

# Marie E Migaud

## List of Publications by Year in descending order

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66  
papers

3,473  
citations

236912

25  
h-index

149686

56  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Administration of Nicotinamide Mononucleotide Mitigates Age-Associated Physiological Decline in Mice. <i>Cell Metabolism</i> , 2016, 24, 795-806.	16.2	552
2	Nicotinamide riboside is uniquely and orally bioavailable in mice and humans. <i>Nature Communications</i> , 2016, 7, 12948.	12.8	498
3	Loss of NAD Homeostasis Leads to Progressive and Reversible Degeneration of Skeletal Muscle. <i>Cell Metabolism</i> , 2016, 24, 269-282.	16.2	273
4	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. <i>Nature Communications</i> , 2016, 7, 13103.	12.8	261
5	Slc12a8 is a nicotinamide mononucleotide transporter. <i>Nature Metabolism</i> , 2019, 1, 47-57.	11.9	183
6	SLC25A51 is a mammalian mitochondrial NAD <sup>+</sup> transporter. <i>Nature</i> , 2020, 588, 174-179.	27.8	158
7	Bacteria Boost Mammalian Host NAD Metabolism by Engaging the Deamidated Biosynthesis Pathway. <i>Cell Metabolism</i> , 2020, 31, 564-579.e7.	16.2	130
8	Nicotinamide adenine dinucleotide is transported into mammalian mitochondria. <i>ELife</i> , 2018, 7, .	6.0	111
9	Nicotinamide riboside kinases display redundancy in mediating nicotinamide mononucleotide and nicotinamide riboside metabolism in skeletal muscle cells. <i>Molecular Metabolism</i> , 2017, 6, 819-832.	6.5	96
10	Pharmacological bypass of NAD <sup>+</sup> salvage pathway protects neurons from chemotherapy-induced degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10654-10659.	7.1	92
11	Nicotinamide Riboside Is a Major NAD <sup>+</sup> Precursor Vitamin in Cow Milk. <i>Journal of Nutrition</i> , 2016, 146, 957-963.	2.9	90
12	A reduced form of nicotinamide riboside defines a new path for NAD <sup>+</sup> biosynthesis and acts as an orally bioavailable NAD <sup>+</sup> precursor. <i>Molecular Metabolism</i> , 2019, 30, 192-202.	6.5	89
13	Generation, Release, and Uptake of the NAD Precursor Nicotinic Acid Riboside by Human Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 27124-27137.	3.4	68
14	NAD <sup>+</sup> flux is maintained in aged mice despite lower tissue concentrations. <i>Cell Systems</i> , 2021, 12, 1160-1172.e4.	6.2	51
15	Maternal Nicotinamide Riboside Enhances Postpartum Weight Loss, Juvenile Offspring Development, and Neurogenesis of Adult Offspring. <i>Cell Reports</i> , 2019, 26, 969-983.e4.	6.4	49
16	The chemistry of the vitamin B3 metabolome. <i>Biochemical Society Transactions</i> , 2019, 47, 131-147.	3.4	48
17	Formulation of Antimicrobial Tobramycin Loaded PLGA Nanoparticles via Complexation with AOT. <i>Journal of Functional Biomaterials</i> , 2019, 10, 26.	4.4	43
18	Metabolomics to Predict Antiviral Drug Efficacy in COVID-19. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 396-398.	2.9	40

