

# Takashi Nakagawa

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

6,271  
citations

94433

37  
h-index

69250

77  
g-index

88  
all docs

88  
docs citations

88  
times ranked

8127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclophilin D-dependent mitochondrial permeability transition regulates some necrotic but not apoptotic cell death. <i>Nature</i> , 2005, 434, 652-658.	27.8	1,464
2	SIRT5 Deacetylates Carbamoyl Phosphate Synthetase 1 and Regulates the Urea Cycle. <i>Cell</i> , 2009, 137, 560-570.	28.9	677
3	Sirtuins at a glance. <i>Journal of Cell Science</i> , 2011, 124, 833-838.	2.0	262
4	NAD metabolism: Implications in aging and longevity. <i>Ageing Research Reviews</i> , 2018, 47, 1-17.	10.9	179
5	CD206+ M2-like macrophages regulate systemic glucose metabolism by inhibiting proliferation of adipocyte progenitors. <i>Nature Communications</i> , 2017, 8, 286.	12.8	178
6	SIRT1-Mediated eNAMPT Secretion from Adipose Tissue Regulates Hypothalamic NAD <sup>+</sup> and Function in Mice. <i>Cell Metabolism</i> , 2015, 21, 706-717.	16.2	172
7	Mitochondrial membrane permeability transition and cell death. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1297-1300.	1.0	161
8	NMNAT1 inhibits axon degeneration via blockade of SARM1-mediated NAD <sup>+</sup> depletion. <i>ELife</i> , 2016, 5, .	6.0	159
9	NAD Metabolism in Cancer Therapeutics. <i>Frontiers in Oncology</i> , 2018, 8, 622.	2.8	158
10	Implications of altered NAD metabolism in metabolic disorders. <i>Journal of Biomedical Science</i> , 2019, 26, 34.	7.0	139
11	Compositional mantle layering revealed by slab stagnation at ~1000-km depth. <i>Science Advances</i> , 2015, 1, e1500815.	10.3	122
12	Squamous Cell Carcinoma of the External Auditory Canal and Middle Ear: An Operation Combined with Preoperative Chemoradiotherapy and a Free Surgical Margin. <i>Otology and Neurotology</i> , 2006, 27, 242-249.	1.3	118
13	The influence of MORB and harzburgite composition on thermo-chemical mantle convection in a 3-D spherical shell with self-consistently calculated mineral physics. <i>Earth and Planetary Science Letters</i> , 2010, 296, 403-412.	4.4	117
14	Effects of a perovskite-post perovskite phase change near core-mantle boundary in compressible mantle convection. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	108
15	Astaxanthin stimulates mitochondrial biogenesis in insulin resistant muscle via activation of AMPK pathway. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 241-258.	7.3	95
16	Lateral variations in CMB heat flux and deep mantle seismic velocity caused by a thermal-chemical-phase boundary layer in 3D spherical convection. <i>Earth and Planetary Science Letters</i> , 2008, 271, 348-358.	4.4	82
17	HIF-1 $\alpha$ in Myeloid Cells Promotes Adipose Tissue Remodeling Toward Insulin Resistance. <i>Diabetes</i> , 2016, 65, 3649-3659.	0.6	81
18	Hypothalamic SIRT1 prevents age-associated weight gain by improving leptin sensitivity in mice. <i>Diabetologia</i> , 2014, 57, 819-831.	6.3	80

