

# Charles Coudray

## List of Publications by Year in descending order

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115  
papers

4,231  
citations

94415

37  
h-index

133244

59  
g-index

116  
all docs

116  
docs citations

116  
times ranked

4892  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diets Rich in Olive Oil, Palm Oil, or Lard Alter Mitochondrial Biogenesis and Mitochondrial Membrane Composition in Rat Liver. <i>Biochemistry Research International</i> , 2022, 2022, 1-10.	3.3	2
2	Potential favourable health effects of some dietary uncommon fatty acids. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2021, 28, 41.	1.4	1
3	Peripancreatic Adipose Tissue Remodeling and Inflammation during High Fat Intake of Palm Oils or Lard in Rats. <i>Nutrients</i> , 2021, 13, 1134.	4.1	4
4	Potential physio-pathological effects of branched fatty acid esters of hydroxy fatty acids. <i>Biochimie</i> , 2021, 182, 13-22.	2.6	9
5	p43, a Truncated Form of Thyroid Hormone Receptor $\hat{1}\pm$ , Regulates Maturation of Pancreatic $\hat{1}^2$ Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2489.	4.1	5
6	Long-term intake of 9-PAHPA or 9-OAHPA modulates favorably the basal metabolism and exerts an insulin sensitizing effect in obesogenic diet-fed mice. <i>European Journal of Nutrition</i> , 2021, 60, 2013-2027.	3.9	20
7	Impact of diets rich in olive oil, palm oil or lard on myokine expression in rats. <i>Food and Function</i> , 2020, 11, 9114-9128.	4.6	6
8	FAHFAs Regulate the Proliferation of C2C12 Myoblasts and Induce a Shift toward a More Oxidative Phenotype in Mouse Skeletal Muscle. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9046.	4.1	8
9	Long-term high intake of 9-PAHPA or 9-OAHPA increases basal metabolism and insulin sensitivity but disrupts liver homeostasis in healthy mice. <i>Journal of Nutritional Biochemistry</i> , 2020, 79, 108361.	4.2	31
10	Effect of spirulina and silicon-enriched spirulina on metabolic syndrome features, oxidative stress and mitochondrial activity in Zucker fatty rats. <i>Journal of Food Biochemistry</i> , 2019, 43, e12979.	2.9	0
11	New evidence of exercise training benefits in myostatin-deficient mice: Effect on lipidomic abnormalities. <i>Biochemical and Biophysical Research Communications</i> , 2019, 516, 89-95.	2.1	11
12	Long-term Measures of Dyslipidemia, Inflammation, and Oxidative Stress in Rats Fed a High-Fat/High-Fructose Diet. <i>Lipids</i> , 2019, 54, 81-97.	1.7	33
13	Long-term follow-up of muscle lipid accumulation, mitochondrial activity and oxidative stress and their relationship with impaired glucose homeostasis in high fat high fructose diet-fed rats. <i>Journal of Nutritional Biochemistry</i> , 2019, 64, 182-197.	4.2	6
14	High dietary intake of palm oils compromises glucose tolerance whereas high dietary intake of olive oil compromises liver lipid metabolism and integrity. <i>European Journal of Nutrition</i> , 2019, 58, 3091-3107.	3.9	12
15	Les FAHFAs, une nouvelle classe de lipides endogènes bioactifs. <i>Cahiers De Nutrition Et De Dietetique</i> , 2018, 53, 100-105.	0.3	1
16	20-Week follow-up of hepatic steatosis installation and liver mitochondrial structure and activity and their interrelation in rats fed a high-fat-high-fructose diet. <i>British Journal of Nutrition</i> , 2018, 119, 368-380.	2.3	26
17	Skeletal muscle expression of p43, a truncated thyroid hormone receptor $\hat{1}\pm$ , affects lipid composition and metabolism. <i>Journal of Bioenergetics and Biomembranes</i> , 2018, 50, 71-79.	2.3	1
18	Skeletal muscle overexpression of short isoform Sirt3 altered mitochondrial cardiolipin content and fatty acid composition. <i>Journal of Bioenergetics and Biomembranes</i> , 2018, 50, 131-142.	2.3	10

