i>Acinetobacter</i> sp. strain ADP1. <i>Journal of Molecular Biology</i> , <b>2002</b> , 318, 261-72	6.5	54
217	Mechanism of coenzyme recognition and binding revealed by crystal structure analysis of ferredoxin-NADP+ reductase complexed with NADP+. <i>Journal of Molecular Biology</i> , <b>2002</b> , 319, 1133-42	6.5	67
216	. <b>2002</b> ,		1150
215	<i>Schistosoma mansoni</i> ferredoxin NADP(H) oxidoreductase and its role in detoxification. <b>2002</b> , 124, 37-45		15
214	The superoxide-generating NADPH oxidase: structural aspects and activation mechanism. <b>2002</b> , 59, 1428-59		602
213	Probing the role of glutamic acid 139 of <i>Anabaena</i> ferredoxin-NADP+ reductase in the interaction with substrates. <b>2002</b> , 269, 4938-47		8
212	The import of ferredoxin-NADP+ reductase precursor into chloroplasts is modulated by the region between the transit peptide and the mature core of the protein. <b>2002</b> , 269, 5431-9		18
211	Effects of Amino and Thiol Group Reagents on the Ferredoxin:NADP+ Oxidoreductase Catalysed Reduction of Dibromothymoquinone. <b>2003</b> , 41, 627-630		2
210	Nitric oxide: the versatility of an extensive signal molecule. <b>2003</b> , 54, 109-36		714
209	Evolution of the soluble diiron monooxygenases. <b>2003</b> , 27, 449-79		267
208	Bacterial hemoglobins and flavohemoglobins: versatile proteins and their impact on microbiology and biotechnology. <b>2003</b> , 27, 525-45		154
207	Role of positively charged residues in <i>Chlamydomonas reinhardtii</i> ferredoxin-NADP+-reductase. <b>2003</b> , 41, 637-642		12
206	Open questions in ferredoxin-NADP+ reductase catalytic mechanism. <b>2003</b> , 270, 1900-15		203

205	Interaction of ferredoxin:NADP+ oxidoreductase with phycobilisomes and phycobilisome substructures of the cyanobacterium <i>Synechococcus</i> sp. strain PCC 7002. <i>Biochemistry</i> , <b>2003</b> , 42, 13800-13811	3.2	47
204	Engineering and characterization of a NADPH-utilizing cytochrome b5 reductase. <i>Biochemistry</i> , <b>2003</b> , 42, 11170-82	3.2	35
203	Subunit and cofactor binding of <i>Saccharomyces cerevisiae</i> sulfite reductase - towards developing wine yeast with lowered ability to produce hydrogen sulfide. <b>2003</b> , 9, 186-193		21
202	Nitric-oxide synthase (NOS) reductase domain models suggest a new control element in endothelial NOS that attenuates calmodulin-dependent activity. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 31814-24	5.4	49
201	Role of Thr(66) in porcine NADH-cytochrome b5 reductase in catalysis and control of the rate-limiting step in electron transfer. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 3580-9	5.4	24
200	NCB5OR is a novel soluble NAD(P)H reductase localized in the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 30316-25	5.4	31
199	Structural studies on flavin reductase PheA2 reveal binding of NAD in an unusual folded conformation and support novel mechanism of action. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 12860-7	5.4	63
198	Analysis of mRNA transcripts from the NAD(P)H oxidase 1 (Nox1) gene. Evidence against production of the NADPH oxidase homolog-1 short (NOH-1S) transcript variant. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 51661-8	5.4	30
197	Domain engineering of the reductase component of soluble methane monooxygenase from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 5630-40	5.4	19
196	A conserved aspartate (Asp-1393) regulates NADPH reduction of neuronal nitric-oxide synthase: implications for catalysis. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 18323-33	5.4	17
195	The FAD-shielding residue Phe1395 regulates neuronal nitric-oxide synthase catalysis by controlling NADP+ affinity and a conformational equilibrium within the flavoprotein domain. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 35412-25	5.4	44
194	Structural basis for isozyme-specific regulation of electron transfer in nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 37918-27	5.4	226
193	Ferredoxin and Ferredoxin-Dependent Enzymes. <b>1996</b> , 333-361		20
192	Interaction of Ferredoxin-NADP(+) Reductase with its Substrates: Optimal Interaction for Efficient Electron Transfer. <i>Photosynthesis Research</i> , <b>2004</b> , 79, 113-31	3.7	68
191	Structure and function of plant-type ferredoxins. <i>Photosynthesis Research</i> , <b>2004</b> , 81, 289-301	3.7	106
