

# Maria Antonietta Vanoni

## List of Publications by Year in descending order

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83  
papers

2,942  
citations

186265  
28  
h-index

182427  
51  
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86  
all docs

86  
docs citations

86  
times ranked

2842  
citing authors

#	ARTICLE	IF	CITATIONS
1	The denatured state of HIV-1 protease under native conditions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 96-109.	2.6	1
2	<i>Apis mellifera</i> RidA, a novel member of the canonical YigF/YER057c/UK114 imine deiminase superfamily of enzymes pre-empting metabolic damage. <i>Biochemical and Biophysical Research Communications</i> , 2022, 616, 70-75.	2.1	0
3	Using d- and l-Amino Acid Oxidases to Generate the Imino Acid Substrate to Measure the Activity of the Novel Rid (Enamine/Imine Deaminase) Class of Enzymes. <i>Methods in Molecular Biology</i> , 2021, 2280, 199-218.	0.9	1
4	Iron-sulfur flavoenzymes: the added value of making the most ancient redox cofactors and the versatile flavins work together. <i>Open Biology</i> , 2021, 11, 210010.	3.6	12
5	The structure of N184K amyloidogenic variant of gelsolin highlights the role of the H-bond network for protein stability and aggregation properties. <i>European Biophysics Journal</i> , 2020, 49, 11-19.	2.2	4
6	Two novel fish paralogs provide insights into the Rid family of imine deaminases active in pre-empting enamine/imine metabolic damage. <i>Scientific Reports</i> , 2020, 10, 10135.	3.3	4
7	Rational Redesign of Monoamine Oxidase A into a Dehydrogenase to Probe ROS in Cardiac Aging. <i>ACS Chemical Biology</i> , 2020, 15, 1795-1800.	3.4	12
8	Glutamine Synthetase 1 Increases Autophagy Lysosomal Degradation of Mutant Huntingtin Aggregates in Neurons, Ameliorating Motility in a Drosophila Model for Huntingtin's Disease. <i>Cells</i> , 2020, 9, 196.	4.1	18
9	Cryo-EM Structures of <i>Azospirillum brasilense</i> Glutamate Synthase in Its Oligomeric Assemblies. <i>Journal of Molecular Biology</i> , 2019, 431, 4523-4526.	4.2	4
10	Human MICAL1: Activation by the small GTPase Rab8 and small angle X-ray scattering studies on the oligomerization state of MICAL1 and its complex with Rab8. <i>Protein Science</i> , 2019, 28, 150-166.	7.6	7
11	Imine Deaminase Activity and Conformational Stability of UK114, the Mammalian Member of the Rid Protein Family Active in Amino Acid Metabolism. <i>International Journal of Molecular Sciences</i> , 2018, 19, 945.	4.1	16
12	Cold Denaturation of the HIV-1 Protease Monomer. <i>Biochemistry</i> , 2017, 56, 1029-1032.	2.5	7
13	Structure-function studies of MICAL, the unusual multidomain flavoenzyme involved in actin cytoskeleton dynamics. <i>Archives of Biochemistry and Biophysics</i> , 2017, 632, 118-141.	3.0	29
14	Genomic and functional analyses unveil the response to hyphal wall stress in <i>Candida albicans</i> cells lacking $\beta^2(1,3)$ -glucan remodeling. <i>BMC Genomics</i> , 2016, 17, 482.	2.8	8
15	B35...Glutamine synthetase-1 induces autophagy and neuronal survival in a drosophila model huntingtin's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A21.2-A21.	1.9	1
16	Properties and catalytic activities of MICAL1, the flavoenzyme involved in cytoskeleton dynamics, and modulation by its CH, LIM and C-terminal domains. <i>Archives of Biochemistry and Biophysics</i> , 2016, 593, 24-37.	3.0	28
17	Key Role of the Adenylate Moiety and Integrity of the Adenylate-Binding Site for the NAD <sup>+</sup> /H Binding to Mitochondrial Apoptosis-Inducing Factor. <i>Biochemistry</i> , 2015, 54, 6996-7009.	2.5	26
18	Glutamate synthase: A case-study for in silico drug screening on a complex iron-sulfur flavoenzyme?. <i>Gene</i> , 2015, 564, 233-235.	2.2	0

