

Sean S Davies

List of Publications by Year in descending order

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95
papers

6,255
citations

87843

38
h-index

71651

76
g-index

105
all docs

105
docs citations

105
times ranked

9078
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Clinical Relevance of Biomarkers of Oxidative Stress. Antioxidants and Redox Signaling, 2015, 23, 1144-1170. | 2.5 | 604 |
| 2 | Flecainide prevents catecholaminergic polymorphic ventricular tachycardia in mice and humans. Nature Medicine, 2009, 15, 380-383. | 15.2 | 539 |
| 3 | Microbial metabolism of dietary components to bioactive metabolites: opportunities for new therapeutic interventions. Genome Medicine, 2016, 8, 46. | 3.6 | 402 |
| 4 | DC isoketal-modified proteins activate T cells and promote hypertension. Journal of Clinical Investigation, 2014, 124, 4642-4656. | 3.9 | 400 |
| 5 | Isoprostane Generation and Function. Chemical Reviews, 2011, 111, 5973-5996. | 23.0 | 257 |
| 6 | Oxidized Alkyl Phospholipids Are Specific, High Affinity Peroxisome Proliferator-activated Receptor β Ligands and Agonists. Journal of Biological Chemistry, 2001, 276, 16015-16023. | 1.6 | 243 |
| 7 | Corynebacterium accolens Releases Antipneumococcal Free Fatty Acids from Human Nostril and Skin Surface Triacylglycerols. MBio, 2016, 7, e01725-15. | 1.8 | 235 |
| 8 | Incorporation of therapeutically modified bacteria into gut microbiota inhibits obesity. Journal of Clinical Investigation, 2014, 124, 3391-3406. | 3.9 | 227 |
| 9 | Immune activation caused by vascular oxidation promotes fibrosis and hypertension. Journal of Clinical Investigation, 2015, 126, 50-67. | 3.9 | 170 |
| 10 | Inflammatory Platelet-activating Factor-like Phospholipids in Oxidized Low Density Lipoproteins Are Fragmented Alkyl Phosphatidylcholines. Journal of Biological Chemistry, 1999, 274, 28395-28404. | 1.6 | 169 |
| 11 | F2-isoprostanes as an indicator and risk factor for coronary heart disease. Free Radical Biology and Medicine, 2011, 50, 559-566. | 1.3 | 134 |
| 12 | Elimination of GD3 synthase improves memory and reduces amyloid- β plaque load in transgenic mice. Neurobiology of Aging, 2009, 30, 1777-1791. | 1.5 | 118 |
| 13 | Oxidative Mediated Lipid Peroxidation Recapitulates Proarrhythmic Effects on Cardiac Sodium Channels. Circulation Research, 2005, 97, 1262-1269. | 2.0 | 117 |
| 14 | Tart Cherry Juice Decreases Oxidative Stress in Healthy Older Men and Women , ,. Journal of Nutrition, 2009, 139, 1896-1900. | 1.3 | 114 |
| 15 | Effects of reactive β -ketoaldehydes formed by the isoprostane pathway (isoketals) and cyclooxygenase pathway (levuglandins) on proteasome function. FASEB Journal, 2002, 16, 715-717. | 0.2 | 101 |
| 16 | The Biochemistry of the Isoprostane, Neuroprostane, and Isofuran Pathways of Lipid Peroxidation. Brain Pathology, 2005, 15, 143-148. | 2.1 | 95 |
| 17 | Formation of Highly Reactive β -Ketoaldehydes (Neuroketals) as Products of the Neuroprostane Pathway. Journal of Biological Chemistry, 2001, 276, 30964-30970. | 1.6 | 90 |
| 18 | Dietary Selenium Deficiency Exacerbates DSS-Induced Epithelial Injury and AOM/DSS-Induced Tumorigenesis. PLoS ONE, 2013, 8, e67845. | 1.1 | 84 |