190	Structural Aspects of Plant Ferredoxin : NADP(+) Oxidoreductases. <i>Photosynthesis Research</i> , <b>2004</b> , 81, 303-15	3.7	34
189	Transient complexes of redox proteins: structural and dynamic details from NMR studies. <b>2004</b> , 17, 524-39		77
188	Probing the hydride transfer process in the lumiflavine- $\pi$ -methylnicotinamide model system using group softness. <b>2004</b> , 60, 4189-4196		8

187	Electron transfer by diflavin reductases. <b>2004</b> , 1698, 1-26		147
186	Functional plasticity and catalytic efficiency in plant and bacterial ferredoxin-NADP(H) reductases. <b>2004</b> , 1698, 155-65		111
185	Domain exchange between isoforms of ferredoxin-NADP+ reductase produces a functional enzyme. <b>2004</b> , 1696, 93-101		10
184	Structure-function relationships in unusual nonvertebrate globins. <b>2004</b> , 39, 217-59		23
183	Role of the C-terminal tyrosine of ferredoxin-nicotinamide adenine dinucleotide phosphate reductase in the electron transfer processes with its protein partners ferredoxin and flavodoxin. <i>Biochemistry</i> , <b>2004</b> , 43, 6127-37	3.2	57
182	NMR structure of the flavin domain from soluble methane monooxygenase reductase from <i>Methylococcus capsulatus</i> (Bath). <i>Biochemistry</i> , <b>2004</b> , 43, 11983-91	3.2	42
181	Overview of protein structural and functional folds. <b>2004</b> , Chapter 17, Unit 17.1		6
180	Supramolecular Membrane Organization. <b>1994</b> , 119-138		1
179	Identification of RARhoGAP, a novel putative RhoGAP gene expressed in male germ cells. <b>2004</b> , 84, 406-18		10
178	Crystal structure of putidaredoxin reductase from <i>Pseudomonas putida</i> , the final structural component of the cytochrome P450cam monooxygenase. <i>Journal of Molecular Biology</i> , <b>2004</b> , 336, 889-902	6.5	66
177	FAD assembly and thylakoid membrane binding of ferredoxin:NADP+ oxidoreductase in chloroplasts. <b>2004</b> , 564, 116-20		7
176	Structural analysis of interactions for complex formation between Ferredoxin-NADP+ reductase and its protein partners. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 59, 592-602	4.2	22
175	The plant-type ferredoxin-NADP+ reductase/ferredoxin redox system as a possible drug target against apicomplexan human parasites. <b>2005</b> , 11, 3159-72		55
174	Cytochrome P450. <b>2005</b> ,		705
173	C-terminal tail residue Arg1400 enables NADPH to regulate electron transfer in neuronal nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 39208-19	5.4	35
172	Diversity and function of mutations in p450 oxidoreductase in patients with Antley-Bixler syndrome and disordered steroidogenesis. <b>2005</b> , 76, 729-49		278
171	The ferredoxin-NADP(H) reductase from <i>Rhodobacter capsulatus</i> : molecular structure and catalytic mechanism. <i>Biochemistry</i> , <b>2005</b> , 44, 11730-40	3.2	36
170	Identification of the N- and C-terminal substrate binding segments of ferredoxin-NADP+ reductase by NMR. <i>Biochemistry</i> , <b>2005</b> , 44, 10644-53	3.2	26

- 169 Intermolecular electron-transfer reactions in soluble methane monooxygenase: a role for hysteresis in protein function. **2005**, 127, 17364-76 28
- 168 Ligand binding properties of bacterial hemoglobins and flavohemoglobins. *Biochemistry*, **2005**, 44, 4125-34 37
- 167 Cytochrome b5 reductase: role of the si-face residues, proline 92 and tyrosine 93, in structure and catalysis. *Biochemistry*, **2005**, 44, 2449-61 3.2 13
- 166 The journey from NADPH-cytochrome P450 oxidoreductase to nitric oxide synthases. *Biochemical and Biophysical Research Communications*, **2005**, 338, 507-19 3.4 45
- 165 Interflavin one-electron transfer in the inducible nitric oxide synthase reductase domain and NADPH-cytochrome P450 reductase. *Archives of Biochemistry and Biophysics*, **2005**, 440, 65-78 4.1 14
- 164 Electron Transfer Partners of Cytochrome P450. **2005**, 115-148 33
- 163 C-terminal tyrosine of ferredoxin-NADP+ reductase in hydride transfer processes with NAD(P)+/H. *Biochemistry*, **2005**, 44, 13477-90 3.2 47
- 162 Electron Transfer From Ferredoxin and Flavodoxin to Ferredoxin:NADP+ Reductase. **2006**, 455-476 9
- 161 Determining suitable lego-structures to estimate stability of larger peptide nanostructures using computational methods. **2006**, 3, S26-39 6