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19	The complex folding behavior of HIV-1-protease monomer revealed by optical-tweezer single-molecule experiments and molecular dynamics simulations. <i>Biophysical Chemistry</i> , 2014, 195, 32-42.	2.8	19
20	MICAL, the Flavoenzyme Participating in Cytoskeleton Dynamics. <i>International Journal of Molecular Sciences</i> , 2013, 14, 6920-6959.	4.1	26
21	A Single Tyrosine Hydroxyl Group Almost Entirely Controls the NADPH Specificity of <i>Plasmodium falciparum</i> Ferredoxin-NADP <sup>+</sup> Reductase. <i>Biochemistry</i> , 2012, 51, 3819-3826.	2.5	15
22	13 Glutamate synthase. , 2012, , 271-296.		1
23	Kinetic and spectroscopic characterization of the putative monooxygenase domain of human MICAL-1. <i>Archives of Biochemistry and Biophysics</i> , 2011, 515, 1-13.	3.0	26
24	Energy matters: Mitochondrial proteomics for biomedicine. <i>Proteomics</i> , 2011, 11, 657-674.	2.2	9
25	Kinetic and mechanistic characterization of <i>Mycobacterium tuberculosis</i> glutamyl-tRNA synthetase and determination of its oligomeric structure in solution. <i>FEBS Journal</i> , 2009, 276, 1398-1417.	4.7	23
26	Lactate dehydrogenation in flavocytochrome <i>b<sub>2</sub></i> . <i>FEBS Journal</i> , 2009, 276, 2368-2380.	4.7	18
27	<i>Plasmodium falciparum</i> Ferredoxin-NADP <sup>+</sup> Reductase His286 Plays a Dual Role in NADP(H) Binding and Catalysis. <i>Biochemistry</i> , 2009, 48, 9525-9533.	2.5	11
28	Structure-function studies of glutamate synthases: A class of self-regulated iron-sulfur flavoenzymes essential for nitrogen assimilation. <i>IUBMB Life</i> , 2008, 60, 287-300.	3.4	35
29	Molecular dynamics simulation of the interaction between the complex iron-sulfur flavoprotein glutamate synthase and its substrates. <i>Protein Science</i> , 2008, 13, 2979-2991.	7.6	8
30	The Subnanometer Resolution Structure of the Glutamate Synthase 1.2-MDa Hexamer by Cryoelectron Microscopy and Its Oligomerization Behavior in Solution. <i>Journal of Biological Chemistry</i> , 2008, 283, 8237-8249.	3.4	30
31	Activation and Coupling of the Glutaminase and Synthase Reaction of Glutamate Synthase Is Mediated by E1013 of the Ferredoxin-Dependent Enzyme, Belonging to Loop 4 of the Synthase Domain. <i>Biochemistry</i> , 2007, 46, 4473-4485.	2.5	10
32	Does Negative Hyperconjugation Assist Enzymatic Dehydrogenations?. <i>ChemPhysChem</i> , 2007, 8, 1283-1288.	2.1	8
33	Role of the His57 <sup>+</sup> Glu214 Ionic Couple Located in the Active Site of <i>Mycobacterium tuberculosis</i> FprA,. <i>Biochemistry</i> , 2006, 45, 8712-8720.	2.5	9
34	8 Demethylation pathways for histone methyllysine residues. <i>The Enzymes</i> , 2006, 24, 229-242.	1.7	1
35	Structure-function studies on the complex iron-sulfur flavoprotein glutamate synthase: the key enzyme of ammonia assimilation. <i>Photosynthesis Research</i> , 2005, 83, 219-238.	2.9	57
36	Human Histone Demethylase LSD1 Reads the Histone Code. <i>Journal of Biological Chemistry</i> , 2005, 280, 41360-41365.	3.4	223

