

Dennis J Stuehr

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229
papers

15,717
citations

68
h-index

118
g-index

235
ext. papers

16,698
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| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 229 | Function of mitochondrial Stat3 in cellular respiration. <i>Science</i> , 2009 , 323, 793-7 | 33.3 | 702 |
| 228 | Mammalian nitric oxide synthases. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999 , 1411, 217-30 | 4.6 | 694 |
| 227 | Structure of nitric oxide synthase oxygenase dimer with pterin and substrate. <i>Science</i> , 1998 , 279, 2121-6 | 33.3 | 624 |
| 226 | Structure-function aspects in the nitric oxide synthases. <i>Annual Review of Pharmacology and Toxicology</i> , 1997 , 37, 339-59 | 17.9 | 434 |
| 225 | Inhibition of macrophage and endothelial cell nitric oxide synthase by diphenyleneiodonium and its analogs. <i>FASEB Journal</i> , 1991 , 5, 98-103 | 0.9 | 415 |
| 224 | Update on mechanism and catalytic regulation in the NO synthases. <i>Journal of Biological Chemistry</i> , 2004 , 279, 36167-70 | 5.4 | 383 |
| 223 | The structure of nitric oxide synthase oxygenase domain and inhibitor complexes. <i>Science</i> , 1997 , 278, 425-31 | 33.3 | 321 |
| 222 | Oxygen reduction by nitric-oxide synthases. <i>Journal of Biological Chemistry</i> , 2001 , 276, 14533-6 | 5.4 | 312 |
| 221 | Alterations of cellular bioenergetics in pulmonary artery endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1342-7 | 11.5 | 284 |
| 220 | Macrophage and endothelial cell nitric oxide synthesis: cell-type selective inhibition by NG-aminoarginine, NG-nitroarginine and NG-methylarginine. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 170, 96-103 | 3.4 | 253 |
| 219 | Structural basis for isozyme-specific regulation of electron transfer in nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37918-27 | 5.4 | 226 |
| 218 | Multiple cytokines are required to induce hepatocyte nitric oxide production and inhibit total protein synthesis. <i>Annals of Surgery</i> , 1990 , 212, 462-9; discussion 470-1 | 7.8 | 216 |
| 217 | Nitrosation of amines by stimulated macrophages. <i>Carcinogenesis</i> , 1987 , 8, 955-8 | 4.6 | 212 |
| 216 | Nitric oxide and nitric oxide-generating compounds inhibit hepatocyte protein synthesis. <i>FASEB Journal</i> , 1991 , 5, 2085-92 | 0.9 | 198 |
| 215 | Arginine conversion to nitroxide by tetrahydrobiopterin-free neuronal nitric-oxide synthase. Implications for mechanism. <i>Journal of Biological Chemistry</i> , 2000 , 275, 33554-61 | 5.4 | 188 |
| 214 | Protein tyrosine nitration in the mitochondria from diabetic mouse heart. Implications to dysfunctional mitochondria in diabetes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 33972-7 | 5.4 | 186 |
| 213 | FAD and GSH participate in macrophage synthesis of nitric oxide. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 168, 558-65 | 3.4 | 170 |

