

# Claus Schneider

## List of Publications by Year in descending order

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82

papers

4,286

citations

136950

32

h-index

110387

64

g-index

88

all docs

88

docs citations

88

times ranked

5343

citing authors

#	ARTICLE	IF	CITATIONS
1	Curcumin Inhibition of TGF $\beta$ 2 signaling in bone metastatic breast cancer cells and the possible role of oxidative metabolites. <i>Journal of Nutritional Biochemistry</i> , 2022, 99, 108842.	4.2	6
2	Protective Role of Spermidine in Colitis and Colon Carcinogenesis. <i>Gastroenterology</i> , 2022, 162, 813-827.e8.	1.3	40
3	Identification of G protein-coupled receptor 55 (GPR55) as a target of curcumin. <i>Npj Science of Food</i> , 2022, 6, 4.	5.5	10
4	Curcumin activates G protein-coupled receptor 97 (GPR97) in a manner different from glucocorticoid. <i>Biochemical and Biophysical Research Communications</i> , 2022, 595, 41-46.	2.1	5
5	Cystathionine $\beta$ -lyase exacerbates <i>Helicobacter pylori</i> immunopathogenesis by promoting macrophage metabolic remodeling and activation. <i>JCI Insight</i> , 2022, 7, .	5.0	8
6	Targeting Mammalian 5-Lipoxygenase by Dietary Phenolics as an Anti-Inflammatory Mechanism: A Systematic Review. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7937.	4.1	24
7	Biosynthetic Crossover of 5-Lipoxygenase and Cyclooxygenase-2 Yields 5-Hydroxy-PGE <sub>2</sub> and 5-Hydroxy-PGD <sub>2</sub> . <i>Jacs Au</i> , 2021, 1, 1380-1388.	7.9	6
8	Perspective on Improving the Relevance, Rigor, and Reproducibility of Botanical Clinical Trials: Lessons Learned From Turmeric Trials. <i>Frontiers in Nutrition</i> , 2021, 8, 782912.	3.7	4
9	Curcumin Oxidation Is Required for Inhibition of <i>Helicobacter pylori</i> Growth, Translocation and Phosphorylation of Cag A. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 765842.	3.9	9
10	Transformation of Prostaglandin D <sub>2</sub> to 11 $\beta$ -Dehydro Thromboxane B <sub>2</sub> by Baeyer-Villiger Oxidation. <i>Lipids</i> , 2020, 55, 73-78.	1.7	1
11	Bone-Specific Metabolism of Dietary Polyphenols in Resorptive Bone Diseases. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000072.	3.3	12
12	Spermine oxidase mediates <i>Helicobacter pylori</i> -induced gastric inflammation, DNA damage, and carcinogenic signaling. <i>Oncogene</i> , 2020, 39, 4465-4474.	5.9	46
13	Mechanistic Differences in the Inhibition of NF- $\kappa$ B by Turmeric and Its Curcuminoid Constituents. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6154-6160.	5.2	19
14	A Simple and Rapid Method to Measure Food Intake in Fish Using Brine Shrimp. <i>Zebrafish</i> , 2020, 17, 229-232.	1.1	0
15	Incomplete Hydrolysis of Curcumin Conjugates by $\beta$ -Glucuronidase: Detection of Complex Conjugates in Plasma. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1901037.	3.3	6
16	Inhibition of 5 $\alpha$ -Lipoxygenase-Derived Leukotrienes and Hemiketals as a Novel Anti-Inflammatory Mechanism of Urolithins. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000129.	3.3	16
17	Residual cyclooxygenase activity of aspirin-acetylated COX-2 forms 15 <i>R</i> -prostaglandins that inhibit platelet aggregation. <i>FASEB Journal</i> , 2019, 33, 1033-1041.	0.5	22
18	Curcumin induces secretion of glucagon-like peptide-1 through an oxidation-dependent mechanism. <i>Biochimie</i> , 2019, 165, 250-257.	2.6	11