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37	Histone demethylation catalysed by LSD1 is a flavin-dependent oxidative process. <i>FEBS Letters</i> , 2005, 579, 2203-2207.	2.8	243
38	Structure-function studies on the iron-sulfur flavoenzyme glutamate synthase: an unexpectedly complex self-regulated enzyme. <i>Archives of Biochemistry and Biophysics</i> , 2005, 433, 193-211.	3.0	49
39	The unexpected structural role of glutamate synthase [4Fe-4S] <sup>+1,+2</sup> clusters as demonstrated by site-directed mutagenesis of conserved C residues at the N-terminus of the enzyme I <sup>2</sup> subunit. <i>Archives of Biochemistry and Biophysics</i> , 2005, 436, 355-366.	3.0	10
40	Glutamate synthase: a fascinating pathway from L-glutamine to L-glutamate. <i>Cellular and Molecular Life Sciences</i> , 2004, 61, 669-681.	5.4	79
41	Synthesis and biological evaluation of new amino acids structurally related to the antitumor agent acivicin. <i>Il Farmaco</i> , 2003, 58, 683-690.	0.9	16
42	Cloning and expression in <i>Escherichia coli</i> of the gene encoding <i>Streptomyces</i> PMF PLD, a phospholipase D with high transphosphatidylase activity. <i>Enzyme and Microbial Technology</i> , 2003, 33, 676-688.	3.2	37
43	The Active Conformation of Glutamate Synthase and its Binding to Ferredoxin. <i>Journal of Molecular Biology</i> , 2003, 330, 113-128.	4.2	85
44	Quaternary Structure of <i>Azospirillum brasilense</i> NADPH-dependent Glutamate Synthase in Solution as Revealed by Synchrotron Radiation X-ray Scattering. <i>Journal of Biological Chemistry</i> , 2003, 278, 29933-29939.	3.4	21
45	Structural Studies on the Synchronization of Catalytic Centers in Glutamate Synthase. <i>Journal of Biological Chemistry</i> , 2002, 277, 24579-24583.	3.4	68
46	First-Principles Molecular Dynamics Investigation of the $\alpha$ -Amino Acid Oxidative Half-Reaction Catalyzed by the Flavoenzyme $\alpha$ -Amino Acid Oxidase. <i>Biochemistry</i> , 2002, 41, 14111-14121.	2.5	28
47	Properties of the Recombinant Ferredoxin-Dependent Glutamate Synthase of <i>Synechocystis</i> PCC6803. Comparison with the <i>Azospirillum brasilense</i> NADPH-Dependent Enzyme and Its Isolated I <sup>±</sup> Subunit. <i>Biochemistry</i> , 2002, 41, 8120-8133.	2.5	41
48	Determination of the Midpoint Potential of the FAD and FMN Flavin Cofactors and of the 3Fe-4S Cluster of Glutamate Synthase. <i>Biochemistry</i> , 2001, 40, 5533-5541.	2.5	30
49	Influence of divalent cations on the catalytic properties and secondary structure of unadenylylated glutamine synthetase from <i>Azospirillum brasilense</i> . <i>BioMetals</i> , 2001, 14, 13-22.	4.1	16
50	Purification of the Aldehyde Oxidase Homolog 1 (AOH1) Protein and Cloning of the AOH1 and Aldehyde Oxidase Homolog 2 (AOH2) Genes. <i>Journal of Biological Chemistry</i> , 2001, 276, 46347-46363.	3.4	43
51	Functional properties of recombinant <i>Azospirillum brasilense</i> glutamate synthase, a complex iron-sulfur flavoprotein. <i>FEBS Journal</i> , 2000, 267, 2720-2730.	0.2	22
52	On the iron-sulfur clusters in the complex redox enzyme dihydropyrimidine dehydrogenase. <i>FEBS Journal</i> , 2000, 267, 3640-3646.	0.2	35
53	Cross-Talk and Ammonia Channeling between Active Centers in the Unexpected Domain Arrangement of Glutamate Synthase. <i>Structure</i> , 2000, 8, 1299-1308.	3.3	86
54	Glutamate Synthase: Identification of the NADPH-Binding Site by Site-Directed Mutagenesis. <i>Biochemistry</i> , 2000, 39, 727-735.	2.5	20