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| 212 | Substrate specificity of NO synthases: detailed comparison of L-arginine, homo-L-arginine, their N omega-hydroxy derivatives, and N omega-hydroxynor-L-arginine. <i>Biochemistry</i> , 1998 , 37, 10453-60 | 3.2 | 169 |
| 211 | Tetrahydrobiopterin radical enzymology. <i>Chemical Reviews</i> , 2003 , 103, 2365-83 | 68.1 | 162 |
| 210 | Novel mechanism of activation of NADPH oxidase 5. calcium sensitization via phosphorylation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6494-507 | 5.4 | 160 |
| 209 | Anchored plasticity opens doors for selective inhibitor design in nitric oxide synthase. <i>Nature Chemical Biology</i> , 2008 , 4, 700-7 | 11.7 | 156 |
| 208 | Occurrence, structure, and evolution of nitric oxide synthase-like proteins in the plant kingdom. <i>Science Signaling</i> , 2016 , 9, re2 | 8.8 | 155 |
| 207 | Neuronal nitric oxide synthase self-inactivates by forming a ferrous-nitrosyl complex during aerobic catalysis. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22997-3006 | 5.4 | 152 |
| 206 | Domain swapping in inducible nitric-oxide synthase. Electron transfer occurs between flavin and heme groups located on adjacent subunits in the dimer. <i>Journal of Biological Chemistry</i> , 1998 , 273, 18950-8 | 5.4 | 150 |
| 205 | Comparative functioning of dihydro- and tetrahydropterins in supporting electron transfer, catalysis, and subunit dimerization in inducible nitric oxide synthase. <i>Biochemistry</i> , 1998 , 37, 298-310 | 3.2 | 149 |
| 204 | Characterization of the inducible nitric oxide synthase oxygenase domain identifies a 49 amino acid segment required for subunit dimerization and tetrahydrobiopterin interaction. <i>Biochemistry</i> , 1997 , 36, 10609-19 | 3.2 | 147 |
| 203 | Direct evidence for nitric oxide production by a nitric-oxide synthase-like protein from <i>Bacillus subtilis</i> . <i>Journal of Biological Chemistry</i> , 2002 , 277, 16167-71 | 5.4 | 144 |
| 202 | Intracellular assembly of inducible NO synthase is limited by nitric oxide-mediated changes in heme insertion and availability. <i>Journal of Biological Chemistry</i> , 1996 , 271, 5414-21 | 5.4 | 144 |
| 201 | Rapid and selective oxygen-regulated protein tyrosine denitration and nitration in mitochondria. <i>Journal of Biological Chemistry</i> , 2004 , 279, 27257-62 | 5.4 | 142 |
| 200 | Dynamics of protein nitration in cells and mitochondria. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H30-8 | 5.2 | 134 |
| 199 | Structures of the N(omega)-hydroxy-L-arginine complex of inducible nitric oxide synthase oxygenase dimer with active and inactive pterins. <i>Biochemistry</i> , 2000 , 39, 4608-21 | 3.2 | 132 |
| 198 | Irreversible inactivation of macrophage and brain nitric oxide synthase by L-NG-methylarginine requires NADPH-dependent hydroxylation. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 491-6 | 8.3 | 124 |
| 197 | Characterization of the reductase domain of rat neuronal nitric oxide synthase generated in the methylotrophic yeast <i>Pichia pastoris</i> . Calmodulin response is complete within the reductase domain itself. <i>Journal of Biological Chemistry</i> , 1996 , 271, 20594-602 | 5.4 | 123 |
| 196 | Synthesis of nitrogen oxides from L-arginine by macrophage cytosol: requirement for inducible and constitutive components. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 161, 420-6 | 3.4 | 123 |
| 195 | Cloning, expression, and characterization of a nitric oxide synthase protein from <i>Deinococcus radiodurans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 107-12 | 11.5 | 118 |