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19	Spirulina platensis and silicon-enriched spirulina equally improve glucose tolerance and decrease the enzymatic activity of hepatic NADPH oxidase in obesogenic diet-fed rats. Food and Function, 2018, 9, 6165-6178.	4.6	12
20	The Dietary Total-Fat Content Affects the In Vivo Circulating C15:0 and C17:0 Fatty Acid Levels Independently. Nutrients, 2018, 10, 1646.	4.1	20
21	Toxicity of Natural Deep Eutectic Solvent Betaine:Glycerol in Rats. Journal of Agricultural and Food Chemistry, 2018, 66, 6205-6212.	5.2	46
22	Myostatin deficiency is associated with lipidomic abnormalities in skeletal muscles. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1044-1055.	2.4	24
23	A mitochondrial-targeted ubiquinone modulates muscle lipid profile and improves mitochondrial respiration in obesogenic diet-fed rats. British Journal of Nutrition, 2016, 115, 1155-1166.	2.3	38
24	The mitochondrial-targeted antioxidant, MitoQ, increases liver mitochondrial cardiolipin content in obesogenic diet-fed rats. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1025-1035.	1.0	40
25	Combined Strategies for Maintaining Skeletal Muscle Mass and Function in Aging: Myostatin Inactivation and AICAR-Associated Oxidative Metabolism Induction. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1077-1087.	3.6	19
26	The mitochondrial-targeted antioxidant MitoQ ameliorates metabolic syndrome features in obesogenic diet-fed rats better than Apocynin or Allopurinol. Free Radical Research, 2014, 48, 1232-1246.	3.3	58
27	Impact of high dietary lipid intake and related metabolic disorders on the abundance and acyl composition of the unique mitochondrial phospholipid, cardiolipin. Journal of Bioenergetics and Biomembranes, 2014, 46, 447-457.	2.3	28
28	Grape Polyphenols Prevent Fructose-Induced Oxidative Stress and Insulin Resistance in First-Degree Relatives of Type 2 Diabetic Patients. Diabetes Care, 2013, 36, 1454-1461.	8.6	113
29	Effects of long-term administration of saturated and <i>n</i> -3 fatty acid-rich diets on lipid utilisation and oxidative stress in rat liver and muscle tissues. British Journal of Nutrition, 2013, 110, 1789-1802.	2.3	33
30	Lack of myostatin alters intermyofibrillar mitochondria activity, unbalances redox status, and impairs tolerance to chronic repetitive contractions in muscle. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1000-E1008.	3.5	51
31	Dietary fatty acids modulate liver mitochondrial cardiolipin content and its fatty acid composition in rats with non alcoholic fatty liver disease. Journal of Bioenergetics and Biomembranes, 2012, 44, 439-452.	2.3	60
32	Polyphenols decreased liver NADPH oxidase activity, increased muscle mitochondrial biogenesis and decreased gastrocnemius age-dependent autophagy in aged rats. Free Radical Research, 2012, 46, 1140-1149.	3.3	25
33	Trans Fatty Acids: Chemical Synthesis of Eicosapentaenoic Acid Isomers and Detection in Rats Fed a Deodorized Fish Oil Diet. Chemical Research in Toxicology, 2012, 25, 687-694.	3.3	27
34	Rat liver mitochondrial membrane characteristics and mitochondrial functions are more profoundly altered by dietary lipid quantity than by dietary lipid quality: effect of different nutritional lipid patterns. British Journal of Nutrition, 2012, 107, 647-659.	2.3	67
35	Predictors of taste acuity in healthy older Europeans. Appetite, 2012, 58, 188-195.	3.7	15
36	Supplemented zinc does not alter mood in healthy older European adults – a randomised placebo-controlled trial: the Zenith study. Public Health Nutrition, 2011, 14, 882-888.	2.2	8