- 160 Roles of the species-specific subdomain and the N-terminal peptide of *Toxoplasma gondii* ferredoxin-NADP+ reductase in ferredoxin binding. *Biochemistry*, **2006**, 45, 3563-71 3.2 9
- 159 Role of Asp1393 in catalysis, flavin reduction, NADP(H) binding, FAD thermodynamics, and regulation of the nNOS flavoprotein. *Biochemistry*, **2006**, 45, 12596-609 3.2 20
- 158 Identification of Rv3230c as the NADPH oxidoreductase of a two-protein DesA3 acyl-CoA desaturase in *Mycobacterium tuberculosis* H37Rv. *Biochemistry*, **2006**, 45, 13476-86 3.2 19
- 157 Theoretical study on tertiary structural elements of beta-peptides: nanotubes formed from parallel-sheet-derived assemblies of beta-peptides. **2006**, 128, 5158-67 33
- 156 Crystal structure of 3-hydroxybenzoate hydroxylase from *Comamonas testosteroni* has a large tunnel for substrate and oxygen access to the active site. *Journal of Molecular Biology*, **2006**, 364, 878-96<sup>6.5</sup> 90
- 155 Phthalate Dioxygenase Reductase. **2006**,
- 154 Biochemical analysis of mutations in P450 oxidoreductase. **2006**, 34, 1186-91 12
- 153 Reduction of the pea ferredoxin-NADP(H) reductase catalytic efficiency by the structuring of a carboxyl-terminal artificial metal binding site. *Biochemistry*, **2006**, 45, 13899-909 3.2 9
- 152 Bacterial flavohaemoglobins: a consensus sequence and identification of a discrete enterobacterial group and of further bacterial globins. **2006**, 155, 179-181

151	Cytochromes P450--a family of proteins and scientists-understanding their relationships. <b>2006</b> , 38, 209-25		26
150	Diminished FAD binding in the Y459H and V492E Antley-Bixler syndrome mutants of human cytochrome P450 reductase. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 35975-82	5.4	43
149	Crystal structure of the NADH:quinone oxidoreductase WrbA from Escherichia coli. <b>2007</b> , 189, 9101-7		38
148	Leu505 of Nox2 is crucial for optimal p67phox-dependent activation of the flavocytochrome b558 during phagocytic NADPH oxidase assembly. <i>Journal of Leukocyte Biology</i> , <b>2007</b> , 81, 238-49	6.5	18
147	Characterization of a pseudomonad 2-nitrobenzoate nitroreductase and its catabolic pathway-associated 2-hydroxylaminobenzoate mutase and a chemoreceptor involved in 2-nitrobenzoate chemotaxis. <b>2007</b> , 189, 3502-14		56
146	Cores and pH-dependent dynamics of ferredoxin-NADP+ reductase revealed by hydrogen/deuterium exchange. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 5959-67	5.4	19
145	Ferredoxin-NADP+ reductase from Plasmodium falciparum undergoes NADP+-dependent dimerization and inactivation: functional and crystallographic analysis. <i>Journal of Molecular Biology</i> , <b>2007</b> , 367, 501-13	6.5	36
144	Structure and properties of the recombinant NADH-cytochrome b5 reductase of Physarum polycephalum. <b>2007</b> , 71, 783-90		1
143	Mechanism of coenzyme binding to human methionine synthase reductase revealed through the crystal structure of the FNR-like module and isothermal titration calorimetry. <i>Biochemistry</i> , <b>2007</b> , 46, 11833-44	3.2	35
142	Biochemical and structural characterization of Pseudomonas aeruginosa Bfd and FPR: ferredoxin NADP+ reductase and not ferredoxin is the redox partner of heme oxygenase under iron-starvation conditions. <i>Biochemistry</i> , <b>2007</b> , 46, 12198-211	3.2	35
141	[The X+ chronic granulomatous disease as a fabulous model to study the NADPH oxidase complex activation]. <b>2007</b> , 23, 526-32		3
140	Phase I Biotransformation Reactions-NADPH-Cytochrome P450 Reductase. <b>2007</b> , 1-8		
139	Phase I Biotransformation Reactions-NADH-Cytochrome b5 Reductase. <b>2007</b> , 1-8		
138	Mechanism of flavin reduction in the alkanesulfonate monooxygenase system. <b>2007</b> , 1774, 359-67		14
137	Clinical, structural and functional implications of mutations and polymorphisms in human NADPH P450 oxidoreductase. <b>2007</b> , 21, 399-410		38
136	Genetics and immunopathology of chronic granulomatous disease. <b>2008</b> , 30, 209-35		107
135	Docking analysis of transient complexes: interaction of ferredoxin-NADP+ reductase with ferredoxin and flavodoxin. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 72, 848-62	4.2	22
134	Crystal structure of the FMN-binding domain of human cytochrome P450 reductase at 1.93 Å resolution. <b>1999</b> , 8, 298-306		70

