

# Jan Martel

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

4,072  
citations

126858

33  
h-index

143943

57  
g-index

59  
all docs

59  
docs citations

59  
times ranked

5416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ganoderma lucidum reduces obesity in mice by modulating the composition of the gut microbiota. Nature Communications, 2015, 6, 7489.	5.8	926
2	Gut commensal <i>Parabacteroides goldsteinii</i> plays a predominant role in the anti-obesity effects of polysaccharides isolated from <i>Hirsutiella sinensis</i> . Gut, 2019, 68, 248-262.	6.1	524
3	Anti-obesogenic and antidiabetic effects of plants and mushrooms. Nature Reviews Endocrinology, 2017, 13, 149-160.	4.3	213
4	Gut barrier disruption and chronic disease. Trends in Endocrinology and Metabolism, 2022, 33, 247-265.	3.1	153
5	Effects of obesity on depression: A role for inflammation and the gut microbiota. Brain, Behavior, and Immunity, 2018, 69, 1-8.	2.0	148
6	Purported nanobacteria in human blood as calcium carbonate nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5549-5554.	3.3	130
7	NK cells kill mycobacteria directly by releasing perforin and granulysin. Journal of Leukocyte Biology, 2014, 96, 1119-1129.	1.5	105
8	Hormetic Effects of Phytochemicals on Health and Longevity. Trends in Endocrinology and Metabolism, 2019, 30, 335-346.	3.1	105
9	Impact of the gut microbiota, prebiotics, and probiotics on human health and disease. Biomedical Journal, 2014, 37, 259.	1.4	99
10	Putative Nanobacteria Represent Physiological Remnants and Culture By-Products of Normal Calcium Homeostasis. PLoS ONE, 2009, 4, e4417.	1.1	84
11	Characterization of Granulations of Calcium and Apatite in Serum as Pleomorphic Mineralo-Protein Complexes and as Precursors of Putative Nanobacteria. PLoS ONE, 2009, 4, e5421.	1.1	76
12	Could nasal nitric oxide help to mitigate the severity of COVID-19?. Microbes and Infection, 2020, 22, 168-171.	1.0	74
13	Emerging use of senolytics and senomorphics against aging and chronic diseases. Medicinal Research Reviews, 2020, 40, 2114-2131.	5.0	71
14	Comprehensive proteomic analysis of mineral nanoparticles derived from human body fluids and analyzed by liquid chromatography-tandem mass spectrometry. Analytical Biochemistry, 2011, 418, 111-125.	1.1	69
15	Fetuin-A/Albumin-Mineral Complexes Resembling Serum Calcium Granules and Putative Nanobacteria: Demonstration of a Dual Inhibition-Seeding Concept. PLoS ONE, 2009, 4, e8058.	1.1	69
16	Physicochemical and Biological Properties of Biomimetic Mineralo-Protein Nanoparticles Formed Spontaneously in Biological Fluids. Small, 2013, 9, 2297-2307.	5.2	54
17	Antiaging effects of bioactive molecules isolated from plants and fungi. Medicinal Research Reviews, 2019, 39, 1515-1552.	5.0	54
18	Phytochemicals as Prebiotics and Biological Stress Inducers. Trends in Biochemical Sciences, 2020, 45, 462-471.	3.7	54

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19	Immunomodulatory Properties of Plants and Mushrooms. Trends in Pharmacological Sciences, 2017, 38, 967-981.	4.0	50
20	Identification of CD24 as a Cancer Stem Cell Marker in Human Nasopharyngeal Carcinoma. PLoS ONE, 2014, 9, e99412.	1.1	49
21	Bions: A Family of Biomimetic Mineralo-Organic Complexes Derived from Biological Fluids. PLoS ONE, 2013, 8, e75501.	1.1	49
22	The Rise and Fall of Nanobacteria. Scientific American, 2010, 302, 52-59.	1.0	46
23	Mineral particles stimulate innate immunity through neutrophil extracellular traps containing HMGB1. Scientific Reports, 2017, 7, 16628.	1.6	44
24	<i>cis</i> -Resveratrol produces anti-inflammatory effects by inhibiting canonical and non-canonical inflammasomes in macrophages. Innate Immunity, 2014, 20, 735-750.	1.1	43
25	Biomimetic Properties of Minerals and the Search for Life in the Martian Meteorite ALH84001. Annual Review of Earth and Planetary Sciences, 2012, 40, 167-193.	4.6	40
26	Of nanobacteria, nanoparticles, biofilms and their role in health and disease: facts, fancy and future. Nanomedicine, 2014, 9, 483-499.	1.7	39
27	Immunomodulatory properties of medicinal mushrooms: differential effects of water and ethanol extracts on NK cell-mediated cytotoxicity. Innate Immunity, 2016, 22, 522-533.	1.1	39
28	The medicinal fungus <i>Antrodia cinnamomea</i> suppresses inflammation by inhibiting the NLRP3 inflammasome. Journal of Ethnopharmacology, 2014, 155, 154-164.	2.0	38
29	Recent advances in the field of caloric restriction mimetics and anti-aging molecules. Ageing Research Reviews, 2021, 66, 101240.	5.0	38
30	<i>Hirsutella sinensis</i> mycelium attenuates bleomycin-induced pulmonary inflammation and fibrosis in vivo. Scientific Reports, 2015, 5, 15282.	1.6	37
31	Is the inflammasome relevant for epithelial cell function?. Microbes and Infection, 2016, 18, 93-101.	1.0	37
32	Serum-derived nanoparticles: <i>de novo</i> generation and growth <i>in vitro</i> , and internalization by mammalian cells in culture. Nanomedicine, 2011, 6, 643-658.	1.7	36
33	<i>Hirsutella sinensis</i> mycelium suppresses interleukin-1 $\beta$ and interleukin-18 secretion by inhibiting both canonical and non-canonical inflammasomes. Scientific Reports, 2013, 3, 1374.	1.6	36
34	Critical Evaluation of Gamma-Irradiated Serum Used as Feeder in the Culture and Demonstration of Putative Nanobacteria and Calcifying Nanoparticles. PLoS ONE, 2010, 5, e10343.	1.1	35
35	Detection and characterization of mineralo-organic nanoparticles in human kidneys. Scientific Reports, 2015, 5, 15272.	1.6	34
36	Fatty acids and small organic compounds bind to mineralo-organic nanoparticles derived from human body fluids as revealed by metabolomic analysis. Nanoscale, 2016, 8, 5537-5545.	2.8	34