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37	A grape polyphenol extract modulates muscle membrane fatty acid composition and lipid metabolism in high-fatâ€“high-sucrose diet-fed rats. British Journal of Nutrition, 2011, 106, 491-501.	2.3	20
38	Vitamin D Status and Indices of Bone Turnover in Older European Adults. International Journal for Vitamin and Nutrition Research, 2011, 81, 277-285.	1.5	6
39	A polyphenol extract modifies quantity but not quality of liver fatty acid content in high-fatâ€“high-sucrose diet-fed rats: possible implication of the sirtuin pathway. British Journal of Nutrition, 2010, 104, 1760-1770.	2.3	39
40	Zinc supplementation does not alter plasma homocysteine, vitamin B12 and red blood cell folate concentrations in French elderly subjects. Journal of Trace Elements in Medicine and Biology, 2009, 23, 15-20.	3.0	12
41	Iron absorption in dysmetabolic iron overload syndrome is decreased and correlates with increased plasma hepcidin. Journal of Hepatology, 2009, 50, 1219-1225.	3.7	79
42	Effect of zinc supplementation on protein metabolism in lateâ€“middle-aged men: The Zenith study. Nutrition, 2008, 24, 155-161.	2.4	6
43	Salivary cortisol, stress and mood in healthy older adults: The Zenith study. Biological Psychology, 2008, 78, 1-9.	2.2	38
44	No Antioxidant Beneficial Effect of Zinc Supplementation on Oxidative Stress Markers and Antioxidant Defenses in Middle-Aged and Elderly Subjects: The Zenith Study. Journal of the American College of Nutrition, 2008, 27, 463-469.	1.8	12
45	Taste acuity in response to zinc supplementation in older Europeans. British Journal of Nutrition, 2008, 99, 129-136.	2.3	45
46	Effect of Zinc Supplementation on the Immune Status of Healthy Older Individuals Aged 55-70 Years: The ZENITH Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 598-608.	3.6	43
47	Age- and sex-dependent effects of long-term zinc supplementation on essential trace element status and lipid metabolism in European subjects: the Zenith Study. British Journal of Nutrition, 2007, 97, 569-578.	2.3	29
48	Mild copper deficiency alters gene expression of proteins involved in iron metabolism. Blood Cells, Molecules, and Diseases, 2006, 36, 15-20.	1.4	21
49	Dietary Inulin Intake and Age Can Affect Intestinal Absorption of Zinc and Copper in Rats. Journal of Nutrition, 2006, 136, 117-122.	2.9	44
50	Dietary inulin intake and age can significantly affect absorption of the faecal marker dysprosium in rats. British Journal of Nutrition, 2006, 95, 255-259.	2.3	0
51	Effect of zinc supplementation on in vitro copper-induced oxidation of low-density lipoproteins in healthy French subjects aged 55â€“70 years: the Zenith Study. British Journal of Nutrition, 2006, 95, 1134-1142.	2.3	18
52	The effect of aging on intestinal absorption and status of calcium, magnesium, zinc, and copper in rats: A stable isotope study. Journal of Trace Elements in Medicine and Biology, 2006, 20, 73-81.	3.0	49
53	Organic potassium salts or fibers effects on mineral balance and digestive fermentations in rats adapted to an acidogenic diet. European Journal of Nutrition, 2006, 45, 342-348.	3.9	5
54	Effects of zinc supplementation on cognitive function in healthy middle-aged and older adults: the ZENITH study. British Journal of Nutrition, 2006, 96, 752-60.	2.3	46