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19	BST1 regulates nicotinamide riboside metabolism via its glycohydrolase and base-exchange activities. <i>Nature Communications</i> , 2021, 12, 6767.	12.8	40
20	Overcoming hydrolytic sensitivity and low solubility of phosphitylation reagents by combining ionic liquids with mechanochemistry. <i>Chemical Communications</i> , 2011, 47, 5846.	4.1	37
21	Potentiating the Anticancer Properties of Bisphosphonates by Nanocomplexation with the Cationic Amphipathic Peptide, RALA. <i>Molecular Pharmaceutics</i> , 2016, 13, 1217-1228.	4.6	34
22	Alginate/Chitosan Particle-Based Drug Delivery Systems for Pulmonary Applications. <i>Pharmaceutics</i> , 2019, 11, 379.	4.5	34
23	Rapid synthesis of nucleotide pyrophosphate linkages in a ball mill. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 6496.	2.8	33
24	Degradation of Extracellular NAD <sup>+</sup> Intermediates in Cultures of Human HEK293 Cells. <i>Metabolites</i> , 2019, 9, 293.	2.9	32
25	Equilibrative Nucleoside Transporters Mediate the Import of Nicotinamide Riboside and Nicotinic Acid Riboside into Human Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1391.	4.1	32
26	Temporal dynamics of base excision/single-strand break repair protein complex assembly/disassembly are modulated by the PARP/NAD <sup>+</sup> /SIRT6 axis. <i>Cell Reports</i> , 2021, 37, 109917.	6.4	28
27	Syntheses and chemical properties of $\hat{1}^2$ -nicotinamide riboside and its analogues and derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 401-430.	2.2	26
28	NAD Metabolome Analysis in Human Cells Using <sup>1</sup> H NMR Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3906.	4.1	24
29	Selective synthesis of chlorophosphoramidites using ionic liquids. <i>Green Chemistry</i> , 2009, 11, 1391.	9.0	18
30	An abundant biliary metabolite derived from dietary omega-3 polyunsaturated fatty acids regulates triglycerides. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	18
31	Dihyronicotinamide riboside promotes cell-specific cytotoxicity by tipping the balance between metabolic regulation and oxidative stress. <i>PLoS ONE</i> , 2020, 15, e0242174.	2.5	18
32	1,2-Cyclic sulfite and sulfate furanoside diesters: improved syntheses and stability. <i>Tetrahedron</i> , 2009, 65, 6341-6347.	1.9	17
33	Dihydroxyacetone Exposure Alters NAD(P)H and Induces Mitochondrial Stress and Autophagy in HEK293T Cells. <i>Chemical Research in Toxicology</i> , 2019, 32, 1722-1731.	3.3	17
34	Nucleoside phosphitylation using ionic liquid stabilised phosphorodiamidites and mechanochemistry. <i>Chemical Communications</i> , 2012, 48, 11969.	4.1	15
35	The Biochemical Pathways of Nicotinamide-Derived Pyridones. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1145.	4.1	14
36	Alkyloxycarbonyl group migration in furanosides. <i>Tetrahedron</i> , 2012, 68, 6701-6711.	1.9	13

