Jonathan J Powell

List of Publications by Year
in descending order

44 papers	2,032 citations	279798 23 h-index	243625 44 g-index
45 all docs	45 docs citations	45 times ranked	2888 citing authors

#	Article	IF	Citations
1	Ferrous Sulfate Supplementation Causes Significant Gastrointestinal Side-Effects in Adults: A Systematic Review and Meta-Analysis. PLoS ONE, 2015, 10, e0117383.	2.5	476
2	Dietary sources of inorganic microparticles and their intake in healthy subjects and patients with Crohn's disease. British Journal of Nutrition, 2004, 92, 947-955.	2.3	157
3	Nanoparticulate iron(III) oxo-hydroxide delivers safe iron that is well absorbed and utilised in humans. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1877-1886.	3.3	120
4	Pharmaceutical/food grade titanium dioxide particles are absorbed into the bloodstream of human volunteers. Particle and Fibre Toxicology, 2015, 12, 26.	6.2	102
5	Formulation of Metalâ€“Organic Framework-Based Drug Carriers by Controlled Coordination of Methoxy PEG Phosphate: Boosting Colloidal Stability and Redispersibility. Journal of the American Chemical Society, 2021, 143, 13557-13572.	13.7	88
6	Dietary silicon and bone health. Nutrition Bulletin, 2005, 30, 222-230.	1.8	83
7	Silica nanoparticles as sources of silicic acid favoring wound healing in vitro. Colloids and Surfaces B: Biointerfaces, 2017, 155, 530-537.	5.0	79
8	An endogenous nanomineral chaperones luminal antigen and peptidoglycan to intestinal immune cells. Nature Nanotechnology, 2015, 10, 361-369.	31.5	73
9	Dietary microparticles and their impact on tolerance and immune responsiveness of the gastrointestinal tract. British Journal of Nutrition, 2007, 98, S59-S63.	2.3	70
10	A nano-disperse ferritin-core mimetic that efficiently corrects anemia without luminal iron redox activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1529-1538.	3.3	69
11	Bone mineral health is sensitively related to environmental cadmium exposure- experimental and human data. Environmental Research, 2019, 176, 108539.	7.5	63
12	Aquaporins Mediate Silicon Transport in Humans. PLoS ONE, 2015, 10, e0136149.	2.5	45
13	Identification of a mammalian silicon transporter. American Journal of Physiology - Cell Physiology, 2017, 312, C550-C561.	4.6	45
14	Ferroportin mediates the intestinal absorption of iron from a nanoparticulate ferritin core mimetic in mice. FASEB Journal, 2014, 28, 3671-3678.	0.5	42
15	Infection with the sheep gastrointestinal nematode Teladorsagia circumcincta increases luminal pathobionts. Microbiome, 2020, 8, 60.	11.1	40
16	Non-Functionalized Ultrasmall Silica Nanoparticles Directly and Size-Selectively Activate T Cells. ACS Nano, 2018, 12, 10843-10854.	14.6	39
17	A Nanoparticulate Ferritin-Core Mimetic Is Well Taken Up by HuTu 80 Duodenal Cells and Its Absorption in Mice Is Regulated by Body Iron. Journal of Nutrition, 2014, 144, 1896-1902.	2.9	38
18	Silicon and boron differ in their localization and loading in bone. Bone Reports, 2015, 1, 9-15.	0.4	33