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19	Dietary Arginine Regulates Severity of Experimental Colitis and Affects the Colonic Microbiome. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 66.	3.9	58
20	Beta-Glucuronidase Catalyzes Deconjugation and Activation of Curcumin-Glucuronide in Bone. <i>Journal of Natural Products</i> , 2019, 82, 500-509.	3.0	31
21	Î±-Difluoromethylornithine reduces gastric carcinogenesis by causing mutations in <i>Helicobacter pylori</i> cagY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5077-5085.	7.1	24
22	Bacterial Pathogens Hijack the Innate Immune Response by Activation of the Reverse Transsulfuration Pathway. <i>MBio</i> , 2019, 10, .	4.1	20
23	Curcumin, but not curcumin-glucuronide, inhibits Smad signaling in TGFÎ²2-dependent bone metastatic breast cancer cells and is enriched in bone compared to other tissues. <i>Journal of Nutritional Biochemistry</i> , 2019, 63, 150-156.	4.2	37
24	Stability and anti-inflammatory activity of the reduction-resistant curcumin analog, 2,6-dimethyl-curcumin. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3273-3281.	2.8	20
25	Structural and functional insights into S-thiolation of human serum albumins. <i>Scientific Reports</i> , 2018, 8, 932.	3.3	62
26	MNF's Upcoming Topics, Structure, and Standards in 2018. <i>Molecular Nutrition and Food Research</i> , 2018, 62, 1870014.	3.3	0
27	Thiol Reactivity of Curcumin and Its Oxidation Products. <i>Chemical Research in Toxicology</i> , 2018, 31, 269-276.	3.3	33
28	A Curcumin Degradation Product, 7-Norcyclopentadione, Formed by Aryl Migration and Loss of a Carbon from the Heptadienedione Chain. <i>Journal of Natural Products</i> , 2018, 81, 2756-2762.	3.0	3
29	Curcuminoid Content and Safety-Related Markers of Quality of Turmeric Dietary Supplements Sold in an Urban Retail Marketplace in the United States. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1800143.	3.3	29
30	Ornithine Decarboxylase in Macrophages Exacerbates Colitis and Promotes Colitis-Associated Colon Carcinogenesis by Impairing M1 Immune Responses. <i>Cancer Research</i> , 2018, 78, 4303-4315.	0.9	55
31	Distinct Immunomodulatory Effects of Spermine Oxidase in Colitis Induced by Epithelial Injury or Infection. <i>Frontiers in Immunology</i> , 2018, 9, 1242.	4.8	35
32	Total Synthesis and Biological Activity of the Arachidonic Acid Metabolite Hemiketal E <sub>2</sub> . <i>Organic Letters</i> , 2018, 20, 4020-4022.	4.6	13
33	Ornithine decarboxylase regulates M1 macrophage activation and mucosal inflammation via histone modifications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E751-E760.	7.1	150
34	Roles of 5-lipoxygenase and cyclooxygenase-2 in the biosynthesis of hemiketals E <sub>2</sub> and D <sub>2</sub> by activated human leukocytes. <i>FASEB Journal</i> , 2017, 31, 1867-1878.	0.5	17
35	Kaempferol increases levels of coenzyme Q in kidney cells and serves as a biosynthetic ring precursor. <i>Free Radical Biology and Medicine</i> , 2017, 110, 176-187.	2.9	32
36	A fungal catalase reacts selectively with the 13S fatty acid hydroperoxide products of the adjacent lipoxygenase gene and exhibits 13S-hydroperoxide-dependent peroxidase activity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 706-715.	2.4	12