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| 194 | Bacterial nitric-oxide synthases operate without a dedicated redox partner. <i>Journal of Biological Chemistry</i> , 2008 , 283, 13140-7 | 5.4 | 116 |
| 193 | Stopped-flow analysis of CO and NO binding to inducible nitric oxide synthase. <i>Biochemistry</i> , 1998 , 37, 3777-86 | 3.2 | 116 |
| 192 | The ferrous-dioxy complex of neuronal nitric oxide synthase. Divergent effects of L-arginine and tetrahydrobiopterin on its stability. <i>Journal of Biological Chemistry</i> , 1997 , 272, 17349-53 | 5.4 | 115 |
| 191 | Enzymes of the L-arginine to nitric oxide pathway. <i>Journal of Nutrition</i> , 2004 , 134, 2748S-2751S; discussion 2765S-2767S | 4.1 | 115 |
| 190 | Structure of a nitric oxide synthase heme protein from <i>Bacillus subtilis</i> . <i>Biochemistry</i> , 2002 , 41, 11071-9 | 3.2 | 114 |
| 189 | Interaction between caveolin-1 and the reductase domain of endothelial nitric-oxide synthase. Consequences for catalysis. <i>Journal of Biological Chemistry</i> , 1998 , 273, 22267-71 | 5.4 | 114 |
| 188 | Rapid kinetic studies link tetrahydrobiopterin radical formation to heme-dioxy reduction and arginine hydroxylation in inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 315-9 | 5.4 | 108 |
| 187 | Nitric oxide binding to the heme of neuronal nitric-oxide synthase links its activity to changes in oxygen tension. <i>Journal of Biological Chemistry</i> , 1996 , 271, 32515-8 | 5.4 | 106 |
| 186 | Tetrahydrobiopterin binding to macrophage inducible nitric oxide synthase: heme spin shift and dimer stabilization by the potent pterin antagonist 4-amino-tetrahydrobiopterin. <i>Biochemistry</i> , 1997 , 36, 8422-7 | 3.2 | 105 |
| 185 | Comparative Effects of Substrates and Pterin Cofactor on the Heme Midpoint Potential in Inducible and Neuronal Nitric Oxide Synthases. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9460-9465 | 16.4 | 103 |
| 184 | Distinct dimer interaction and regulation in nitric-oxide synthase types I, II, and III. <i>Journal of Biological Chemistry</i> , 2002 , 277, 31020-30 | 5.4 | 101 |
| 183 | Structural and mechanistic aspects of flavoproteins: electron transfer through the nitric oxide synthase flavoprotein domain. <i>FEBS Journal</i> , 2009 , 276, 3959-74 | 5.7 | 100 |
| 182 | Abnormalities in nitric oxide and its derivatives in lung cancer. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 597-605 | 10.2 | 94 |
| 181 | N-terminal domain swapping and metal ion binding in nitric oxide synthase dimerization. <i>EMBO Journal</i> , 1999 , 18, 6271-81 | 13 | 94 |
| 180 | Differences in three kinetic parameters underpin the unique catalytic profiles of nitric-oxide synthases I, II, and III. <i>Journal of Biological Chemistry</i> , 2001 , 276, 48887-98 | 5.4 | 93 |
| 179 | GAPDH regulates cellular heme insertion into inducible nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18004-9 | 11.5 | 92 |
| 178 | Calmodulin activates intersubunit electron transfer in the neuronal nitric-oxide synthase dimer. <i>Journal of Biological Chemistry</i> , 2001 , 276, 23349-56 | 5.4 | 92 |
| 177 | Neuronal nitric-oxide synthase mutant (Ser-1412 --> Asp) demonstrates surprising connections between heme reduction, NO complex formation, and catalysis. <i>Journal of Biological Chemistry</i> , 2001 , 276, 1244-52 | 5.4 | 89 |