#	Article	IF	Citations
19	The decrease in silicon concentration of the connective tissues with age in rats is a marker of connective tissue turnover. Bone, 2015, 75, 40-48.	2.9	30
20	Intestinal APCs of the endogenous nanomineral pathway fail to express PD-L1 in Crohnâ€™s disease. Scientific Reports, 2016, 6, 26747.	3.3	30
21	Copper nanoparticles have negligible direct antibacterial impact. NanoImpact, 2020, 17, 100192.	4.5	30
22	Small and dangerous? Potential toxicity mechanisms of common exposure particles and nanoparticles. Current Opinion in Toxicology, 2020, 19, 93-98.	5.0	29
23	The Chemical Form of Metal Species Released from Corroded Taper Junctions of Hip Implants: Synchrotron Analysis of Patient Tissue. Scientific Reports, 2017, 7, 10952.	3.3	24
24	Gastrointestinal absorption and toxicity of nanoparticles and microparticles: Myth, reality and pitfalls explored through titanium dioxide. Current Opinion in Toxicology, 2020, 19, 112-120.	5.0	23
25	Soluble silica stimulates osteogenic differentiation and gap junction communication in human dental follicle cells. Scientific Reports, 2020, 10, 9923.	3.3	20
26	Synthetic mimetics of the endogenous gastrointestinal nanomineral: Silent constructs that trap macromolecules for intracellular delivery. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 619-630.	3.3	17
27	Ultrasmall silica nanoparticles directly ligate the T cell receptor complex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 285-291.	7.1	17
28	Post-capture investigations of hydrothermal vent macro-invertebrates to study adaptations to extreme environments. Reviews in Environmental Science and Biotechnology, 2006, 5, 193-201.	8.1	16
29	Dietary fortificant iron intake is negatively associated with quality of life in patients with mildly active inflammatory bowel disease. Nutrition and Metabolism, 2013, 10, 9.	3.0	16
30	Pro-inflammatory adjuvant properties of pigment-grade titanium dioxide particles are augmented by a genotype that potentiates interleukin 1Î² processing. Particle and Fibre Toxicology, 2017, 14, 51.	6.2	16
31	Physiological silicon incorporation into bone mineral requires orthosilicic acid metabolism to SiO ₄ ^{4â^'}. Journal of the Royal Society Interface, 2020, 17, 20200145.	3.4	16
32	Imaging flow cytometry assays for quantifying pigment grade titanium dioxide particle internalization and interactions with immune cells in whole blood. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 1009-1020.	1.5	15
33	A Murine Oralâ€Exposure Model for Nanoâ€•and Microâ€Particulates: Demonstrating Human Relevance with Foodâ€Grade Titanium Dioxide. Small, 2020, 16, e2000486.	10.0	12
34	Iron status is inversely associated with dietary iron intakes in patients with inactive or mildly active inflammatory bowel disease. Nutrition and Metabolism, 2013, 10, 18.	3.0	10
35	Development of DRC-ICP-MS methodology for the rapid determination of 58Fe erythrocyte incorporation in human iron absorption studies. Journal of Analytical Atomic Spectrometry, 2011, 26, 1648.	3.0	8
36	A Novel Ferritin-Core Analog Is a Safe and Effective Alternative to Oral Ferrous Iron for Treating Iron Deficiency during Pregnancy in Mice. Journal of Nutrition, 2022, 152, 714-722.	2.9	8

#	Article	IF	Citations
37	Urinary Excretion of Silicon in Men, Non-pregnant Women, and Pregnant Women: a Cross-sectional Study. Biological Trace Element Research, 2020, 194, 321-327.	3.5	7
38	Dietary Silicon Deficiency Does Not Exacerbate Diet-Induced Fatty Lesions in Female ApoE Knockout Micece. Journal of Nutrition, 2015, 145, 1498-1506.	2.9	6
39	Reduction of T-Helper Cell Responses to Recall Antigen Mediated by Codelivery with Peptidoglycan via the Intestinal Nanomineralâ€“Antigen Pathway. Frontiers in Immunology, 2017, 8, 284.	4.8	6
40	Inhibitory effects of orthosilicic acid on osteoclastogenesis in <scp>RANKL</scp>â€stimulated <scp>RAW264</scp>.7 cells. Journal of Biomedical Materials Research - Part A, 2021, 109, 1967-1978.	4.0	6
41	Robust rapid-setting antibacterial liquid bandages. Scientific Reports, 2020, 10, 15067.	3.3	3
42	Imaging flow cytometry methods for quantitative analysis of label-free crystalline silica particle interactions with immune cells. AIMS Biophysics, 2020, 7, 144-166.	0.6	3
43	Efficacy and safety of PT20, an iron-based phosphate binder, for the treatment of hyperphosphataemia: a randomized, double-blind, placebo-controlled, dose-ranging, Phase IIb study in patients with haemodialysis-dependent chronic kidney disease. Nephrology Dialysis Transplantation, 2020, 36, 1399-1407.	0.7	1
44	Novel oral iron therapy for iron deficiency anaemia: How to value safety in a new drug?. British Journal of Clinical Pharmacology, 2022, 88, 1347-1357.	2.4	0