David W Killilea

List of Publications by Year
in descending order

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64 papers	2,775 citations	201575 27 h-index	182361 51 g-index
66 all docs	66 docs citations	66 times ranked	4375 citing authors

#	Article	IF	Citations
1	ZIP8 Regulates Host Defense through Zinc-Mediated Inhibition of NF-Î¹B. Cell Reports, 2013, 3, 386-400.	2.9	291
2	Oxidative stress and inflammation in iron-overloaded patients with ?-thalassaemia or sickle cell disease. British Journal of Haematology, 2006, 135, 254-263.	1.2	260
3	Age-associated mitochondrial oxidative decay: Improvement of carnitine acetyltransferase substrate-binding affinity and activity in brain by feeding old rats acetyl-L- carnitine and/or R-Â-lipoic acid. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1876-1881.	3.3	246
4	Heme deficiency may be a factor in the mitochondrial and neuronal decay of aging. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14807-14812.	3.3	210
5	Pharmacogenetic Analysis of Lithium-induced Delayed Aging in Caenorhabditis elegans. Journal of Biological Chemistry, 2008, 283, 350-357.	1.6	166
6	Magnesium deficiency accelerates cellular senescence in cultured human fibroblasts. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5768-5773.	3.3	107
7	Therapeutic targeting of oxygen-sensing prolyl hydroxylases abrogates ATF4-dependent neuronal death and improves outcomes after brain hemorrhage in several rodent models. Science Translational Medicine, 2016, 8, 328ra29.	5.8	106
8	Mineral and vitamin deficiencies can accelerate the mitochondrial decay of aging. Molecular Aspects of Medicine, 2005, 26, 363-378.	2.7	94
9	Iron Accumulation during Cellular Senescence. Annals of the New York Academy of Sciences, 2004, 1019, 365-367.	1.8	77
10	Hypoxia promotes oxidative base modifications in the pulmonary artery endothelial cell VEGF gene. FASEB Journal, 2001, 15, 1267-1269.	0.2	76
11	Iron Accumulation During Cellular Senescence in Human FibroblastsIn Vitro. Antioxidants and Redox Signaling, 2003, 5, 507-516.	2.5	72
12	A Drosophila Model Identifies a Critical Role for Zinc in Mineralization for Kidney Stone Disease. PLoS ONE, 2015, 10, e0124150.	1.1	67
13	Oligodendrocyte Death in Pelizaeus-Merzbacher Disease Is Rescued by Iron Chelation. Cell Stem Cell, 2019, 25, 531-541.e6.	5.2	60
14	Iron, Zinc, Folate, and Vitamin B-12 Status Increased among Women and Children in YaoundÃ© and Douala, Cameroon, 1 Year after Introducing Fortified Wheat Flour. Journal of Nutrition, 2017, 147, 1426-1436.	1.3	59
15	Iron promotes protein insolubility and aging in C. elegans. Aging, 2014, 6, 975-988.	1.4	57
16	Zinc Deficiency Augments Leptin Production and Exacerbates Macrophage Infiltration into Adipose Tissue in Mice Fed a High-Fat Diet1â€“3. Journal of Nutrition, 2013, 143, 1036-1045.	1.3	54
17	Stunting Prevalence, Plasma Zinc Concentrations, and Dietary Zinc Intakes in a Nationally Representative Sample Suggest a High Risk of Zinc Deficiency among Women and Young Children in Cameroon. Journal of Nutrition, 2014, 144, 382-391.	1.3	53
18	Accumulation of metals in GOLD4 COPD lungs is associated with decreased CFTR levels. Respiratory Research, 2014, 15, 69.	1.4	53