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| 176 | High-level expression of mouse inducible nitric oxide synthase in <i>Escherichia coli</i> requires coexpression with calmodulin. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 222, 439-44 | 3.4 | 89 |
| 175 | Evidence that light modulates protein nitration in rat retina. <i>Molecular and Cellular Proteomics</i> , 2002 , 1, 293-303 | 7.6 | 87 |
| 174 | Electron transfer, oxygen binding, and nitric oxide feedback inhibition in endothelial nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 17349-57 | 5.4 | 85 |
| 173 | Mechanistic studies with potent and selective inducible nitric-oxide synthase dimerization inhibitors. <i>Journal of Biological Chemistry</i> , 2002 , 277, 295-302 | 5.4 | 81 |
| 172 | Interactions between substrate analogues and heme ligands in nitric oxide synthase. <i>Biochemistry</i> , 1997 , 36, 4595-606 | 3.2 | 80 |
| 171 | A tetrahydrobiopterin radical forms and then becomes reduced during Nomega-hydroxyarginine oxidation by nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46668-73 | 5.4 | 78 |
| 170 | Identification of nitric oxide synthase as a thiolate-ligated heme protein using magnetic circular dichroism spectroscopy. Comparison with cytochrome P-450-CAM and chloroperoxidase. <i>Journal of Biological Chemistry</i> , 1995 , 270, 19943-8 | 5.4 | 77 |
| 169 | Heme iron reduction and catalysis by a nitric oxide synthase heterodimer containing one reductase and two oxygenase domains. <i>Journal of Biological Chemistry</i> , 1996 , 271, 7309-12 | 5.4 | 77 |
| 168 | A kinetic simulation model that describes catalysis and regulation in nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 1233-43 | 5.4 | 76 |
| 167 | Antifungal imidazoles block assembly of inducible NO synthase into an active dimer. <i>Journal of Biological Chemistry</i> , 1999 , 274, 930-8 | 5.4 | 74 |
| 166 | Peracid oxidation of an N-hydroxyguanidine compound: a chemical model for the oxidation of N omega-hydroxyl-L-arginine by nitric oxide synthase. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 2666-70 | 8.3 | 73 |
| 165 | Mutagenesis of acidic residues in the oxygenase domain of inducible nitric-oxide synthase identifies a glutamate involved in arginine binding. <i>Biochemistry</i> , 1997 , 36, 5097-103 | 3.2 | 72 |
| 164 | Role of reductase domain cluster 1 acidic residues in neuronal nitric-oxide synthase. Characterization of the FMN-FREE enzyme. <i>Journal of Biological Chemistry</i> , 1999 , 274, 22313-20 | 5.4 | 72 |
| 163 | Generation of nitroxyl by heme protein-mediated peroxidation of hydroxylamine but not N-hydroxy-L-arginine. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 578-84 | 7.8 | 69 |
| 162 | NO synthase isozymes have distinct substrate binding sites. <i>Biochemistry</i> , 1997 , 36, 12660-5 | 3.2 | 68 |
| 161 | Bacterial flavodoxins support nitric oxide production by <i>Bacillus subtilis</i> nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 2196-202 | 5.4 | 68 |
| 160 | Analysis of neuronal NO synthase under single-turnover conditions: conversion of Nomega-hydroxyarginine to nitric oxide and citrulline. <i>Biochemistry</i> , 1997 , 36, 10811-6 | 3.2 | 67 |
| 159 | Analysis of substrate-induced electronic, catalytic, and structural changes in inducible NO synthase. <i>Biochemistry</i> , 1996 , 35, 5883-92 | 3.2 | 67 |

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| 158 | Luminescent ruthenium(II)- and rhenium(I)-diimine wires bind nitric oxide synthase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5169-73 | 16.4 | 65 |
| 157 | Formation and reactions of the heme-dioxygen intermediate in the first and second steps of nitric oxide synthesis as studied by stopped-flow spectroscopy under single-turnover conditions. <i>Biochemistry</i> , 2000 , 39, 2332-9 | 3.2 | 65 |
| 156 | Regulation of inducible nitric oxide synthase by self-generated NO. <i>Biochemistry</i> , 2001 , 40, 6876-81 | 3.2 | 65 |
| 155 | Substrate binding and calmodulin binding to endothelial nitric oxide synthase coregulate its enzymatic activity. <i>Nitric Oxide - Biology and Chemistry</i> , 1997 , 1, 74-87 | 5 | 64 |
| 154 | Nitric oxide synthase enzymology in the 20 years after the Nobel Prize. <i>British Journal of Pharmacology</i> , 2019 , 176, 177-188 | 8.6 | 64 |
| 153 | Inducible nitric oxide synthase: role of the N-terminal beta-hairpin hook and pterin-binding segment in dimerization and tetrahydrobiopterin interaction. <i>EMBO Journal</i> , 1999 , 18, 6260-70 | 13 | 61 |
| 152 | Heme distortion modulated by ligand-protein interactions in inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 26489-99 | 5.4 | 60 |
| 151 | Catalytic reduction of a tetrahydrobiopterin radical within nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 11734-42 | 5.4 | 59 |
| 150 | Protection of extraribosomal RPL13a by GAPDH and dysregulation by S-nitrosylation. <i>Molecular Cell</i> , 2012 , 47, 656-63 | 17.6 | 58 |
| 149 | A connecting hinge represses the activity of endothelial nitric oxide synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9254-9 | 11.5 | 55 |
| 148 | A DNA microarray study of nitric oxide-induced genes in mouse hepatocytes: implications for hepatic heme oxygenase-1 expression in ischemia/reperfusion. <i>Nitric Oxide - Biology and Chemistry</i> , 2002 , 7, 165-86 | 5 | 55 |
| 147 | Neuronal nitric-oxide synthase interaction with calmodulin-troponin C chimeras. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5451-4 | 5.4 | 55 |
| 146 | A bipartite interaction between Hsp70 and CHIP regulates ubiquitination of chaperoned client proteins. <i>Structure</i> , 2015 , 23, 472-482 | 5.2 | 54 |
| 145 | N-Aryl NPhydroxyguanidines, a new class of NO-donors after selective oxidation by nitric oxide synthases: structure-activity relationship. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 944-54 | 8.3 | 54 |
| 144 | Tryptophan 409 controls the activity of neuronal nitric-oxide synthase by regulating nitric oxide feedback inhibition. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26907-11 | 5.4 | 54 |
| 143 | Glyceraldehyde-3-phosphate dehydrogenase is a chaperone that allocates labile heme in cells. <i>Journal of Biological Chemistry</i> , 2018 , 293, 14557-14568 | 5.4 | 53 |
| 142 | Picosecond photoreduction of inducible nitric oxide synthase by rhenium(I)-diimine wires. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15907-15 | 16.4 | 52 |
| 141 | Surface charge interactions of the FMN module govern catalysis by nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 36819-27 | 5.4 | 51 |