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37	Oxidative metabolism of curcumin-glucuronide by peroxidases and isolated human leukocytes. <i>Biochemical Pharmacology</i> , 2017, 132, 143-149.	4.4	23
38	The anti-inflammatory activity of curcumin is mediated by its oxidative metabolites. <i>Journal of Biological Chemistry</i> , 2017, 292, 21243-21252.	3.4	125
39	Biomimetic synthesis of hemiketal eicosanoids for biological testing. <i>Prostaglandins and Other Lipid Mediators</i> , 2017, 132, 41-46.	1.9	10
40	Degradation of Curcumin: From Mechanism to Biological Implications. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 7606-7614.	5.2	301
41	Unraveling Curcumin Degradation. <i>Journal of Biological Chemistry</i> , 2015, 290, 4817-4828.	3.4	129
42	Oxidative Transformation of Demethoxy- and Bisdemethoxycurcumin: Products, Mechanism of Formation, and Poisoning of Human Topoisomerase II $\alpha$ . <i>Chemical Research in Toxicology</i> , 2015, 28, 989-996.	3.3	66
43	Cyclooxygenase-2 catalysis and inhibition in lipid bilayer nanodiscs. <i>Archives of Biochemistry and Biophysics</i> , 2014, 546, 33-40.	3.0	21
44	Oxidative Metabolites of Curcumin Poison Human Type II Topoisomerases. <i>Biochemistry</i> , 2013, 52, 221-227.	2.5	61
45	Facile synthesis of deuterated and [14C]labeled analogs of vanillin and curcumin for use as mechanistic and analytical tools. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2013, 56, 696-699.	1.0	20
46	COX-2-dependent and -independent biosynthesis of dihydroxy-arachidonic acids in activated human leukocytes. <i>Journal of Lipid Research</i> , 2012, 53, 87-94.	4.2	21
47	Vanillin and ferulic acid: not the major degradation products of curcumin. <i>Trends in Molecular Medicine</i> , 2012, 18, 361-363.	6.7	84
48	Cyclooxygenases and lipoxygenases in cancer. <i>Cancer and Metastasis Reviews</i> , 2011, 30, 277-294.	5.9	138
49	Biosynthesis of hemiketal eicosanoids by cross-over of the 5-lipoxygenase and cyclooxygenase-2 pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6945-6950.	7.1	20
50	Autoxidative and Cyclooxygenase-2 Catalyzed Transformation of the Dietary Chemopreventive Agent Curcumin. <i>Journal of Biological Chemistry</i> , 2011, 286, 1114-1124.	3.4	123
51	Identification and absolute configuration of dihydroxy-arachidonic acids formed by oxygenation of 5S-HETE by native and aspirin-acetylated COX-2. <i>Journal of Lipid Research</i> , 2010, 51, 575-585.	4.2	23
52	Convergence of the 5-LOX and COX-2 pathways: heme-catalyzed cleavage of the 5S-HETE-derived di-endoperoxide into aldehyde fragments. <i>Journal of Lipid Research</i> , 2009, 50, 2455-2462.	4.2	32
53	An update on products and mechanisms of lipid peroxidation. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 315-321.	3.3	81
54	Evidence for an Ionic Intermediate in the Transformation of Fatty Acid Hydroperoxide by a Catalase-related Allene Oxide Synthase from the Cyanobacterium <i>Acartyochloris marina</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 22087-22098.	3.4	39

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55	Routes to 4-Hydroxynonenal: Fundamental Issues in the Mechanisms of Lipid Peroxidation. <i>Journal of Biological Chemistry</i> , 2008, 283, 15539-15543.	3.4	228
56	Intermolecular Peroxyl Radical Reactions during Autoxidation of Hydroxy and Hydroperoxy Arachidonic Acids Generate a Novel Series of Epoxidized Products. <i>Chemical Research in Toxicology</i> , 2008, 21, 895-903.	3.3	50
57	A 49-kDa Mini-lipoxygenase from <i>Anabaena</i> sp. PCC 7120 Retains Catalytically Complete Functionality. <i>Journal of Biological Chemistry</i> , 2008, 283, 5138-5147.	3.4	50
58	Enantiomeric Separation of Hydroxy and Hydroperoxy Eicosanoids by Chiral Column Chromatography. <i>Methods in Enzymology</i> , 2007, 433, 145-157.	1.0	46
59	Enzymatic synthesis of a bicyclobutane fatty acid by a hemoprotein-lipoxygenase fusion protein from the cyanobacterium <i>Anabaena</i> PCC 7120. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18941-18945.	7.1	56
60	Book News: Stress, Obesity, and Metabolic Syndrome. Edited by George P. Chrousos and Constantine Tsigos. <i>Molecular Nutrition and Food Research</i> , 2007, 51, 1554-1554.	3.3	0
61	Control of Oxygenation in Lipoxygenase and Cyclooxygenase Catalysis. <i>Chemistry and Biology</i> , 2007, 14, 473-488.	6.0	265
62	The hepxilin connection in the epidermis. <i>FEBS Journal</i> , 2007, 274, 3494-3502.	4.7	65
63	Molecular Dynamics Simulations of Arachidonic Acid-Derived Pentadienyl Radical Intermediate Complexes with COX-1 and COX-2: Insights into Oxygenation Regio- and Stereoselectivity. <i>Biochemistry</i> , 2006, 45, 3206-3218.	2.5	35
64	Convergent Oxygenation of Arachidonic Acid by 5-Lipoxygenase and Cyclooxygenase-2. <i>Journal of the American Chemical Society</i> , 2006, 128, 720-721.	13.7	33
65	Human cyclo-oxygenase-1 and an alternative splice variant: contrasts in expression of mRNA, protein and catalytic activities. <i>Biochemical Journal</i> , 2005, 385, 57-64.	3.7	26
66	Chemistry and biology of vitamin E. <i>Molecular Nutrition and Food Research</i> , 2005, 49, 7-30.	3.3	441
67	Synthesis of dihydroperoxides of linoleic and linolenic acids and studies on their transformation to 4-hydroperoxynonenal. <i>Lipids</i> , 2005, 40, 1155-1162.	1.7	51
68	Identification of Two Cyclooxygenase Active Site Residues, Leucine 384 and Glycine 526, That Control Carbon Ring Cyclization in Prostaglandin Biosynthesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 4404-4414.	3.4	44
69	Upregulation of 8-Lipoxygenase in the Dermatitis of IL-13-Deficient Mice. <i>Journal of Investigative Dermatology</i> , 2004, 122, 691-698.	0.7	19
70	Autoxidative Transformation of Chiral $\gamma$ -Hydroxy Linoleic and Arachidonic Acids to Chiral 4-Hydroxy-2E-nonenal. <i>Chemical Research in Toxicology</i> , 2004, 17, 937-941.	3.3	56
71	Control of Prostaglandin Stereochemistry at the 15-Carbon by Cyclooxygenases-1 and -2. <i>Journal of Biological Chemistry</i> , 2002, 277, 478-485.	3.4	70
72	Lipoxygenase-catalyzed formation of R-configuration hydroperoxides. <i>Prostaglandins and Other Lipid Mediators</i> , 2002, 68-69, 291-301.	1.9	26