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19	Î±-Lipoic acid treatment prevents cystine urolithiasis in a mouse model of cystinuria. Nature Medicine, 2017, 23, 288-290.	15.2	50
20	A moderate increase in dietary zinc reduces DNA strand breaks in leukocytes and alters plasma proteins without changing plasma zinc concentrations. American Journal of Clinical Nutrition, 2017, 105, 343-351.	2.2	50
21	The elementome of calcium-based urinary stones and its role in urolithiasis. Nature Reviews Urology, 2015, 12, 543-557.	1.9	48
22	Manganese disturbs metal and protein homeostasis in Caenorhabditis elegans. Metallomics, 2014, 6, 1816-1823.	1.0	41
23	A conserved role of the insulin-like signaling pathway in diet-dependent uric acid pathologies in Drosophila melanogaster. PLoS Genetics, 2019, 15, e1008318.	1.5	39
24	A connection between magnesium deficiency and aging: new insights from cellular studies. Magnesium Research, 2008, 21, 77-82.	0.4	34
25	Zinc Levels Modulate Lifespan through Multiple Longevity Pathways in Caenorhabditis elegans. PLoS ONE, 2016, 11, e0153513.	1.1	33
26	Nâ€tertâ€butyl hydroxylamine, a mitochondrial antioxidant, protects human retinal pigment epithelial cells from iron overload: relevance to macular degeneration. FASEB Journal, 2007, 21, 4077-4086.	0.2	30
27	Identification of a Hemolysis Threshold That Increases Plasma and Serum Zinc Concentration. Journal of Nutrition, 2017, 147, 1218-1225.	1.3	30
28	Altered transition metal homeostasis in Niemannâ€“Pick disease, type C1. Metallomics, 2014, 6, 542-553.	1.0	26
29	Fertility in transfusionâ€dependent thalassemia men: Effects of iron burden on the reproductive axis. American Journal of Hematology, 2015, 90, E190-2.	2.0	25
30	Flame retardant tris(1,3-dichloro-2-propyl)phosphate (TDCPP) toxicity is attenuated by N -acetylcysteine in human kidney cells. Toxicology Reports, 2017, 4, 260-264.	1.6	25
31	Lipoic acid and acetyl-carnitine reverse iron-induced oxidative stress in human fibroblasts. Redox Report, 2008, 13, 2-10.	1.4	24
32	Aluminium exposure disrupts elemental homeostasis in Caenorhabditis elegans. Metallomics, 2012, 4, 512.	1.0	22
33	Zinc deficiency reduces paclitaxel efficacy in LNCaP prostate cancer cells. Cancer Letters, 2007, 258, 70-79.	3.2	21
34	A genome-wide screen of bacterial mutants that enhance dauer formation in C. elegans. Scientific Reports, 2016, 6, 38764.	1.6	18
35	Dietary Zinc and Incident Calcium Kidney Stones in Adolescence. Journal of Urology, 2017, 197, 1342-1348.	0.2	16
36	Mineral requirements for mitochondrial function: A connection to redox balance and cellular differentiation. Free Radical Biology and Medicine, 2022, 182, 182-191.	1.3	15