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| 140 | Mutational analysis of the tetrahydrobiopterin-binding site in inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24100-12 | 5.4 | 51 |
| 139 | Tetrahydrobiopterin in nitric oxide synthase. <i>IUBMB Life</i> , 2013 , 65, 358-65 | 4.7 | 50 |
| 138 | Structure of tetrahydrobiopterin tunes its electron transfer to the heme-dioxy intermediate in nitric oxide synthase. <i>Biochemistry</i> , 2003 , 42, 1969-77 | 3.2 | 50 |
| 137 | Superoxide generation mediated by 8-nitroguanosine, a highly redox-active nucleic acid derivative. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 311, 300-6 | 3.4 | 50 |
| 136 | Reconstitution of the second step in NO synthesis using the isolated oxygenase and reductase domains of macrophage NO synthase. <i>Biochemistry</i> , 1995 , 34, 11316-20 | 3.2 | 50 |
| 135 | A conserved Val to Ile switch near the heme pocket of animal and bacterial nitric-oxide synthases helps determine their distinct catalytic profiles. <i>Journal of Biological Chemistry</i> , 2004 , 279, 19018-25 | 5.4 | 49 |
| 134 | Regulation of FMN subdomain interactions and function in neuronal nitric oxide synthase. <i>Biochemistry</i> , 2009 , 48, 3864-76 | 3.2 | 48 |
| 133 | The ferrous dioxygen complex of the oxygenase domain of neuronal nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 3201-5 | 5.4 | 48 |
| 132 | Nitric oxide-generated P420 nitric oxide synthase: characterization and roles for tetrahydrobiopterin and substrate in protecting against or reversing the P420 conversion. <i>Biochemistry</i> , 1999 , 38, 1912-20 | 3.2 | 48 |
| 131 | A conserved flavin-shielding residue regulates NO synthase electron transfer and nicotinamide coenzyme specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 13516-21 | 11.5 | 47 |
| 130 | Hsp90 interacts with inducible NO synthase client protein in its heme-free state and then drives heme insertion by an ATP-dependent process. <i>FASEB Journal</i> , 2011 , 25, 2049-60 | 0.9 | 46 |
| 129 | Substrate- and isoform-specific dioxygen complexes of nitric oxide synthase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6943-51 | 16.4 | 46 |
| 128 | Tyrosine nitration impairs mammalian aldolase A activity. <i>Molecular and Cellular Proteomics</i> , 2004 , 3, 548-57 | 7.6 | 46 |
| 127 | Soluble guanylyl cyclase requires heat shock protein 90 for heme insertion during maturation of the NO-active enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12998-3003 | 11.5 | 45 |
| 126 | Heme binding properties of glyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , 2012 , 51, 8514-29.2 | 3.2 | 45 |
| 125 | Differences in a conformational equilibrium distinguish catalysis by the endothelial and neuronal nitric-oxide synthase flavoproteins. <i>Journal of Biological Chemistry</i> , 2008 , 283, 19603-15 | 5.4 | 45 |
| 124 | Molecular basis for hyperactivity in tryptophan 409 mutants of neuronal NO synthase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 17434-9 | 5.4 | 45 |
| 123 | Nitric oxide and heat shock protein 90 activate soluble guanylate cyclase by driving rapid change in its subunit interactions and heme content. <i>Journal of Biological Chemistry</i> , 2014 , 289, 15259-71 | 5.4 | 44 |