133	Structure, regulation and evolution of Nox-family NADPH oxidases that produce reactive oxygen species. <i>FEBS Journal</i> , <b>2008</b> , 275, 3249-77	5.7	509
132	Structure and stability of short beta-peptide nanotubes: a non-natural representative of collagen?. <b>2008</b> , 112, 7956-66		7
131	Bioenergetics and Biological Electron Transport. 1-37		2
130	Structural and functional diversity of ferredoxin-NADP(+) reductases. <i>Archives of Biochemistry and Biophysics</i> , <b>2008</b> , 474, 283-91	4.1	113
129	Molecular dynamics simulation study on stabilities and reactivities of NADH cytochrome B5 reductase. <b>2008</b> , 112, 5718-27		12
128	Biophysical Techniques in Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , <b>2008</b> ,	1.7	12
127	X-ray crystallographic and solution state nuclear magnetic resonance spectroscopic investigations of NADP+ binding to ferredoxin NADP reductase from <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , <b>2008</b> , 47, 8080-93	3.2	16
126	LuxG is a functioning flavin reductase for bacterial luminescence. <b>2008</b> , 190, 1531-8		53
125	Intrinsic non-symbiotic and truncated haemoglobins and heterologous <i>Vitreoscilla</i> haemoglobin expression in plants. <b>2009</b> , 60, 409-22		19
124	A professional and personal odyssey. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 19765-80	5.4	2
123	Structural and mechanistic roles of three consecutive Pro residues of porcine NADH-cytochrome b(5) reductase for the binding of beta-NADH. <b>2009</b> , 108, 286-92		1
122	Ferredoxin-NADP reductase from the thermophilic hydrogen-oxidizing bacterium, <i>Hydrogenobacter thermophilus</i> TK-6. <b>2009</b> , 297, 124-30		7
121	Coenzyme binding and hydride transfer in <i>Rhodobacter capsulatus</i> ferredoxin/flavodoxin NADP(H) oxidoreductase. <b>2009</b> , 1794, 199-210		17
120	Regulation of FMN subdomain interactions and function in neuronal nitric oxide synthase. <i>Biochemistry</i> , <b>2009</b> , 48, 3864-76	3.2	48
119	<i>Plasmodium falciparum</i> ferredoxin-NADP+ reductase His286 plays a dual role in NADP(H) binding and catalysis. <i>Biochemistry</i> , <b>2009</b> , 48, 9525-33	3.2	10
118	A computational comparison of electron transfer from reduced ferredoxin to flavin adenine dinucleotide and a gold electrode. <b>2009</b> , 113, 7298-307		2
117	Redox control of protein conformation in flavoproteins. <b>2009</b> , 11, 1741-66		45
116	Enzymatic catalysis: the emerging role of conceptual density functional theory. <b>2009</b> , 113, 13465-75		63

115	Plant NADPH-cytochrome P450 oxidoreductases. <b>2010</b> , 71, 132-41		114
114	Role of specific residues in coenzyme binding, charge-transfer complex formation, and catalysis in <i>Anabaena</i> ferredoxin NADP+-reductase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 1638-46	4.6	24
113	Crystal structure analysis of <i>Bacillus subtilis</i> ferredoxin-NADP(+) oxidoreductase and the structural basis for its substrate selectivity. <b>2010</b> , 19, 2279-90		23
112	Conformation-dependent hydride transfer in neuronal nitric oxide synthase reductase domain. <i>FEBS Journal</i> , <b>2010</b> , 277, 3833-43	5.7	19
111	Regulation of NADPH oxidase activity in phagocytes: relationship between FAD/NADPH binding and oxidase complex assembly. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 33197-33208	5.4	34
110	Study of the individual cytochrome b5 and cytochrome b5 reductase domains of Ncb5or reveals a unique heme pocket and a possible role of the CS domain. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 30181-91	5.4	21
109	Identification of the binding site for the regulatory calcium-binding domain in the catalytic domain of NOX5. <i>Biochemistry</i> , <b>2010</b> , 49, 761-71	3.2	45
108	Electron transfer of site-specifically cross-linked complexes between ferredoxin and ferredoxin-NADP(+) reductase. <i>Biochemistry</i> , <b>2010</b> , 49, 10013-23	3.2	6
107	Asymmetric dimeric structure of ferredoxin-NAD(P)+ oxidoreductase from the green sulfur bacterium <i>Chlorobaculum tepidum</i> : implications for binding ferredoxin and NADP+. <i>Journal of Molecular Biology</i> , <b>2010</b> , 401, 403-14	6.5	24
106	Studies of regioselectivity of large molecular systems using DFT based reactivity descriptors. <b>2010</b> , 106, 118		73