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55	Glutamate synthase: a complex iron-sulfur flavoprotein. Cellular and Molecular Life Sciences, 1999, 55, 617-638.	5.4	113
56	Identifying and Quantitating FAD and FMN in Simple and in Iron-Sulfur-Containing Flavoproteins. , 1999, 131, 9-24.		115
57	Porcine Recombinant Dihydropyrimidine Dehydrogenase:â€‰ Comparison of the Spectroscopic and Catalytic Properties of the Wild-Type and C671A Mutant Enzymes. Biochemistry, 1998, 37, 17598-17609.	2.5	34
58	Reaction of the NAD(P)H:Flavin Oxidoreductase from Escherichia coli with NADPH and Riboflavin:Â Identification of Intermediatesâ€‰. Biochemistry, 1998, 37, 11879-11887.	2.5	28
59	The Recombinant Î± Subunit of Glutamate Synthase:â€‰ Spectroscopic and Catalytic Properties. Biochemistry, 1998, 37, 1828-1838.	2.5	37
60	Active Site Plasticity in d-Amino Acid Oxidase:Â A Crystallographic Analysisâ€‰. Biochemistry, 1997, 36, 5853-5860.	2.5	89
61	Limited Proteolysis and X-ray Crystallography Reveal the Origin of Substrate Specificity and of the Rate-Limiting Product Release during Oxidation of d-Amino Acids Catalyzed by Mammalian d-Amino Acid Oxidaseâ€‰. Biochemistry, 1997, 36, 5624-5632.	2.5	46
62	Structure of d-amino acid oxidase: new insights from an old enzyme. Current Opinion in Structural Biology, 1997, 7, 804-810.	5.7	30
63	Crystal structure of D-amino acid oxidase: a case of active site mirror-image convergent evolution with flavocytochrome b2.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7496-7501.	7.1	291
64	Glutamate synthase: A complex iron-sulphur flavoprotein. Biochemical Society Transactions, 1996, 24, 95-99.	3.4	14
65	Properties of the Recombinant beta Subunit of Glutamate Synthase. FEBS Journal, 1996, 236, 937-946.	0.2	29
66	Involvement of Serine 96 in the Catalytic Mechanism of Ferredoxin-NADP+ Reductase: Structure-Function Relationship As Studied by Site-Directed Mutagenesis and X-ray Crystallography. Biochemistry, 1995, 34, 8371-8379.	2.5	70
67	Interdomain Loops and Conformational Changes of Glutamate Synthase as Detected by Limited Proteolysis. FEBS Journal, 1994, 226, 505-515.	0.2	9
68	The pH-Dependent Behavior of Catalytic Activities of Azospirillum brasilense Glutamate Synthase and Iodoacetamide Modification of the Enzyme Provide Evidence for a Catalytic Cys-His Ion Pair. Archives of Biochemistry and Biophysics, 1994, 309, 222-230.	3.0	15
69	Glutamate synthase from Azospirillum brasilense: structural and mechanistic studies. , 1994, , 667-674.		1
70	Characterization of the flavins and the iron-sulfur centers of glutamate synthase from Azospirillum brasilense by absorption, circular dichroism, and electron paramagnetic resonance spectroscopies. Biochemistry, 1992, 31, 4613-4623.	2.5	69
71	Mechanistic studies on Azospirillum brasilense glutamate synthase. Biochemistry, 1991, 30, 11478-11484.	2.5	29
72	The overexpression of the 3â€‰ terminal region of the CDC25 gene of Saccharomyces cerevisiae causes growth inhibition and alteration of purine nucleotide pools. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1991, 1089, 206-212.	2.4	10

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73	STEREOCHEMISTRY OF REDUCTION OF METHYLENETETRAHYDROFOLATE TO METHYLTETRAHYDROFOLATE CATALYZED BY MAMMALIAN METHYLENETETRAHYDROFOLATE REDUCTASE. , 1991, , 815-818.		0
74	The kinetic mechanism of the reactions catalyzed by the glutamate synthase from <i>Azospirillum brasilense</i> . FEBS Journal, 1991, 202, 181-189.	0.2	29
75	Structural studies on the subunits of glutamate synthase from <i>Azospirillum brasilense</i> . BBA - Proteins and Proteomics, 1990, 1039, 374-377.	2.1	17
76	Stereochemistry of reduction of methylenetetrahydrofolate to methyltetrahydrofolate catalyzed by pig liver methylenetetrahydrofolate reductase. Journal of the American Chemical Society, 1990, 112, 3987-3992.	13.7	21
77	Glutathione reductase: comparison of steady-state and rapid reaction primary kinetic isotope effects exhibited by the yeast, spinach, and <i>Escherichia coli</i> enzymes. Biochemistry, 1990, 29, 5790-5796.	2.5	55
78	Glutathione reductase: solvent equilibrium and kinetic isotope effects. Biochemistry, 1988, 27, 7091-7096.	2.5	59
79	Purification and properties of d-amino-acid oxidase, an inducible flavoenzyme from <i>Rhodotorula gracilis</i> . BBA - Proteins and Proteomics, 1987, 914, 136-142.	2.1	37
80	Phenylglyoxal modification of arginines in mammalian D-amino-acid oxidase. FEBS Journal, 1987, 167, 261-267.	0.2	13
81	Kinetic isotope effects on the oxidation of reduced nicotinamide adenine dinucleotide phosphate by the flavoprotein methylenetetrahydrofolate reductase. Biochemistry, 1984, 23, 5272-5279.	2.5	24
82	Correction - Kinetic Isotope Effects on the Oxidation of Reduced Nicotinamide Adenine Dinucleotide Phosphate by the Flavoprotein Methylenetetrahydrofolate Reductase. Biochemistry, 1984, 23, 6925-6925.	2.5	0
83	d-Amino acid oxidase activity in the yeast <i>Rhodotorula gracilis</i> . FEMS Microbiology Letters, 1982, 15, 27-31.	1.8	22