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| 122 | 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> , 2004 , 279, 35412-25 | 5.4 | 44 |
| 121 | Recognition of alpha-amino acids bearing various C=NOH functions by nitric oxide synthase and arginase involves very different structural determinants. <i>Biochemistry</i> , 2000 , 39, 8208-18 | 3.2 | 44 |
| 120 | Regulation of the properties of the heme-NO complexes in nitric-oxide synthase by hydrogen bonding to the proximal cysteine. <i>Journal of Biological Chemistry</i> , 2001 , 276, 38280-8 | 5.4 | 42 |
| 119 | Stabilization and characterization of a heme-oxy reaction intermediate in inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33498-507 | 5.4 | 40 |
| 118 | The three nitric-oxide synthases differ in their kinetics of tetrahydrobiopterin radical formation, heme-dioxy reduction, and arginine hydroxylation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 8929-35 | 5.4 | 40 |
| 117 | EPR spectroscopic characterization of neuronal NO synthase. <i>Biochemistry</i> , 1996 , 35, 2804-10 | 3.2 | 39 |
| 116 | A conserved tryptophan in nitric oxide synthase regulates heme-dioxy reduction by tetrahydrobiopterin. <i>Biochemistry</i> , 2001 , 40, 12819-25 | 3.2 | 38 |
| 115 | Surface charges and regulation of FMN to heme electron transfer in nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 27232-27240 | 5.4 | 37 |
| 114 | Chimeras of nitric-oxide synthase types I and III establish fundamental correlates between heme reduction, heme-NO complex formation, and catalytic activity. <i>Journal of Biological Chemistry</i> , 2001 , 276, 23246-52 | 5.4 | 36 |
| 113 | Soluble guanylate cyclase as an alternative target for bronchodilator therapy in asthma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2355-62 | 11.5 | 36 |
| 112 | C-terminal tail residue Arg1400 enables NADPH to regulate electron transfer in neuronal nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 39208-19 | 5.4 | 35 |
| 111 | Single-molecule spectroscopy reveals how calmodulin activates NO synthase by controlling its conformational fluctuation dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11835-40 | 11.5 | 34 |
| 110 | Exploring the redox reactions between heme and tetrahydrobiopterin in the nitric oxide synthases. <i>Dalton Transactions</i> , 2005 , 3427-35 | 4.3 | 34 |
| 109 | Nitric oxide blocks cellular heme insertion into a broad range of heme proteins. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1548-58 | 7.8 | 33 |
| 108 | Resonance Raman study of <i>Bacillus subtilis</i> NO synthase-like protein: similarities and differences with mammalian NO synthases. <i>Biochemistry</i> , 2006 , 45, 1480-9 | 3.2 | 33 |
| 107 | Cotransplantation with myeloid-derived suppressor cells protects cell transplants: a crucial role of inducible nitric oxide synthase. <i>Transplantation</i> , 2014 , 97, 740-7 | 1.8 | 31 |
| 106 | Tyk2 tyrosine kinase expression is required for the maintenance of mitochondrial respiration in primary pro-B lymphocytes. <i>Molecular and Cellular Biology</i> , 2006 , 26, 8562-71 | 4.8 | 31 |
| 105 | A proximal tryptophan in NO synthase controls activity by a novel mechanism. <i>Journal of Inorganic Biochemistry</i> , 2001 , 83, 301-8 | 4.2 | 31 |

