

# Leonardo Sorci

## List of Publications by Year in descending order

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35  
papers

1,458  
citations

331670

21  
h-index

395702

33  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1975  
citing authors

#	ARTICLE	IF	CITATIONS
1	NAD <sup>+</sup> and axon degeneration revisited: Nmnat1 cannot substitute for Wlds to delay Wallerian degeneration. <i>Cell Death and Differentiation</i> , 2007, 14, 116-127.	11.2	125
2	Identification of a novel human nicotinamide mononucleotide adenylyltransferase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 835-840.	2.1	119
3	Small extracellular vesicles deliver miR-21 and miR-217 as pro-apoptosis effectors to endothelial cells. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1725285.	12.2	104
4	Diverse biological effects of the essential oil from Iranian <i>Trachyspermum ammi</i> . <i>Arabian Journal of Chemistry</i> , 2016, 9, 775-786.	4.9	91
5	Initial-Rate Kinetics of Human NMN-Adenylyltransferases: Substrate and Metal Ion Specificity, Inhibition by Products and Multisubstrate Analogues, and Isozyme Contributions to NAD <sup>+</sup> Biosynthesis. <i>Biochemistry</i> , 2007, 46, 4912-4922.	2.5	74
6	Nicotinamide mononucleotide synthetase is the key enzyme for an alternative route of NAD biosynthesis in <i>Francisella tularensis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3083-3088.	7.1	70
7	Transcriptional regulation of NAD metabolism in bacteria: genomic reconstruction of NiaR (YrxA) regulon. <i>Nucleic Acids Research</i> , 2008, 36, 2032-2046.	14.5	67
8	Metabolic and Bactericidal Effects of Targeted Suppression of NadD and NadE Enzymes in Mycobacteria. <i>MBio</i> , 2014, 5, .	4.1	66
9	Targeting NAD Biosynthesis in Bacterial Pathogens: Structure-Based Development of Inhibitors of Nicotinate Mononucleotide Adenylyltransferase NadD. <i>Chemistry and Biology</i> , 2009, 16, 849-861.	6.0	63
10	Regulation of NAD biosynthetic enzymes modulates NAD-sensing processes to shape mammalian cell physiology under varying biological cues. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1138-1149.	2.3	62
11	Identification of Nicotinamide Mononucleotide Deamidase of the Bacterial Pyridine Nucleotide Cycle Reveals a Novel Broadly Conserved Amidohydrolase Family. <i>Journal of Biological Chemistry</i> , 2011, 286, 40365-40375.	3.4	54
12	Characterization of Mycobacterium tuberculosis NAD Kinase: Functional Analysis of the Full-Length Enzyme by Site-Directed Mutagenesis. <i>Biochemistry</i> , 2004, 43, 7610-7617.	2.5	53
13	NAD-Biosynthetic and Consuming Enzymes as Central Players of Metabolic Regulation of Innate and Adaptive Immune Responses in Cancer. <i>Frontiers in Immunology</i> , 2019, 10, 1720.	4.8	52
14	Quinolinate Salvage and Insights for Targeting NAD Biosynthesis in Group A Streptococci. <i>Journal of Bacteriology</i> , 2013, 195, 726-732.	2.2	50
15	Extracellular nicotinate phosphoribosyltransferase binds Toll like receptor 4 and mediates inflammation. <i>Nature Communications</i> , 2019, 10, 4116.	12.8	47
16	Genomics and Enzymology of NAD Biosynthesis. , 2010, , 213-257.		46
17	Genomics-driven Reconstruction of Acinetobacter NAD Metabolism. <i>Journal of Biological Chemistry</i> , 2010, 285, 39490-39499.	3.4	36
18	Glutamine versus Ammonia Utilization in the NAD Synthetase Family. <i>PLoS ONE</i> , 2012, 7, e39115.	2.5	36

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19	Bifunctional NMN Adenylyltransferase/ADP-Ribose Pyrophosphatase: Structure and Function in Bacterial NAD Metabolism. <i>Structure</i> , 2008, 16, 196-209.	3.3	30
20	Complexes of Bacterial Nicotinate Mononucleotide Adenylyltransferase with Inhibitors: Implication for Structure-Based Drug Design and Improvement. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 5229-5239.	6.4	27
21	Mycobacterial Nicotinate Mononucleotide Adenylyltransferase. <i>Journal of Biological Chemistry</i> , 2015, 290, 7693-7706.	3.4	25
22	Mexican sunflower ( <i>Tithonia diversifolia</i> , Asteraceae) volatile oil as a selective inhibitor of <i>Staphylococcus aureus</i> nicotinate mononucleotide adenylyltransferase (NadD). <i>Industrial Crops and Products</i> , 2016, 85, 181-189.	5.2	24
23	Biological Activities of the Essential Oil from <i>Erigeron floribundus</i> . <i>Molecules</i> , 2016, 21, 1065.	3.8	23
24	Synthesis and Degradation of Adenosine 5â€™-Tetraphosphate by Nicotinamide and Nicotinate Phosphoribosyltransferases. <i>Cell Chemical Biology</i> , 2017, 24, 553-564.e4.	5.2	17
25	Novel Antimycobacterial Compounds Suppress NAD Biogenesis by Targeting a Unique Pocket of NaMN Adenylyltransferase. <i>ACS Chemical Biology</i> , 2019, 14, 949-958.	3.4	15
26	Enzymology of extracellular NAD metabolism. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3317-3331.	5.4	15
27	Genomics-Guided Analysis of NAD Recycling Yields Functional Elucidation of COG1058 as a New Family of Pyrophosphatases. <i>PLoS ONE</i> , 2013, 8, e65595.	2.5	14
28	NAD homeostasis in the bacterial response to DNA/RNA damage. <i>DNA Repair</i> , 2014, 23, 17-26.	2.8	11
29	Functional Characterization of COG1713 (YqeK) as a Novel Diadenosine Tetraphosphate Hydrolase Family. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	11
30	Molecular insights into the interaction between human nicotinamide phosphoribosyltransferase and Toll-like receptor 4. <i>Journal of Biological Chemistry</i> , 2022, 298, 101669.	3.4	10
31	Inhibition of the NAD salvage pathway in schistosomes impairs metabolism, reproduction, and parasite survival. <i>PLoS Pathogens</i> , 2020, 16, e1008539.	4.7	7
32	Characterization of bacterial NMN deamidase as a Ser/Lys hydrolase expands diversity of serine amidohydrolases. <i>FEBS Letters</i> , 2014, 588, 1016-1023.	2.8	6
33	SYNTHESIS AND BIOLOGICAL EVALUATION OF NAD ANALOGS AS HUMAN PYRIDINE NUCLEOTIDE ADENYLYLTRANSFERASE INHIBITORS. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 477-479.	1.1	4
34	The Prospective Synergy of Antitubercular Drugs With NAD Biosynthesis Inhibitors. <i>Frontiers in Microbiology</i> , 2020, 11, 634640.	3.5	4
35	<i>S. pyogenes</i> is reliant on salvage of host pyridine precursors for NAD synthesis: implications for pathogenesis and antibacterial intervention. <i>FASEB Journal</i> , 2012, 26, 978.11.	0.5	0