105	Structure of <i>Ralstonia eutropha</i> flavohemoglobin in complex with three antibiotic azole compounds. <i>Biochemistry</i> , <b>2011</b> , 50, 1255-64	3.2	23
104	The single-domain globin of <i>Vitreoscilla</i> : augmentation of aerobic metabolism for biotechnological applications. <b>2011</b> , 58, 81-139		17
103	Trans-plasma membrane electron transport in mammals: functional significance in health and disease. <b>2011</b> , 14, 2289-318		40
102	Life Implies Work: A Holistic Account of Our Microbial Biosphere Focussing on the Bioenergetic Processes of Cyanobacteria, the Ecologically Most Successful Organisms on Our Earth. <b>2011</b> , 3-70		2
101	Phthalate Dioxygenase Reductase. <b>2011</b> ,		
100	Chloroplast-targeted ferredoxin-NADP(+) oxidoreductase (FNR): structure, function and location. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2011</b> , 1807, 927-34	4.6	58
99	Role of nitric oxide in tolerance of plants to abiotic stress. <b>2011</b> , 248, 447-55		232
98	Sequencing analysis of 16S rDNA and soluble methane monooxygenase genes from a methanotroph <i>Methylosinus trichosporium</i> IMV 3011. <b>2011</b> , 61, 391-396		4



97	Binding energetics of ferredoxin-NADP <sup>+</sup> reductase with ferredoxin and its relation to function. <b>2011</b> , 12, 2062-70		22
96	FAD binding by ApbE protein from <i>Salmonella enterica</i> : a new class of FAD-binding proteins. <b>2011</b> , 193, 887-95		30
95	ThnY is a ferredoxin reductase-like iron-sulfur flavoprotein that has evolved to function as a regulator of tetralin biodegradation gene expression. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 1709-18 <sup>5.4</sup>		23
94	Inhibition of NADPH oxidase activation by peptides mapping within the dehydrogenase region of Nox2-A "peptide walking" study. <i>Journal of Leukocyte Biology</i> , <b>2012</b> , 91, 501-15	6.5	17
93	Cloning, expression, crystallization and preliminary X-ray studies of the ferredoxin-NAD(P) <sup>+</sup> reductase from the thermophilic cyanobacterium <i>Thermosynechococcus elongatus</i> BP-1. <b>2012</b> , 68, 1048-51		2
92	Structure and function of photosystem I and its application in biomimetic solar-to-fuel systems. <i>Journal of Plant Physiology</i> , <b>2012</b> , 169, 1639-53	3.6	48
91	A single tyrosine hydroxyl group almost entirely controls the NADPH specificity of <i>Plasmodium falciparum</i> ferredoxin-NADP <sup>+</sup> reductase. <i>Biochemistry</i> , <b>2012</b> , 51, 3819-26	3.2	11
90	Energy Conductance from Thylakoid Complexes to Stromal Reducing Equivalents. <b>2012</b> ,		2
89	The Plant-Type Ferredoxin-NADP <sup>+</sup> Reductases. <b>2012</b> ,		
88	Elucidations of the catalytic cycle of NADH-cytochrome b5 reductase by X-ray crystallography: new insights into regulation of efficient electron transfer. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 4295-306	6.5	19
87	Plant type ferredoxins and ferredoxin-dependent metabolism. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 1071-84	8.4	166
86	NADPH P450 oxidoreductase: structure, function, and pathology of diseases. <i>Pharmacology &amp; Therapeutics</i> , <b>2013</b> , 138, 229-54	13.9	153
85	P450 Oxidoreductase Deficiency (PORD). <b>2013</b> , 125-143		2
84	Origin, Evolution, and Interaction of Bioenergetic Processes in Cyanobacteria under Normal and Stressful Environments. <b>2013</b> , 61-92		
83	Ferredoxin-NADP <sup>+</sup> Reductase. <b>2013</b> , 299-302		
82	Positive effects of nitric oxide on <i>Solanum lycopersicum</i> . <i>Journal of Plant Interactions</i> , <b>2014</b> , 9, 10-18	3.8	7
81	Rings and ribbons in protein structures: Characterization using helical parameters and Ramachandran plots for repeating dipeptides. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 230-9	4.2	13
80	Cross-talk between nitric oxide and hydrogen peroxide in plant responses to abiotic stresses. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 100, 84-93	5.9	94



79	A hydrogen bond network in the active site of Anabaena ferredoxin-NADP(+) reductase modulates its catalytic efficiency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 251-63	4.6	9
78	External loops at the ferredoxin-NADP(+) reductase protein-partner binding cavity contribute to substrates allocation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 296-305	4.6	4