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37	Scalable syntheses of traceable ribosylated NAD <sup>+</sup> precursors. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8716-8720.	2.8	13
38	A Method to Monitor the NAD <sup>+</sup> Metabolome—From Mechanistic to Clinical Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10598.	4.1	13
39	Chemical and Biochemical Reactivity of the Reduced Forms of Nicotinamide Riboside. <i>ACS Chemical Biology</i> , 2021, 16, 604-614.	3.4	12
40	Enzymatic and Chemical Syntheses of Vacor Analogs of Nicotinamide Riboside, NMN and NAD. <i>Biomolecules</i> , 2021, 11, 1044.	4.0	12
41	Exploiting the use of ionic liquids to access phosphorodiamidites. <i>RSC Advances</i> , 2012, 2, 2988.	3.6	11
42	A metabolomic endotype of bioenergetic dysfunction predicts mortality in critically ill patients with acute respiratory failure. <i>Scientific Reports</i> , 2021, 11, 10515.	3.3	9
43	Synthesis of Simple Adenosine Diphosphate Ribose Analogues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2008, 27, 1127-1143.	1.1	8
44	NAD <sup>+</sup> bioavailability mediates PARG inhibition-induced replication arrest, intra S-phase checkpoint and apoptosis in glioma stem cells. <i>NAR Cancer</i> , 2021, 3, zcab044.	3.1	8
45	A stereocontrolled method for the synthesis of d- and l-2-deoxy-C-nucleosides using an intramolecular Sakurai-type cyclisation reaction. <i>Chemical Communications</i> , 2010, 46, 4538.	4.1	7
46	Synthesis of alkylcarbonate analogs of O-acetyl-ADP-ribose. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 5702.	2.8	7
47	Facile access to new C-glycosides and C-glycoside scaffolds incorporating functionalised aromatic moieties. <i>Carbohydrate Research</i> , 2015, 402, 25-34.	2.3	7
48	Exogenous exposure to dihydroxyacetone mimics high fructose induced oxidative stress and mitochondrial dysfunction. <i>Environmental and Molecular Mutagenesis</i> , 2021, 62, 185-202.	2.2	7
49	Dihydronicotinamide Riboside Is a Potent NAD <sup>+</sup> Precursor Promoting a Pro-Inflammatory Phenotype in Macrophages. <i>Frontiers in Immunology</i> , 2022, 13, 840246.	4.8	7
50	Nicotinamide Riboside and Dihydronicotinic Acid Riboside Synergistically Increase Intracellular NAD <sup>+</sup> by Generating Dihydronicotinamide Riboside. <i>Nutrients</i> , 2022, 14, 2752.	4.1	7
51	Stable expression and purification of a functional processed Fab $\epsilon$ 2 fragment from a single nascent polypeptide in CHO cells expressing the mCAT-1 retroviral receptor. <i>Journal of Immunological Methods</i> , 2011, 372, 30-41.	1.4	6
52	Novel synthetic route to the C-nucleoside, 2-deoxy benzamide riboside. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5204-5207.	2.2	6
53	Reactivity of 1,2-cyclic sulfite xylosides towards nucleophiles. <i>Tetrahedron</i> , 2009, 65, 8858-8862.	1.9	5
54	Synthesis of an analogue of the bisphosphonate drug Ibandronate for targeted drug-delivery therapeutic strategies. <i>New Journal of Chemistry</i> , 2010, 34, 949.	2.8	5

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55	Probing myo-inositol 1-phosphate synthase with multisubstrate adducts. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9601.	2.8	5
56	Nicotinamide riboside amino acid conjugates that are stable to purine nucleoside phosphorylase. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2877-2885.	2.8	5
57	Investigations into the synthesis of a nucleotide dimer via mechanochemical phosphoramidite chemistry. <i>Royal Society Open Science</i> , 2021, 8, 201703.	2.4	5
58	A one pot three-step process for the synthesis of an array of arylated benzimidazoribosyl nucleosides. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2821.	2.8	4
59	Solventless synthesis of acyl phosphoramidates, precursors to masked bisphosphonates. <i>Chemical Communications</i> , 2015, 51, 11088-11091.	4.1	4
60	Controlling chlorination versus cyclosulfonation of cis-diols using ionic liquid solvents. <i>New Journal of Chemistry</i> , 2012, 36, 2316.	2.8	3
61	Applications of Mechanochemistry for the Synthesis of DNA on Ionic Liquid Supports. <i>Chemistry Methods</i> , 2021, 1, 382-388.	3.8	3
62	Synthesis of Mixed Dinucleotides by Mechanochemistry. <i>Molecules</i> , 2022, 27, 3229.	3.8	3
63	Solubility study of tobramycin in room temperature ionic liquids: an experimental and computational based study. <i>RSC Advances</i> , 2016, 6, 107214-107218.	3.6	2
64	Solution Chemistry of Dihydroxyacetone and Synthesis of Monomeric Dihydroxyacetone. <i>Chemical Research in Toxicology</i> , 2022, , .	3.3	1
65	Nicotinamide Benzimidazole Dinucleotides, Non-Cyclisable Analogues of NAD+. <i>Synlett</i> , 2014, 25, 2331-2336.	1.8	0
66	Solvent-Assisted Mechanochemical Synthesis of a Nucleotide Dimer. <i>Current Protocols</i> , 2022, 2, e418.	2.9	0