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37	Change in hydration indices associated with an increase in total water intake of more than 0.5ÂL/day, sustained over 4Âweeks, in healthy young men with initial total water intake below 2ÂL/day. Physiological Reports, 2017, 5, e13356.	0.7	14
38	Changes in Mineral Micronutrient Status During and After Pulmonary Exacerbation in Adults With Cystic Fibrosis. Nutrition in Clinical Practice, 2015, 30, 838-843.	1.1	13
39	Potassium restriction boosts vacuolar acidity and extends lifespan in yeast. Experimental Gerontology, 2019, 120, 101-106.	1.2	10
40	Monitoring of the National Oil and Wheat Flour Fortification Program in Cameroon Using a Program Impact Pathway Approach. Current Developments in Nutrition, 2019, 3, nzz076.	0.1	9
41	Plasma and Nail Zinc Concentrations, But Not Hair Zinc, Respond Positively to Two Different Forms of Preventive Zinc Supplementation in Young Laotian Children: a Randomized Controlled Trial. Biological Trace Element Research, 2021, 199, 442-452.	1.9	9
42	Steady-State Asymmetric Nanospray Dual Ion Source for Accurate Mass Determination within a Chromatographic Separation. Analytical Chemistry, 2007, 79, 5711-5718.	3.2	8
43	Elemental Content of Calcium Oxalate Stones from a Canine Model of Urinary Stone Disease. PLoS ONE, 2015, 10, e0128374.	1.1	7
44	Acute changes in cellular zinc alters zinc uptake rates prior to zinc transporter gene expression in Jurkat cells. BioMetals, 2015, 28, 987-996.	1.8	6
45	Heterogeneity in calcium nephrolithiasis: A materials perspective. Journal of Materials Research, 2017, 32, 2497-2509.	1.2	6
46	Zinc supplementation improves markers of glucose homeostasis in thalassaemia. British Journal of Haematology, 2020, 190, e162-e166.	1.2	5
47	Wheat germ agglutinin is a biomarker of whole grain content in wheat flour and pasta. Journal of Food Science, 2020, 85, 808-815.	1.5	5
48	Editorial: Metal Biology Takes Flight: The Study of Metal Homeostasis and Detoxification in Insects. Frontiers in Genetics, 2018, 9, 221.	1.1	4
49	Success of Distance Learning During 2020 COVID-19 Restrictions: A Report from Five STEM Training Programs for Underrepresented High School and Undergraduate Learners. Journal of STEM Outreach, 2021, 4, .	0.3	4
50	Method diversity can explain discrepancies between iron uptake in CaCoâ€2 cells incubated with Na2EDTA. Are there two iron pools?. FASEB Journal, 2006, 20, A624.	0.2	4
51	Iron Level and Monocyte Morphology Predict TLR4 Expression and Reactive Oxygen Species Production Which Influences Chronic Inflammation in Î²-Thalassemia. Blood, 2015, 126, 950-950.	0.6	4
52	Dialyzability of Minerals in Corn Masa Gruel (Atole) Fortified with Different Iron Compounds: Effects of Ascorbic Acid, Disodium EDTA, and Phytic Acid. Food and Nutrition Bulletin, 2007, 28, 198-205.	0.5	2
53	Early maturing spring wheat in Nordic wildtype NAM-B1 germplasm for short-duration alternative wheat-producing regions. Plant Genetic Resources: Characterisation and Utilisation, 2019, 17, 352-361.	0.4	2
54	Association Of Cardiac Iron By T2* With Innate Immune Markers In Transfusion-Dependent Thalassemia Patients Undergoing Combined Chelation Therapy. Blood, 2013, 122, 3450-3450.	0.6	2

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55	Zinc deficiency and its association with treatmentâ€related toxicity in children with cancer. Pediatric Blood and Cancer, 2021, 68, e29104.	0.8	1
56	Leukocyte Apoptosis and Inflammation in Iron-Overloaded Patients with Sickle Cell Disease or Î²-Thalassemia: A Mechanism for Increased Stroke and Disease Severity in Sickle Cell Disease.. Blood, 2006, 108, 1233-1233.	0.6	1
57	Innate Immune Cell Expression of Pattern Recognition Receptors From Î²-Thalassemia Patients During Intensive Combination Chelation Therapy. Blood, 2012, 120, 1025-1025.	0.6	1
58	Implications of Low Zinc and Copper Levels As Well As Altered Iron Trafficking Proteins on Oxidant Stress in Patients with Transfusion Dependant Thalassemia. Blood, 2016, 128, 1289-1289.	0.6	1
59	Kidney Stones in Transfusion-Dependent Thalassemia: Prevalence and Risk Factors. Open Journal of Urology, 2022, 12, 209-227.	0.0	1
60	Toxic Unbound Iron and Membrane Injury in b-Thalassemia and Sickle Cell Disease: Elevated Non-Transferrin Bound Iron (NTBI) and Malondialdehyde (MDA).. Blood, 2004, 104, 3608-3608.	0.6	0
61	Iron Overload Diminishes the Effectiveness of the Innate Immune Response in Thalassemia Major: a Possible Mechanism for Increased Infection Risk.. Blood, 2009, 114, 4071-4071.	0.6	0
62	Magnesium Intake and Selfâ€Reported Health in Pregnant Women. FASEB Journal, 2010, 24, 561.14.	0.2	0
63	Prevalence of low plasma zinc concentration and related risk factors among young children and women of reproductive age in a nationally representative sample survey in Cameroon. FASEB Journal, 2012, 26, 392.1.	0.2	0
64	Dietâ€induced Obesity Decreases Liver Iron Stores in Mice Fed Iron Deficient, Adequate or Excessive Diets. FASEB Journal, 2012, 26, 641.21.	0.2	0