

Kirsten R Wolthers

List of Publications by Year in descending order

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papers

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32
times ranked

1326
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidics Integrated Biosensors: A Leading Technology towards Lab-on-a-Chip and Sensing Applications. <i>Sensors</i> , 2015, 15, 30011-30031.	3.8	385
2	Identification and in Vitro Biological Activities of Hop Proanthocyanidins: Inhibition of nNOS Activity and Scavenging of Reactive Nitrogen Species. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 3435-3443.	5.2	87
3	Mitochondrial transcription factor A (Tfam) is a pro-inflammatory extracellular signaling molecule recognized by brain microglia. <i>Molecular and Cellular Neurosciences</i> , 2014, 60, 88-96.	2.2	57
4	Molecular Dissection of Human Methionine Synthase Reductase: Determination of the Flavin Redox Potentials in Full-Length Enzyme and Isolated Flavin-Binding Domains. <i>Biochemistry</i> , 2003, 42, 3911-3920.	2.5	54
5	Large-scale Domain Dynamics and Adenosylcobalamin Reorientation Orchestrate Radical Catalysis in Ornithine 4,5-Aminomutase. <i>Journal of Biological Chemistry</i> , 2010, 285, 13942-13950.	3.4	48
6	Protein Interactions in the Human Methionine Synthase Methionine Synthase Reductase Complex and Implications for the Mechanism of Enzyme Reactivation. <i>Biochemistry</i> , 2007, 46, 6696-6709.	2.5	41
7	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> , 2007, 46, 11833-11844.	2.5	39
8	Cobalamin uptake and reactivation occurs through specific protein interactions in the methionine synthase-methionine synthase reductase complex. <i>FEBS Journal</i> , 2009, 276, 1942-1951.	4.7	34
9	Mechanism of Radical-based Catalysis in the Reaction Catalyzed by Adenosylcobalamin-dependent Ornithine 4,5-Aminomutase. <i>Journal of Biological Chemistry</i> , 2008, 283, 34615-34625.	3.4	33
10	Electron Transfer in Human Methionine Synthase Reductase Studied by Stopped-Flow Spectrophotometry. <i>Biochemistry</i> , 2004, 43, 490-500.	2.5	31
11	Mutagenesis of a Conserved Glutamate Reveals the Contribution of Electrostatic Energy to Adenosylcobalamin Co-C Bond Homolysis in Ornithine 4,5-Aminomutase and Methylmalonyl-CoA Mutase. <i>Biochemistry</i> , 2013, 52, 878-888.	2.5	18
12	Crystal structure and solution characterization of the activation domain of human methionine synthase. <i>FEBS Journal</i> , 2007, 274, 738-750.	4.7	16
13	Kinetic analysis of cytochrome P450 reductase from <i>Artemisia annua</i> reveals accelerated rates of NADPH-dependent flavin reduction. <i>FEBS Journal</i> , 2013, 280, 6627-6642.	4.7	14
14	Tryptophan 697 Modulates Hydride and Interflavin Electron Transfer in Human Methionine Synthase Reductase. <i>Biochemistry</i> , 2011, 50, 11131-11142.	2.5	13
15	ELDOR Spectroscopy Reveals that Energy Landscapes in Human Methionine Synthase Reductase are Extensively Remodelled Following Ligand and Partner Protein Binding. <i>ChemBioChem</i> , 2011, 12, 863-867.	2.6	13
16	Kinetic characterization of acetone monooxygenase from <i>Gordonia</i> sp. strain TY-5. <i>AMB Express</i> , 2018, 8, 181.	3.0	13
17	Role of histidine 225 in adenosylcobalamin-dependent ornithine 4,5-aminomutase. <i>Bioorganic Chemistry</i> , 2012, 40, 39-47.	4.1	12
18	Kinetic analysis of electron flux in cytochrome P450 reductases reveals differences in rate-determining steps in plant and mammalian enzymes. <i>Archives of Biochemistry and Biophysics</i> , 2015, 584, 107-115.	3.0	12

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19	Structural and Kinetic Insight into the Biosynthesis of H ₂ S and L-Lanthionine from L-Cysteine by a Pyridoxal Phosphate-Dependent Enzyme from <i>Fusobacterium nucleatum</i> . <i>Biochemistry</i> , 2019, 58, 3592-3603.	2.5	11
20	Aromatic substitution of the FAD ε-shielding tryptophan reveals its differential role in regulating electron flux in methionine synthase reductase and cytochrome P450 reductase. <i>FEBS Journal</i> , 2013, 280, 1460-1474.	4.7	7
21	Active site arginine controls the stereochemistry of hydride transfer in cyclohexanone monooxygenase. <i>Archives of Biochemistry and Biophysics</i> , 2018, 659, 47-56.	3.0	6
22	A Fold Type II PLP-Dependent Enzyme from <i>Fusobacterium nucleatum</i> Functions as a Serine Synthase and Cysteine Synthase. <i>Biochemistry</i> , 2021, 60, 524-536.	2.5	5
23	Isotope Effects for Deuterium Transfer and Mutagenesis of Tyr187 Provide Insight into Controlled Radical Chemistry in Adenosylcobalamin-Dependent Ornithine 4,5-Aminomutase. <i>Biochemistry</i> , 2014, 53, 5432-5443.	2.5	4
24	Optimal electrostatic interactions between substrate and protein are essential for radical chemistry in ornithine 4,5-aminomutase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1077-1084.	2.3	4
25	Active site variants provide insight into the nature of conformational changes that accompany the cyclohexanone monooxygenase catalytic cycle. <i>Archives of Biochemistry and Biophysics</i> , 2018, 654, 85-96.	3.0	4
26	Proximal FAD histidine residue influences interflavin electron transfer in cytochrome P450 reductase and methionine synthase reductase. <i>Archives of Biochemistry and Biophysics</i> , 2014, 547, 18-26.	3.0	3
27	Role of active site loop in coenzyme binding and flavin reduction in cytochrome P450 reductase. <i>Archives of Biochemistry and Biophysics</i> , 2016, 606, 111-119.	3.0	3
28	Structural insight into the high reduction potentials observed for <i>Fusobacterium nucleatum</i> flavodoxin. <i>Protein Science</i> , 2019, 28, 1460-1472.	7.6	3
29	S224 Presents a Catalytic Trade-off in PLP-Dependent L-Lanthionine Synthase from <i>Fusobacterium nucleatum</i> . <i>Biochemistry</i> , 2020, 59, 4250-4261.	2.5	2
30	Sequence Divergence in the Arginase Domain of Ornithine Decarboxylase/Arginase in <i>Fusobacteriaceae</i> Leads to Loss of Function in Oral Associated Species. <i>Biochemistry</i> , 2022, 61, 1378-1391.	2.5	2
31	Steady-state and pre-steady state kinetic analysis of ornithine 4,5-aminomutase. <i>Methods in Enzymology</i> , 2022, , 173-195.	1.0	0