77	Physicochemical nature of interfaces controlling ferredoxin NADP(+) reductase activity through its interprotein interactions with ferredoxin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2015</b> , 1847, 1200-11	4.6	12
76	A Cys-Gly-Cys triad in the dehydrogenase region of Nox2 plays a key role in the interaction with p67phox. <i>Journal of Leukocyte Biology</i> , <b>2015</b> , 98, 859-74	6.5	12
75	X-ray Structure and Nuclear Magnetic Resonance Analysis of the Interaction Sites of the Ga-Substituted Cyanobacterial Ferredoxin. <i>Biochemistry</i> , <b>2015</b> , 54, 6052-61	3.2	15
74	A novel NADPH-dependent reductase of <i>Sulfobacillus acidophilus</i> TPY phenol hydroxylase: expression, characterization, and functional analysis. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 10417-10428	5.7	3
73	Effects of exogenous nitric oxide on growth, proline accumulation and antioxidant capacity in <i>Cakile maritima</i> seedlings subjected to water deficit stress. <i>Functional Plant Biology</i> , <b>2016</b> , 43, 939-948	2.7	15
72	Photoreduction of the ferredoxin/ferredoxin-NADP(+)-reductase complex by a linked ruthenium polypyridyl chromophore. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2016</b> , 160, 347-54	6.7	1
71	Sodium nitroprusside and indole acetic acid improve the tolerance of tomato plants to heat stress by protecting against DNA damage. <i>Journal of Plant Interactions</i> , <b>2017</b> , 12, 177-186	3.8	30
70	Energetic basis on interactions between ferredoxin and ferredoxin NADP reductase at varying physiological conditions. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 482, 909-915	3.4	5
69	Interaction and electron transfer between ferredoxin-NADP oxidoreductase and its partners: structural, functional, and physiological implications. <i>Photosynthesis Research</i> , <b>2017</b> , 134, 265-280	3.7	27
68	A Two-component NADPH Oxidase (NOX)-like System in Bacteria Is Involved in the Electron Transfer Chain to the Methionine Sulfoxide Reductase MsrP. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 2485-2494	5.4	24
67	A Single Organoiridium Complex Generating Highly Active Catalysts for both Water Oxidation and NAD <sup>+</sup> /NADH Transformations. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7788-7796	13.1	37
66	High-resolution studies of hydride transfer in the ferredoxin:NADP reductase superfamily. <i>FEBS Journal</i> , <b>2017</b> , 284, 3302-3319	5.7	10
65	Molecular and functional characterization of ferredoxin NADP(H) oxidoreductase from <i>Gracilaria chilensis</i> and its complex with ferredoxin. <i>Biological Research</i> , <b>2017</b> , 50, 39	7.6	2
64	Engineering stability in NADPH oxidases: A common strategy for enzyme production. <i>Molecular Membrane Biology</i> , <b>2017</b> , 34, 67-76	3.4	4
63	Arabidopsis FNRL protein is an NADPH-dependent chloroplast oxidoreductase resembling bacterial ferredoxin-NADP reductases. <i>Physiologia Plantarum</i> , <b>2018</b> , 162, 177-190	4.6	6
62	Cooperation of Photosynthetic and Nitrogen Metabolism. <b>2018</b> , 329-437		

61	Loss of Function in Zeaxanthin Epoxidase of Caused by a Single Amino Acid Mutation within the Substrate-Binding Site. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	3
60	Using Synthetic Peptides for Exploring Protein-Protein Interactions in the Assembly of the NADPH Oxidase Complex. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1982, 377-415	1.4	4
59	Biodegradation of Tetralin: Genomics, Gene Function and Regulation. <i>Genes</i> , <b>2019</b> , 10,	4.2	7
58	Phycobilisomes Harbor FNR in Cyanobacteria. <i>MBio</i> , <b>2019</b> , 10,	7.8	17
57	Importance of proton-coupled electron transfer in cathodic regeneration of organic hydrides. <i>Chemical Communications</i> , <b>2019</b> , 55, 5583-5586	5.8	11
56	Heavy metal stress and responses in plants. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 1807-1828	3.3	200
55	Sources of Vascular Nitric Oxide and Reactive Oxygen Species and Their Regulation. <i>Physiological Reviews</i> , <b>2019</b> , 99, 311-379	47.9	173
54	Electron flow between the worlds of Marcus and Warburg. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 225103.9	10.9	2
53	Role of reactive nitrogen species in enhancing metal/metalloid tolerance in plants: A basis of phytoremediation. <b>2021</b> , 195-203		0