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37	<i>Ganoderma lucidum</i> stimulates NK cell cytotoxicity by inducing NKG2D/NCR activation and secretion of perforin and granulysin. <i>Innate Immunity</i> , 2014, 20, 301-311.	1.1	33
38	NK Cell-Derived IFN- $\beta$ Protects against Nontuberculous Mycobacterial Lung Infection. <i>Journal of Immunology</i> , 2018, 201, 1478-1490.	0.4	33
39	An iron detection system determines bacterial swarming initiation and biofilm formation. <i>Scientific Reports</i> , 2016, 6, 36747.	1.6	31
40	Membrane Vesicles Nucleate Mineralo-organic Nanoparticles and Induce Carbonate Apatite Precipitation in Human Body Fluids. <i>Journal of Biological Chemistry</i> , 2013, 288, 30571-30584.	1.6	29
41	A story told by a single nanoparticle in the body fluid: demonstration of dissolution-precipitation of nanocrystals in a biological system. <i>Nanomedicine</i> , 2015, 10, 2659-2676.	1.7	22
42	Myths and Realities Surrounding the Mysterious Caterpillar Fungus. <i>Trends in Biotechnology</i> , 2017, 35, 1017-1021.	4.9	19
43	<i>Antrodia cinnamomea</i> induces anti-tumor activity by inhibiting the STAT3 signaling pathway in lung cancer cells. <i>Scientific Reports</i> , 2019, 9, 5145.	1.6	18
44	<i>Antrodia cinnamomea</i> produces anti-angiogenic effects by inhibiting the VEGFR2 signaling pathway. <i>Journal of Ethnopharmacology</i> , 2018, 220, 239-249.	2.0	17
45	Plant and fungal products that extend lifespan in <i>Caenorhabditis elegans</i> . <i>Microbial Cell</i> , 2020, 7, 255-269.	1.4	17
46	Formation and characteristics of biomimetic mineralo-organic particles in natural surface water. <i>Scientific Reports</i> , 2016, 6, 28817.	1.6	16
47	Nanoparticle conversion to biofilms: <i>in vitro</i> demonstration using serum-derived mineralo-organic nanoparticles. <i>Nanomedicine</i> , 2015, 10, 3519-3535.	1.7	15
48	Pleomorphic bacteria-like structures in human blood represent non-living membrane vesicles and protein particles. <i>Scientific Reports</i> , 2017, 7, 10650.	1.6	15
49	Isolation, Culture and Characterization of <i>Hirsutella sinensis</i> Mycelium from Caterpillar Fungus Fruiting Body. <i>PLoS ONE</i> , 2017, 12, e0168734.	1.1	14
50	Mineralo-organic nanoparticles in health and disease: an overview of recent findings. <i>Nanomedicine</i> , 2018, 13, 1787-1793.	1.7	12
51	Translocation of mineralo-organic nanoparticles from blood to urine: a new mechanism for the formation of kidney stones?. <i>Nanomedicine</i> , 2016, 11, 2399-2404.	1.7	11
52	<i>Ganoderma lucidum</i> stimulates autophagy-dependent longevity pathways in <i>Caenorhabditis elegans</i> and human cells. <i>Aging</i> , 2021, 13, 13474-13495.	1.4	10
53	Ectopic calcification and formation of mineralo-organic particles in arteries of diabetic subjects. <i>Scientific Reports</i> , 2020, 10, 8545.	1.6	7
54	Alternative functions for the multifarious inflammasome. <i>Biomedical Journal</i> , 2016, 39, 183-187.	1.4	6

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55	Pinicolol B from <i>Antrodia cinnamomea</i> induces apoptosis of nasopharyngeal carcinoma cells. <i>Journal of Ethnopharmacology</i> , 2017, 201, 117-122.	2.0	6
56	Comprehensive organic profiling of biological particles derived from blood. <i>Scientific Reports</i> , 2018, 8, 11310.	1.6	6
57	Mushrooms - From cuisine to clinic. <i>Biomedical Journal</i> , 2014, 37, 343.	1.4	3
58	Biom mineralization: Physicochemical and Biological Properties of Biomimetic Mineralo-Protein Nanoparticles Formed Spontaneously in Biological Fluids ( <i>Small</i> 13/2013). <i>Small</i> , 2013, 9, 2372-2372.	5.2	0
59	Cover Image, Volume 40, Issue 6. <i>Medicinal Research Reviews</i> , 2020, 40, i.	5.0	0