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19	Hemangioma of the nasal cavity. <i>Auris Nasus Larynx</i> , 2002, 29, 335-339.	1.2	79
20	Effects of thermo-chemical mantle convection on the thermal evolution of the Earth's core. <i>Earth and Planetary Science Letters</i> , 2004, 220, 107-119.	4.4	77
21	Incorporating self-consistently calculated mineral physics into thermochemical mantle convection simulations in a 3-D spherical shell and its influence on seismic anomalies in Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	76
22	Influence of initial CMB temperature and other parameters on the thermal evolution of Earth's core resulting from thermochemical spherical mantle convection. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	73
23	Effects of low-viscosity post-perovskite on thermo-chemical mantle convection in a 3-D spherical shell. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	71
24	Deficiency of Nicotinamide Mononucleotide Adenylyltransferase 3 (Nmnat3) Causes Hemolytic Anemia by Altering the Glycolytic Flow in Mature Erythrocytes. <i>Journal of Biological Chemistry</i> , 2014, 289, 14796-14811.	3.4	68
25	Deep mantle heat flow and thermal evolution of the Earth's core in thermochemical multiphase models of mantle convection. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	66
26	Influence of magmatism on mantle cooling, surface heat flow and Urey ratio. <i>Earth and Planetary Science Letters</i> , 2012, 329-330, 1-10.	4.4	65
27	Urea cycle regulation by mitochondrial sirtuin, SIRT5. <i>Aging</i> , 2009, 1, 578-581.	3.1	62
28	Influence of combined primordial layering and recycled MORB on the coupled thermal evolution of Earth's mantle and core. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 619-633.	2.5	59
29	SnapShot: Sirtuins, NAD, and Aging. <i>Cell Metabolism</i> , 2014, 20, 192-192.e1.	16.2	54
30	Nmnat3 Is Dispensable in Mitochondrial NAD Level Maintenance In Vivo. <i>PLoS ONE</i> , 2016, 11, e0147037.	2.5	54
31	Bofutsushosan improves gut barrier function with a bloom of <i>Akkermansia muciniphila</i> and improves glucose metabolism in mice with diet-induced obesity. <i>Scientific Reports</i> , 2020, 10, 5544.	3.3	51
32	Neuronal SIRT1 regulates macronutrient-based diet selection through FGF21 and oxytocin signalling in mice. <i>Nature Communications</i> , 2018, 9, 4604.	12.8	46
33	A Bax/Bak-independent Mechanism of Cytochrome c Release. <i>Journal of Biological Chemistry</i> , 2007, 282, 16623-16630.	3.4	43
34	Thermo-chemical structure in the mantle arising from a three-component convective system and implications for geochemistry. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 146, 125-138.	1.9	42
35	Size and compositional constraints of Ganymede's metallic core for driving an active dynamo. <i>Icarus</i> , 2009, 202, 216-224.	2.5	42
36	Implications of NAD metabolism in pathophysiology and therapeutics for neurodegenerative diseases. <i>Nutritional Neuroscience</i> , 2021, 24, 371-383.	3.1	42