52	Physiological and Molecular Responses to Heavy Metal Stresses in Plants. <b>2021</b> , 171-202		2
51	Flavins in the electron bifurcation process. <i>Archives of Biochemistry and Biophysics</i> , <b>2021</b> , 701, 108796	4.1	8
50	Structures of human dual oxidase 1 complex in low-calcium and high-calcium states. <i>Nature Communications</i> , <b>2021</b> , 12, 155	17.4	5
49	X-ray Crystallography of Photosynthetic Proteins. <i>Advances in Photosynthesis and Respiration</i> , <b>2008</b> , 97-124	12.4	3
48	Ferric iron reduction and iron uptake in eucaryotes: studies with the yeasts <i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> . <i>Advances in Experimental Medicine and Biology</i> , <b>1994</b> , 356, 81-9	3.6	14
47	NADH-cytochrome b5 reductase and cytochrome b5. The problem of posttranslational targeting to the endoplasmic reticulum. <i>Sub-Cellular Biochemistry</i> , <b>1993</b> , 21, 313-41	5.5	19
46	NADPH Cytochrome P450 Reductase and Its Structural and Functional Domains. <b>1995</b> , 225-244		24
45	Electron Transfer Partners of Cytochrome P450. <b>2015</b> , 33-68		17
44	Protein and Gene Structure and Regulation of NADPH-Cytochrome P450 Oxidoreductase. <i>Handbook of Experimental Pharmacology</i> , <b>1993</b> , 35-58	3.2	16

43	Nitric oxide: physiological roles, biosynthesis and medical uses. <i>Progress in the Chemistry of Organic Natural Products</i> , <b>1999</b> , 76, 1-211	1.9	15
42	Soluble Electron Transfer Catalysts of Cyanobacteria. <b>1994</b> , 381-407		23
41	Supramolecular Membrane Organization. <b>1994</b> , 119-138		50
40	Components and Organisation of the NADPH Oxidase of Phagocytic Cells, the Paradigm for an Electron Transport Chain across the Plasma Membrane. <b>1998</b> , 69-101		11
39	Composition and Function of the NADPH Oxidase of Phagocytic Cells with Particular Reference to Redox Components Located within the Plasma Membrane. <b>1992</b> , 1-20		1
38	Epitope Mapping with Peptides. <b>1995</b> , 419-454		3
37	Identification of an Essential Cysteine of nitrate reductase via mutagenesis of its recombinant cytochrome b reductase domain.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 13785-13791	5.4	22
36	Interaction of NADPH-adrenoferreredoxin reductase with NADP+ and adrenoferreredoxin. Equilibrium and dynamic properties investigated by proton nuclear magnetic resonance.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 8001-8006	5.4	3
35	Primary sequence and evidence for a physiological function of the flavohemoprotein of <i>Alcaligenes eutrophus</i> .. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 7349-7354	5.4	91
34	An in-frame deletion of codon 298 of the NADH-cytochrome b5 reductase gene results in hereditary methemoglobinemia type II (generalized type). A functional implication for the role of the COOH-terminal region of the enzyme.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 5952-5957	5.4	32
33	Identification of a glycine-rich sequence as an NAD(P)H-binding site and tyrosine 128 as a dicumarol-binding site in rat liver NAD(P)H:quinone oxidoreductase by site-directed mutagenesis.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 22298-22304	5.4	42
32	Carboxyl terminus of inducible nitric oxide synthase. Contribution to NADPH binding and enzymatic activity.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 28500-28505	5.4	52
31	Flavodoxin and NADPH-flavodoxin reductase from <i>Escherichia coli</i> support bovine cytochrome P450c17 hydroxylase activities.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 27401-27408	5.4	117
30	Glutamate synthase genes of the diazotroph <i>Azospirillum brasilense</i> . Cloning, sequencing, and analysis of functional domains.. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 3099-3106	5.4	37
29	The sequence of squash NADH:nitrate reductase and its relationship to the sequences of other flavoprotein oxidoreductases. A family of flavoprotein pyridine nucleotide cytochrome reductases.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 23542-23547	5.4	36
28	Expression, purification, and properties of the flavoprotein domain of cytochrome P-450BM-3. Evidence for the importance of the amino-terminal region for FMN binding.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 22718-22725	5.4	42