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|----|--|-----|-----------|
| 19 | Pyridoxamine: An Extremely Potent Scavenger of 1,4-Dicarbonyls. <i>Chemical Research in Toxicology</i> , 2004, 17, 410-415. | 1.7 | 83 |
| 20 | Aging, Resting Metabolic Rate, and Oxidative Damage: Results From the Louisiana Healthy Aging Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 752-759. | 1.7 | 79 |
| 21 | Modification of Proteins by Isoketal-containing Oxidized Phospholipids. <i>Journal of Biological Chemistry</i> , 2004, 279, 13447-13451. | 1.6 | 78 |
| 22 | Lipid peroxidation generates biologically active phospholipids including oxidatively N-modified phospholipids. <i>Chemistry and Physics of Lipids</i> , 2014, 181, 1-33. | 1.5 | 67 |
| 23 | Isoketals: highly reactive $\hat{1}^3$ -ketoaldehydes formed from the H2-isoprostane pathway. <i>Chemistry and Physics of Lipids</i> , 2004, 128, 85-99. | 1.5 | 66 |
| 24 | Oxidant stress modulates murine allergic airway responses. <i>Free Radical Biology and Medicine</i> , 2006, 40, 1210-1219. | 1.3 | 64 |
| 25 | Pyridoxamine Analogues Scavenge Lipid-Derived $\hat{1}^3$ -Ketoaldehydes and Protect against H2O2-Mediated Cytotoxicity. <i>Biochemistry</i> , 2006, 45, 15756-15767. | 1.2 | 62 |
| 26 | Evidence of Oxidative Stress in Relation to Feeding Type During Early Life in Premature Infants. <i>Pediatric Research</i> , 2011, 69, 160-164. | 1.1 | 61 |
| 27 | Oxidative stress in older adults: effects of physical fitness. <i>Age</i> , 2012, 34, 969-982. | 3.0 | 56 |
| 28 | Localization of isoketal adducts in vivo using a single-chain antibody. <i>Free Radical Biology and Medicine</i> , 2004, 36, 1163-1174. | 1.3 | 53 |
| 29 | Hydrolysis of Bimatoprost (Lumigan) to its Free Acid by Ocular Tissue In Vitro. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2003, 19, 45-54. | 0.6 | 52 |
| 30 | Quantification of dinor,dihydro metabolites of F2-isoprostanes in urine by liquid chromatography/tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2006, 348, 185-191. | 1.1 | 49 |
| 31 | Isoketals form cytotoxic phosphatidylethanolamine adducts in cells. <i>Journal of Lipid Research</i> , 2010, 51, 999-1009. | 2.0 | 49 |
| 32 | Analysis of oxidized glycerophosphocholine lipids using electrospray ionization mass spectrometry and microderivatization techniques. , 2000, 35, 224-236. | | 46 |
| 33 | Phosphatidylethanolamines Modified by $\hat{1}^3$ -Ketoaldehyde ($\hat{1}^3$ KA) Induce Endoplasmic Reticulum Stress and Endothelial Activation. <i>Journal of Biological Chemistry</i> , 2011, 286, 18170-18180. | 1.6 | 46 |
| 34 | Covalent binding of isoketals to ethanolamine phospholipids. <i>Free Radical Biology and Medicine</i> , 2004, 37, 1604-1611. | 1.3 | 45 |
| 35 | Modification by isolevuglandins, highly reactive $\hat{1}^3$ -ketoaldehydes, deleteriously alters high-density lipoprotein structure and function. <i>Journal of Biological Chemistry</i> , 2018, 293, 9176-9187. | 1.6 | 44 |
| 36 | Arachidonic Acid Kills Staphylococcus aureus through a Lipid Peroxidation Mechanism. <i>MBio</i> , 2019, 10, . | 1.8 | 44 |