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55	Stable isotopes in studies of intestinal absorption, exchangeable pools and mineral status: The example of magnesium. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005, 19, 97-103.	3.0	9
56	Long-term moderate zinc supplementation increases exchangeable zinc pool masses in late-middle-aged men: the Zenith Study. <i>American Journal of Clinical Nutrition</i> , 2005, 82, 103-110.	4.7	26
57	Long-term moderate zinc supplementation increases exchangeable zinc pool masses in late-middle-aged men: the Zenith Study. <i>American Journal of Clinical Nutrition</i> , 2005, 82, 103-110.	4.7	27
58	The Stable Isotope Use in the Exploration of Bioavailability and Metabolism of Magnesium. <i>Current Nutrition and Food Science</i> , 2005, 1, 63-70.	0.6	2
59	Influence of Short-Chain Fructo-Oligosaccharides (sc-FOS) on Absorption of Cu, Zn, and Se in Healthy Postmenopausal Women. <i>Journal of the American College of Nutrition</i> , 2005, 24, 30-37.	1.8	34
60	Lycopene but not lutein nor zeaxanthin decreases in serum and lipoproteins in age-related macular degeneration patients. <i>Clinica Chimica Acta</i> , 2005, 357, 34-42.	1.1	65
61	Dietary inulin intake and age can significantly affect intestinal absorption of calcium and magnesium in rats: a stable isotope approach. <i>Nutrition Journal</i> , 2005, 4, 29.	3.4	51
62	Effect of Tomato Product Consumption on the Plasma Status of Antioxidant Microconstituents and on the Plasma Total Antioxidant Capacity in Healthy Subjects. <i>Journal of the American College of Nutrition</i> , 2004, 23, 148-156.	1.8	63
63	Effects of inulin-type fructans of different chain length and type of branching on intestinal absorption and balance of calcium and magnesium in rats. <i>European Journal of Nutrition</i> , 2003, 42, 91-98.	3.9	140
64	Effects of sulphate- and bicarbonate-rich mineral waters on net and fractional intestinal absorption and urinary excretion of magnesium in rats. <i>European Journal of Nutrition</i> , 2003, 42, 279-286.	3.9	5
65	Making bread with sourdough improves mineral bioavailability from reconstituted whole wheat flour in rats. <i>Nutrition</i> , 2003, 19, 524-530.	2.4	101
66	Dietary iron regulates hepatic hepcidin 1 and 2 mRNAs in mice. <i>Metabolism: Clinical and Experimental</i> , 2003, 52, 1229-1231.	3.4	33
67	Exchangeable magnesium pool masses in spontaneously hypertensive rats. <i>Metabolism: Clinical and Experimental</i> , 2003, 52, 626-630.	3.4	2
68	Wheat Variety has a Major Influence on Mineral Bioavailability; Studies in Rats. <i>Journal of Cereal Science</i> , 2003, 37, 257-266.	3.7	20
69	Effects of Dietary Fibers on Magnesium Absorption in Animals and Humans. <i>Journal of Nutrition</i> , 2003, 133, 1-4.	2.9	135
70	Effect of short-chain fructooligosaccharides on intestinal calcium absorption and calcium status in postmenopausal women: a stable-isotope study. <i>American Journal of Clinical Nutrition</i> , 2003, 77, 449-457.	4.7	132
71	Two Polyol, Low Digestible Carbohydrates Improve the Apparent Absorption of Magnesium but Not of Calcium in Healthy Young Men. <i>Journal of Nutrition</i> , 2003, 133, 90-93.	2.9	27
72	A New In Vitro Blood Load Test Using a Magnesium Stable Isotope for Assessment of Magnesium Status. <i>Journal of Nutrition</i> , 2003, 133, 1220-1223.	2.9	13