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| 104 | Control of nitric oxide synthase dimer assembly by a heme-NO-dependent mechanism. <i>Biochemistry</i> , 2002 , 41, 4618-25 | 3.2 | 31 |
| 103 | Structures of tetrahydrobiopterin binding-site mutants of inducible nitric oxide synthase oxygenase dimer and implicated roles of Trp457. <i>Biochemistry</i> , 2001 , 40, 12826-32 | 3.2 | 31 |
| 102 | Glucose-modulated tyrosine nitration in beta cells: targets and consequences. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 484, 221-31 | 4.1 | 30 |
| 101 | Versatile regulation of neuronal nitric oxide synthase by specific regions of its C-terminal tail. <i>Biochemistry</i> , 2007 , 46, 14418-28 | 3.2 | 30 |
| 100 | Why do nitric oxide synthases use tetrahydrobiopterin?. <i>Journal of Inorganic Biochemistry</i> , 2002 , 91, 618-24 | 3.2 | 30 |
| 99 | Spectroscopic characterization of five- and six-coordinate ferrous-NO heme complexes. Evidence for heme Fe-proximal cysteinyl bond cleavage in the ferrous-NO adducts of the Trp-409Tyr/Phe proximal environment mutants of neuronal nitric oxide synthase. <i>Biochemistry</i> , 2003 , 42, 2475-84 | 3.2 | 30 |
| 98 | Phosphorylation inactivation of endothelial nitric oxide synthase in pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 310, L1199-205 | 5.8 | 29 |
| 97 | A conserved tryptophan 457 modulates the kinetics and extent of N-hydroxy-L-arginine oxidation by inducible nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 12830-7 | 5.4 | 29 |
| 96 | Hsp90 chaperones hemoglobin maturation in erythroid and nonerythroid cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1117-E1126 | 11.5 | 27 |
| 95 | A bridging interaction allows calmodulin to activate NO synthase through a bi-modal mechanism. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25941-9 | 5.4 | 27 |
| 94 | Activation of peroxynitrite by inducible nitric-oxide synthase: a direct source of nitrative stress. <i>Journal of Biological Chemistry</i> , 2007 , 282, 14101-12 | 5.4 | 27 |
| 93 | Hydrogen sulfide and nitric oxide metabolites in the blood of free-ranging brown bears and their potential roles in hibernation. <i>Free Radical Biology and Medicine</i> , 2014 , 73, 349-57 | 7.8 | 26 |
| 92 | Regulation of the monomer-dimer equilibrium in inducible nitric-oxide synthase by nitric oxide. <i>Journal of Biological Chemistry</i> , 2006 , 281, 8197-204 | 5.4 | 26 |
| 91 | Purification and properties of nitric oxide synthases. <i>Methods in Enzymology</i> , 1996 , 268, 324-33 | 1.7 | 25 |
| 90 | Ascorbate attenuates pulmonary emphysema by inhibiting tobacco smoke and Rtp801-triggered lung protein modification and proteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4208-17 | 11.5 | 25 |
| 89 | 14-3-3 in Thoracic Aortic Aneurysms: Identification of a Novel Autoantigen in Large Vessel Vasculitis. <i>Arthritis and Rheumatology</i> , 2015 , 67, 1913-21 | 9.5 | 24 |
| 88 | Role of arginine guanidinium moiety in nitric-oxide synthase mechanism of oxygen activation. <i>Journal of Biological Chemistry</i> , 2010 , 285, 7233-45 | 5.4 | 24 |
| 87 | Neutralizing a surface charge on the FMN subdomain increases the activity of neuronal nitric-oxide synthase by enhancing the oxygen reactivity of the enzyme heme-nitric oxide complex. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19237-47 | 5.4 | 23 |

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| 86 | Control of electron transfer and catalysis in neuronal nitric-oxide synthase (nNOS) by a hinge connecting its FMN and FAD-NADPH domains. <i>Journal of Biological Chemistry</i> , 2012 , 287, 30105-16 | 5.4 | 23 |
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