27	Characterization of neutrophil NADPH oxidase factors p47-phox and p67-phox from recombinant baculoviruses.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 19812-19818	5.4	81
26	Probing the role of lysine 116 and lysine 244 in the spinach ferredoxin-NADP+ reductase by site-directed mutagenesis.. <i>Journal of Biological Chemistry</i> , <b>1991</b> , 266, 17760-17763	5.4	33

25	Probing the role of the carboxyl-terminal region of ferredoxin-NADP+ reductase by site-directed mutagenesis and deletion analysis.. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 19267-19273	5.4	32
24	Molecular cloning and expression of a cDNA encoding endothelial cell nitric oxide synthase.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 15274-15276	5.4	344
23	Identification of chromophore binding domains of yeast DNA photolyase.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 2909-2914	5.4	13
22	Characterization of the role of lysine 110 of NADH-cytochrome b5 reductase in the binding and oxidation of NADH by site-directed mutagenesis.. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 20164-20167	5.4	6
21	Enzymatic instability of NADH-cytochrome b5 reductase as a cause of hereditary methemoglobinemia type I (red cell type).. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 20416-20421	5.4	42
20	Structure of the electron transfer complex between ferredoxin and ferredoxin-NADP+ reductase.		1
19	Identification of an NADH-cytochrome b(5) reductase gene from an arachidonic acid-producing fungus, <i>Mortierella alpina</i> 1S-4, by sequencing of the encoding cDNA and heterologous expression in a fungus, <i>Aspergillus oryzae</i> . <i>Applied and Environmental Microbiology</i> , <b>1999</b> , 65, 3873-9	4.8	17
18	The fission yeast ferric reductase gene <i>frp1+</i> is required for ferric iron uptake and encodes a protein that is homologous to the gp91-phox subunit of the human NADPH phagocyte oxidoreductase. <i>Molecular and Cellular Biology</i> , <b>1993</b> , 13, 4342-4350	4.8	42
17	Two distinctly regulated genes are required for ferric reduction, the first step of iron uptake in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , <b>1994</b> , 14, 3065-3073	4.8	64
16	A Mechanistic Analysis of CEO Bond Cleavage Events with a Comparison to 3,6-Dideoxysugar Formation. <b>1999</b> ,		1
15	The ferredoxin <i>ThnA3</i> negatively regulates tetralin biodegradation gene expression via <i>ThnY</i> , a ferredoxin reductase that functions as a regulator of the catabolic pathway. <i>PLoS ONE</i> , <b>2013</b> , 8, e73910	3.7	6
14	Ferredoxin-NADP+ Reductase. <b>2004</b> , 107-111		
13	Bioenergetics Theory and Components   Ferredoxin-NADP+ Reductase. <b>2013</b> , 89-93		
12	Bibliography. <b>2014</b> , 227-231		
11	Electrostatic Complementarity in Protein-Substrate Interactions and Ligand Design. <i>NATO ASI Series Series B: Physics</i> , <b>1994</b> , 373-380		
10	Die Katalysatoren der Zelle: Enzyme. <i>Springer-Lehrbuch</i> , <b>1994</b> , 24-48	0.4	
9	Primary Structure and Post-Translational Modification of Ferredoxin-NADP Reductase from <i>Chlamydomonas reinhardtii</i> . <b>1995</b> , 1627-1630		
8	Involvement of the FAD Domain Residue Tyrosine 308 on Stability and Function of Ferredoxin-NADP+ Reductase. <b>1995</b> , 1639-1642		

7	Structural Perspective of Ferredoxin NAD(P)H Reductase Reactions with Cytochrome b6f Complexes. <i>Advances in Photosynthesis and Respiration</i> , <b>2016</b> , 253-264	1.7
6	Soluble Electron Transfer Catalysts of Cyanobacteria. <b>1994</b> , 381-407	1
5	Roles of Ferredoxin-NADP+ Oxidoreductase and Flavodoxin in NAD(P)H-Dependent Electron Transfer Systems. <b>2022</b> , 11, 2143	0
4	Cytochrome b5 reductases: redox regulators of cell homeostasis. <b>2022</b> , 102654	3
3	Photochemical formation of hydride using transition metal complexes and its application to photocatalytic reduction of the coenzyme NAD(P)+ and its model compounds. <b>2023</b> , 477, 214955	0
2	CRISPR-gene-engineeredCYBBknock-out PLB-985 cells, a useful model to study functional impact of X-linked chronic granulomatous disease mutations: application to the G412E X91+-CGD mutation.	0
1	Bis-Imidazolium-Embedded Heterohelicene: A Regenerable NADP+ Cofactor Analogue for Electrocatalytic CO2 Reduction. <b>2023</b> , 145, 7230-7241	0