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37	Mass transport mechanism between the upper and lower mantle in numerical simulations of thermochemical mantle convection with multicomponent phase changes. <i>Earth and Planetary Science Letters</i> , 2005, 230, 11-27.	4.4	41
38	Effect of a stably stratified layer near the outer boundary in numerical simulations of a magnetohydrodynamic dynamo in a rotating spherical shell and its implications for Earth's core. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 187, 342-352.	1.9	40
39	BST1 regulates nicotinamide riboside metabolism via its glycohydrolase and base-exchange activities. <i>Nature Communications</i> , 2021, 12, 6767.	12.8	40
40	Proteolysis of EphA2 Converts It from a Tumor Suppressor to an Oncoprotein. <i>Cancer Research</i> , 2015, 75, 3327-3339.	0.9	39
41	Simultaneous measurement of NAD metabolome in aged mice tissue using liquid chromatography tandem mass spectrometry. <i>Biomedical Chromatography</i> , 2018, 32, e4205.	1.7	37
42	Overexpression of Nmnat3 efficiently increases $\langle \text{NAD} \rangle$ and $\langle \text{NGD} \rangle$ levels and ameliorates age-associated insulin resistance. <i>Aging Cell</i> , 2018, 17, e12798.	6.7	37
43	Papillary cystadenocarcinoma arising from minor salivary glands in the anterior portion of the tongue: a case report. <i>Auris Nasus Larynx</i> , 2002, 29, 87-90.	1.2	36
44	Targeting metabolic pathways for head and neck cancers therapeutics. <i>Cancer and Metastasis Reviews</i> , 2017, 36, 503-514.	5.9	36
45	Oral Administration of Nicotinamide Mononucleotide Is Safe and Efficiently Increases Blood Nicotinamide Adenine Dinucleotide Levels in Healthy Subjects. <i>Frontiers in Nutrition</i> , 2022, 9, 868640.	3.7	32
46	Influence of plate tectonic mode on the coupled thermochemical evolution of Earth's mantle and core. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3400-3413.	2.5	30
47	Chronic nicotinamide mononucleotide supplementation elevates blood nicotinamide adenine dinucleotide levels and alters muscle function in healthy older men. , 2022, 8, .		30
48	Water circulation and global mantle dynamics: Insight from numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1449-1464.	2.5	29
49	Intractable Otitis Media with Eosinophils: Importance of Diagnosis and Validity of Treatment for Hearing Preservation. <i>Orl</i> , 2006, 68, 118-122.	1.1	27
50	The microRNAs miR-302b and miR-372 regulate mitochondrial metabolism via the SLC25A12 transporter, which controls MAVS-mediated antiviral innate immunity. <i>Journal of Biological Chemistry</i> , 2020, 295, 444-457.	3.4	26
51	NAD <sup>+</sup> Metabolism Regulates Preadipocyte Differentiation by Enhancing $\hat{\pm}$ -Ketoglutarate-Mediated Histone H3K9 Demethylation at the PPAR $\hat{3}$ Promoter. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 586179.	3.7	26
52	Numerical and laboratory studies of mantle convection: Philosophy, accomplishments, and thermochemical structure and evolution. <i>Geophysical Monograph Series</i> , 2005, , 83-99.	0.1	25
53	On the thermo-chemical origin of the stratified region at the top of the Earth's core. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 276, 172-181.	1.9	24
54	Implications of high core thermal conductivity on Earth's coupled mantle and core evolution. <i>Geophysical Research Letters</i> , 2013, 40, 2652-2656.	4.0	23

