

# Marialaura Marchetti

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

435  
citations

759233  
12  
h-index

752698  
20  
g-index

27  
all docs

27  
docs citations

27  
times ranked

658  
citing authors

#	ARTICLE	IF	CITATIONS
1	The NMDA receptor activation by $\alpha$ -serine and glycine is controlled by an astrocytic Phgdh-dependent serine shuttle. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20736-20742.	7.1	89
2	Iron Metabolism at the Interface between Host and Pathogen: From Nutritional Immunity to Antibacterial Development. International Journal of Molecular Sciences, 2020, 21, 2145.	4.1	42
3	$\alpha$ ATP binding to human serine racemase is cooperative and modulated by glycine. FEBS Journal, 2013, 280, 5853-5863.	4.7	33
4	The Energy Landscape of Human Serine Racemase. Frontiers in Molecular Biosciences, 2018, 5, 112.	3.5	28
5	Expanding the chemical space of human serine racemase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4297-4303.	2.2	22
6	Regulation of human serine racemase activity and dynamics by halides, ATP and malonate. Amino Acids, 2015, 47, 163-173.	2.7	21
7	Catalysis and Structure of Zebrafish Urate Oxidase Provide Insights into the Origin of Hyperuricemia in Hominoids. Scientific Reports, 2016, 6, 38302.	3.3	21
8	Interaction of human hemoglobin and semi-hemoglobins with the Staphylococcus aureus hemophore IsdB: a kinetic and mechanistic insight. Scientific Reports, 2019, 9, 18629.	3.3	21
9	Synthesis and photophysical properties of isocoumarin-based D- $\pi$ -A systems. Dyes and Pigments, 2020, 173, 107917.	3.7	18
10	Investigational Studies on a Hit Compound Cyclopropane- $\alpha$ -Carboxylic Acid Derivative Targeting $\alpha$ -Acetylserine Sulfhydrylase as a Colistin Adjuvant. ACS Infectious Diseases, 2021, 7, 281-292.	3.8	13
11	High- and low-affinity PEGylated hemoglobin-based oxygen carriers: Differential oxidative stress in a Guinea pig transfusion model. Free Radical Biology and Medicine, 2018, 124, 299-310.	2.9	13
12	Cyclopropane derivatives as potential human serine racemase inhibitors: unveiling novel insights into a difficult target. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 645-652.	5.2	12
13	Glutamine 89 is a key residue in the allosteric modulation of human serine racemase activity by ATP. Scientific Reports, 2018, 8, 9016.	3.3	12
14	More than a Confinement: $\alpha$ -Soft and $\alpha$ -Hard Enzyme Entrapment Modulates Biological Catalyst Function. Catalysts, 2019, 9, 1024.	3.5	12
15	Enzyme Replacement Therapy for Genetic Disorders Associated with Enzyme Deficiency. Current Medicinal Chemistry, 2022, 29, 489-525.	2.4	12
16	A Trivalent Enzymatic System for Uricolytic Therapy of HPRT Deficiency and Lesch-Nyhan Disease. Pharmaceutical Research, 2017, 34, 1477-1490.	3.5	11
17	Combination of SAXS and Protein Painting Discloses the Three-Dimensional Organization of the Bacterial Cysteine Synthase Complex, a Potential Target for Enhancers of Antibiotic Action. International Journal of Molecular Sciences, 2019, 20, 5219.	4.1	9
18	The renal phenotype of allopurinol-treated HPRT-deficient mouse. PLoS ONE, 2017, 12, e0173512.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Quenching of tryptophan fluorescence in a highly scattering solution: Insights on protein localization in a lung surfactant formulation. PLoS ONE, 2018, 13, e0201926.	2.5	8
20	Fluorescence quantification of allantoin in biological samples by cap-immobilized allantoinase/resorcinol assay. Sensors and Actuators B: Chemical, 2018, 255, 2820-2828.	7.8	7
21	Immobilization of Allantoinase for the Development of an Optical Biosensor of Oxidative Stress States. Sensors, 2020, 20, 196.	3.8	6
22	Cryo-EM structures of staphylococcal IsdB bound to human hemoglobin reveal the process of heme extraction. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2116708119.	7.1	6
23	Diatom Allantoin Synthase Provides Structural Insights into Natural Fusion Protein Therapeutics. ACS Chemical Biology, 2018, 13, 2237-2246.	3.4	5
24	A Competitive O-Acetylserine Sulfhydrylase Inhibitor Modulates the Formation of Cysteine Synthase Complex. Catalysts, 2021, 11, 700.	3.5	4
25	Revealing the Dynamic Allosteric Changes Required for Formation of the Cysteine Synthase Complex by Hydrogen-Deuterium Exchange MS. Molecular and Cellular Proteomics, 2021, 20, 100098.	3.8	1
26	Inhibitors of O-Acetylserine Sulfhydrylase with a Cyclopropane-Carboxylic Acid Scaffold Are Effective Colistin Adjuvants in Gram Negative Bacteria. Pharmaceuticals, 2022, 15, 766.	3.8	1
27	Exploring the chemical space around N-(5-nitrothiazol-2-yl)-1,2,3-thiadiazole-4-carboxamide, a hit compound with serine acetyltransferase (SAT) inhibitory properties. Results in Chemistry, 2022, 4, 100443.	2.0	0