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73	Chronic oral administration of rhamnogalacturonan-II dimer, a pectic polysaccharide, failed to accelerate body lead detoxification after chronic lead exposure in rats. British Journal of Nutrition, 2002, 87, 47-54.	2.3	10
74	Exchangeable magnesium pool masses in healthy women: effects of magnesium supplementation. American Journal of Clinical Nutrition, 2002, 75, 72-78.	4.7	30
75	Fractional Intestinal Absorption of Magnesium Is Directly Proportional to Dietary Magnesium Intake in Rats. Journal of Nutrition, 2002, 132, 2043-2047.	2.9	19
76	Minerals and phytic acid interactions: is it a real problem for human nutrition?. International Journal of Food Science and Technology, 2002, 37, 727-739.	2.7	287
77	Effects of two fermentable carbohydrates (inulin and resistant starch) and their combination on calcium and magnesium balance in rats. British Journal of Nutrition, 2001, 86, 479-485.	2.3	215
78	Class 2 Resistant Starches Lower Plasma and Liver Lipids and Improve Mineral Retention in Rats. Journal of Nutrition, 2001, 131, 1283-1289.	2.9	131
79	Five-Week Intake of Short-Chain Fructo-Oligosaccharides Increases Intestinal Absorption and Status of Magnesium in Postmenopausal Women. Journal of Bone and Mineral Research, 2001, 16, 2152-2160.	2.8	94
80	Mineral supplementation of white wheat flour is necessary to maintain adequate mineral status and bone characteristics in rats. Journal of Trace Elements in Medicine and Biology, 2001, 15, 131-137.	3.0	13
81	DETERMINATION OF SALICYLATE HYDROXYLATION PRODUCTS AS AN IN VIVO OXIDATIVE STRESS MARKER. , 2001,, 177-183.		0
82	Fructooligosaccharides enhance mineral apparent absorption and counteract the deleterious effects of phytic acid on mineral homeostasis in rats. Journal of Nutritional Biochemistry, 2000, 11, 500-508.	4.2	120
83	Determination of salicylate hydroxylation products as an in vivo oxidative stress marker. Free Radical Biology and Medicine, 2000, 29, 1064-1070.	2.9	58
84	Effects of Acute and Chronic Coingestion of $AlCl_3$ with Citrate or Polyphenolic Acids on Tissue Retention and Distribution of Aluminum in Rats. Biological Trace Element Research, 2000, 76, 245-256.	3.5	32
85	Dietary Phytic Acid and Wheat Bran Enhance Mucosal Phytase Activity in Rat Small Intestine. Journal of Nutrition, 2000, 130, 2020-2025.	2.9	24
86	The Rhamnogalacturonan-II Dimer Decreases Intestinal Absorption and Tissue Accumulation of Lead in Rats. Journal of Nutrition, 2000, 130, 249-253.	2.9	36
87	Long-Term Consumption of Red Wine Does Not Modify Intestinal Absorption or Status of Zinc and Copper in Rats. Journal of Nutrition, 2000, 130, 1309-1313.	2.9	14
88	Exchangeable Magnesium Pool Masses Reflect the Magnesium Status of Rats. Journal of Nutrition, 2000, 130, 2306-2311.	2.9	11
89	Resistant starch improves mineral assimilation in rats adapted to a wheat bran diet. Nutrition Research, 2000, 20, 141-155.	2.9	43
90	Wholewheat flour ensures higher mineral absorption and bioavailability than white wheat flour in rats. British Journal of Nutrition, 1999, 82, 17-21.	2.3	38