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55	Temperature and heat flux scalings for isoviscous thermal convection in spherical geometry. <i>Geophysical Journal International</i> , 2010, , no-no.	2.4	22
56	Radial 1â€œ seismic structures in the deep mantle in mantle convection simulations with self-consistently calculated mineralogy. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	21
57	Metabolism and biochemical properties of nicotinamide adenine dinucleotide (NAD) analogs, nicotinamide guanine dinucleotide (NGD) and nicotinamide hypoxanthine dinucleotide (NHD). <i>Scientific Reports</i> , 2019, 9, 13102.	3.3	20
58	On the evolution of the water ocean in the plate-mantle system. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	17
59	Oncogenic osteomalacia secondary to nasal tumor with decreased urinary excretion of cAMP. <i>Journal of Bone and Mineral Metabolism</i> , 2001, 19, 61-64.	2.7	16
60	An implication for the origin of stratification below the coreâ€œ mantle boundary region in numerical dynamo simulations in a rotating spherical shell. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 247, 94-104.	1.9	14
61	Global-scale water circulation in the Earth's mantle: Implications for the mantle water budget in the early Earth. <i>Earth and Planetary Science Letters</i> , 2017, 464, 189-199.	4.4	14
62	Sirt1 activator induces proangiogenic genes in preadipocytes to rescue insulin resistance in diet-induced obese mice. <i>Scientific Reports</i> , 2018, 8, 11370.	3.3	14
63	Long-term Stability of Plate-like Behavior Caused by Hydrous Mantle Convection and Water Absorption in the Deep Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8431-8445.	3.4	13
64	Influence of the post-perovskite transition on thermal and thermo-chemical mantle convection. <i>Geophysical Monograph Series</i> , 2007, , 229-247.	0.1	11
65	Deletion of PHGDH in adipocytes improves glucose intolerance in diet-induced obese mice. <i>Biochemical and Biophysical Research Communications</i> , 2018, 504, 309-314.	2.1	11
66	Simultaneous Measurement of Amino Acid Enantiomers in Aged Mouse Brain Samples by LC/MS/MS Combined with Derivatization Using NÎ±-(5-Fluoro-2,4-dinitrophenyl)-l-leucinamide (l-FDLA). <i>Metabolites</i> , 2021, 11, 57.	2.9	11
67	On the numerical modeling of the deep mantle water cycle in global-scale mantle dynamics: The effects of the water solubility limit of lower mantle minerals. <i>Journal of Earth Science (Wuhan)</i> , Tj ETQq1 1 0.7843142gBT /Overlock 1		
68	Fate of adipocyte progenitors during adipogenesis in mice fed a high-fat diet. <i>Molecular Metabolism</i> , 2021, 54, 101328.	6.5	9
69	Deletion of SIRT1 in myeloid cells impairs glucose metabolism with enhancing inflammatory response to adipose tissue hypoxia. <i>Diabetology International</i> , 2016, 7, 59-68.	1.4	7
70	A coupled core-mantle evolution: review and future prospects. <i>Progress in Earth and Planetary Science</i> , 2020, 7, .	3.0	7
71	Astaxanthin, a Marine Carotenoid, Maintains the Tolerance and Integrity of Adipose Tissue and Contributes to Its Healthy Functions. <i>Nutrients</i> , 2021, 13, 4374.	4.1	7
72	Novel role of serine racemase in anti-apoptosis and metabolism. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3378-3387.	2.4	6

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73	On the implications of the coupled evolution of the deep planetary interior and the presence of surface ocean water in hydrous mantle convection. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 197-208.	1.2	6
74	Orotic acid protects pancreatic $\beta$ cell by p53 inactivation in diabetic mouse model. <i>Biochemical and Biophysical Research Communications</i> , 2021, 585, 191-195.	2.1	5
75	Ototoxic Effect of Potassium Canrenoate on the Guinea Pig Cochlea. <i>Acta Oto-Laryngologica</i> , 1991, 111, 719-727.	0.9	4
76	Macrophage-specific hypoxia-inducible factor-1 $\alpha$ deletion suppresses the development of liver tumors in high-fat diet-fed obese and diabetic mice. <i>Journal of Diabetes Investigation</i> , 2019, 10, 1411-1418.	2.4	4
77	Deletion of the GAPDH gene contributes to genome stability in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2020, 10, 21146.	3.3	4
78	Differences Among Mixed, Chest, and Falsetto Registers: A Multiparametric Study. <i>Journal of Voice</i> , 2021, , .	1.5	4
79	GABA-induced response in spiral ganglion cells acutely isolated from guinea pig cochlea. <i>Neuroscience Research</i> , 2005, 53, 396-403.	1.9	3
80	Trace-element characteristics of east-west mantle geochemical hemispheres. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 209-220.	1.2	2
81	The Effect of Clinofibrate and Cholestyramine on Biliary Lipids. <i>The Journal of Japan Atherosclerosis Society</i> , 1983, 11, 603-609.	0.0	1
82	Severe intraoperative bleeding from a site on the displaced ophthalmic artery: A case report. <i>Journal of Japan Society for Head and Neck Surgery</i> , 2016, 25, 463-467.	0.0	0
83	SUBTOTAL TEMPORAL BONE RESECTION FOR TEMPORAL BONE MALIGNANCY. <i>Japanese Journal of Head and Neck Cancer</i> , 2001, 27, 585-590.	0.1	0
84	A study of tinnitus due to hemifacial spasm.. <i>Audiology Japan</i> , 1995, 38, 44-48.	0.1	0