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73	Detection of the 15-acetate of prostaglandin E2 methyl ester as a prominent component of the prostaglandins in the gorgonian coral <i>Plexaura homomalla</i> . <i>Lipids</i> , 2002, 37, 217-221.	1.7	11
74	Analysis of Cyclooxygenase-Substrate Interactions Using Stereospecificallylabeled Arachidonic Acids. <i>Advances in Experimental Medicine and Biology</i> , 2002, 507, 49-53.	1.6	1
75	Detection and Cellular Localization of 12R-Lipoxygenase in Human Tonsils. <i>Archives of Biochemistry and Biophysics</i> , 2001, 386, 268-274.	3.0	24
76	Two Distinct Pathways of Formation of 4-Hydroxynonenal. <i>Journal of Biological Chemistry</i> , 2001, 276, 20831-20838.	3.4	264
77	Enantiomeric Separation of Hydroxy Eicosanoids by Chiral Column Chromatography: Effect of the Alcohol Modifier. <i>Analytical Biochemistry</i> , 2000, 287, 186-189.	2.4	50
78	Spatial Requirements for 15-(R)-Hydroxy-5Z,8Z,11Z,13E-eicosatetraenoic Acid Synthesis within the Cyclooxygenase Active Site of Murine COX-2. <i>Journal of Biological Chemistry</i> , 2000, 275, 6586-6591.	3.4	75
79	Stereospecificity of Hydrogen Abstraction in the Conversion of Arachidonic Acid to 15R-HETE by Aspirin-treated Cyclooxygenase-2. <i>Journal of Biological Chemistry</i> , 2000, 275, 4743-4746.	3.4	68
80	2-[(4 $\epsilon^3$ -Hydroxy-3 $\epsilon^2$ -methoxy)-phenoxy]-4-(4 $\epsilon^3$ -hydroxy-3 $\epsilon^3$ -methoxy-phenyl)-8-hydroxy-6-oxo-3-oxabicyclo[3.3.0]-7-octene: unusual product of the soybean lipoxygenase-catalyzed oxygenation of curcumin. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1998, 4, 219-227.	1.8	18
81	Catalytic properties of allene oxide synthase from flaxseed ( <i>Linum usitatissimum</i> L.). <i>Lipids</i> , 1998, 33, 191-196.	1.7	11
82	A Fatty Acid $\beta$ -Ketol, a Product of the Plant Lipoxygenase Pathway, Is Oxidized to 3(Z)-Dodecendioic Acid by a Bacterial Monooxygenase. <i>Biochemical and Biophysical Research Communications</i> , 1997, 232, 364-366.	2.1	8