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91	Effect of oral aluminum and aluminum citrate on blood level and short-term tissue distribution of aluminum in the rat. Biological Trace Element Research, 1998, 63, 139-147.	3.5	16
92	Short-term ingestion of chlorogenic or caffeic acids decreases zinc but not copper absorption in rats, utilization of stable isotopes and inductively-coupled plasma mass spectrometry technique. British Journal of Nutrition, 1998, 80, 575-584.	2.3	37
93	Intestinal Fermentation Lessens the Inhibitory Effects of Phytic Acid on Mineral Utilization in Rats. Journal of Nutrition, 1998, 128, 1192-1198.	2.9	86
94	Study of magnesium bioavailability using stable isotopes and the inductively-coupled plasma mass spectrometry technique in the rat: single and double labelling approaches. British Journal of Nutrition, 1997, 77, 957-970.	2.3	30
95	Selenium and antioxidant vitamin and lipidperoxidation levels in preaging French population. Biological Trace Element Research, 1997, 57, 183-190.	3.5	23
96	5-Hydroxymethyluracil excretion, plasma tbars and plasma antioxidant vitamins in adriamycin-treated patients. Free Radical Biology and Medicine, 1996, 20, 979-983.	2.9	61
97	Rapid High-Performance Liquid Chromatographic Assay for Salicylic Acid in Plasma Without Solvent Extraction. Journal of Chromatographic Science, 1996, 34, 166-173.	1.4	17
98	Assessment of radical activity during the acute phase of myocardial infarction following fibrinolysis: Utility of assaying plasma malondialdehyde. Free Radical Biology and Medicine, 1995, 19, 873-881.	2.9	30
99	Effect of antioxidants on adriamycin-induced microsomal lipid peroxidation. Biological Trace Element Research, 1995, 47, 111-116.	3.5	18
100	Lipid peroxidation products, and vitamin and trace element status in patients with cancer before and after chemotherapy, including adriamycin. Biological Trace Element Research, 1995, 47, 117-123.	3.5	79
101	Time-course of changes in plasma levels of trace elements after thrombolysis during the acute phase of myocardial infarction in humans. Biological Trace Element Research, 1995, 47, 171-182.	3.5	12
102	Relationship between severity of ischemia and oxidant scavenger enzyme activities in the isolated rat heart. International Journal of Biochemistry and Cell Biology, 1995, 27, 61-69.	2.8	15
103	Effect of double-blind cross-over selenium supplementation on lipid peroxidation markers in cystic fibrosis patients. Clinica Chimica Acta, 1995, 234, 137-146.	1.1	27
104	Effect of dietary antioxidant trace element supply on cardiac tolerance to ischemia/reperfusion in the rat. Journal of Molecular and Cellular Cardiology, 1995, 27, 2303-2314.	1.9	45
105	Zinc prevents the structural and functional properties of free radical treated-insulin. BBA - Proteins and Proteomics, 1994, 1209, 260-264.	2.1	25
106	Effect of ischemia/reperfusion sequence on cytosolic iron status and its release in the coronary effluent in isolated rat hearts. Biological Trace Element Research, 1994, 41, 69-75.	3.5	15
107	Inhibition of lipid peroxidation by a new family of iron chelators. Biological Trace Element Research, 1994, 41, 77-87.	3.5	10
108	Reversal of selenium and zinc deficiencies in chronic hemodialysis patients by intravenous sodium selenite and zinc gluconate supplementation. Biological Trace Element Research, 1993, 39, 149-159.	3.5	40

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109	Blood and liver lipid peroxide status after chronic ethanol administration in rats. Clinica Chimica Acta, 1993, 219, 35-45.	1.1	25
110	Evidence of cytosolic iron release during post-ischaemic reperfusion of isolated rat hearts Influence on spin-trapping experiments with DMPO. FEBS Letters, 1992, 302, 261-264.	2.8	26
111	Hydroxyl radical formation and lipid peroxidation enhancement by chromium. Biological Trace Element Research, 1992, 32, 161-170.	3.5	17
112	Zinc and insulin sensitivity. Biological Trace Element Research, 1992, 32, 305-310.	3.5	64
113	Effect of acute zinc deficiency on insulin receptor binding in rat adipocytes. Biological Trace Element Research, 1992, 32, 331-335.	3.5	11
114	Effects of a multivitamin mineral supplement on zinc and copper status during pregnancy. Biological Trace Element Research, 1992, 32, 405-414.	3.5	24
115	Zinc deficiency, ethanol, and myocardial ischemia affect lipoperoxidation in rats. Biological Trace Element Research, 1991, 30, 103-118.	3.5	36