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|----|--|-----|-----------|
| 37 | Identification of novel bioactive aldehyde-modified phosphatidylethanolamines formed by lipid peroxidation. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1226-1238. | 1.3 | 43 |
| 38 | Measurement of chronic oxidative and inflammatory stress by quantification of isoketal/levuglandin \hat{I}^3 -ketoaldehyde protein adducts using liquid chromatography tandem mass spectrometry. <i>Nature Protocols</i> , 2007, 2, 2079-2091. | 5.5 | 42 |
| 39 | Sodium activates human monocytes via the NADPH oxidase and isolevuglandin formation. <i>Cardiovascular Research</i> , 2021, 117, 1358-1371. | 1.8 | 41 |
| 40 | Treatment with a \hat{I}^3 -Ketoaldehyde Scavenger Prevents Working Memory Deficits in hApoE4 Mice. <i>Journal of Alzheimer's Disease</i> , 2011, 27, 49-59. | 1.2 | 40 |
| 41 | Dendritic cells and isolevuglandins in immunity, inflammation, and hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H368-H374. | 1.5 | 40 |
| 42 | Reactive \hat{I}^3 -ketoaldehydes formed via the isoprostane pathway disrupt mitochondrial respiration and calcium homeostasis. <i>Free Radical Biology and Medicine</i> , 2010, 49, 567-579. | 1.3 | 39 |
| 43 | Scavenging of reactive dicarbonyls with 2-hydroxybenzylamine reduces atherosclerosis in hypercholesterolemic Ldlr \hat{I}^3 mice. <i>Nature Communications</i> , 2020, 11, 4084. | 5.8 | 39 |
| 44 | Reactive Carbonyl Species Scavengers \hat{I}^3 Novel Therapeutic Approaches for Chronic Diseases. <i>Current Pharmacology Reports</i> , 2017, 3, 51-67. | 1.5 | 36 |
| 45 | Effect of Drug Therapy on Net Cholesterol Efflux Capacity of High \hat{I}^3 Density Lipoprotein \hat{I}^3 Enriched Serum in Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2016, 68, 2099-2105. | 2.9 | 35 |
| 46 | A liquid chromatography \hat{I}^3 tandem mass spectrometry method for measurement of N-modified phosphatidylethanolamines. <i>Analytical Biochemistry</i> , 2010, 405, 236-245. | 1.1 | 33 |
| 47 | Neuron-Specific Deletion of Peroxisome Proliferator-Activated Receptor Delta (PPAR \hat{I}^3) in Mice Leads to Increased Susceptibility to Diet-Induced Obesity. <i>PLoS ONE</i> , 2012, 7, e42981. | 1.1 | 33 |
| 48 | A Simplified Synthesis of the Diastereomers of Levuglandin E2. <i>Synthetic Communications</i> , 2005, 35, 397-408. | 1.1 | 31 |
| 49 | DC ENaC-Dependent Inflammasome Activation Contributes to Salt-Sensitive Hypertension. <i>Circulation Research</i> , 2022, 131, 328-344. | 2.0 | 31 |
| 50 | Levuglandinyl Adducts of Proteins Are Formed via a Prostaglandin H2 Synthase-dependent Pathway after Platelet Activation. <i>Journal of Biological Chemistry</i> , 2003, 278, 16926-16928. | 1.6 | 29 |
| 51 | Determination of the Pharmacokinetics and Oral Bioavailability of Salicylamine, a Potent \hat{I}^3 -Ketoaldehyde Scavenger, by LC/MS/MS. <i>Pharmaceutics</i> , 2010, 2, 18-29. | 2.0 | 28 |
| 52 | Administration of N-Acyl-Phosphatidylethanolamine Expressing Bacteria to Low Density Lipoprotein Receptor \hat{I}^3 Mice Improves Indices of Cardiometabolic Disease. <i>Scientific Reports</i> , 2019, 9, 420. | 1.6 | 28 |
| 53 | Reactive \hat{I}^3 -ketoaldehydes promote protein misfolding and preamyloid oligomer formation in rapidly-activated atrial cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 79, 295-302. | 0.9 | 27 |
| 54 | Isolevuglandins as mediators of disease and the development of dicarbonyl scavengers as pharmaceutical interventions. , 2020, 205, 107418. | | 27 |

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|----|---|-----|-----------|
| 55 | Isolevuglandin-Type Lipid Aldehydes Induce the Inflammatory Response of Macrophages by Modifying Phosphatidylethanolamines and Activating the Receptor for Advanced Glycation Endproducts. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 1633-1645. | 2.5 | 25 |
| 56 | Amitriptyline Activates Cardiac Ryanodine Channels and Causes Spontaneous Sarcoplasmic Reticulum Calcium Release. <i>Molecular Pharmacology</i> , 2009, 75, 183-195. | 1.0 | 24 |
| 57 | Accumulation of isolevuglandin-modified protein in normal and fibrotic lung. <i>Scientific Reports</i> , 2016, 6, 24919. | 1.6 | 21 |
| 58 | Low concentrations of reactive β -ketoaldehydes prime thromboxane-dependent human platelet aggregation via p38-MAPK activation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 307-313. | 1.2 | 20 |
| 59 | Engineering the gut microbiota to treat chronic diseases. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7657-7671. | 1.7 | 19 |
| 60 | Ischemia/reperfusion unveils impaired capacity of older adults to restrain oxidative insult. <i>Free Radical Biology and Medicine</i> , 2009, 47, 1014-1018. | 1.3 | 18 |
| 61 | Bioactive aldehyde-modified phosphatidylethanolamines. <i>Biochimie</i> , 2013, 95, 74-78. | 1.3 | 18 |
| 62 | Mitochondrial Isolevuglandins Contribute to Vascular Oxidative Stress and Mitochondria-Targeted Scavenger of Isolevuglandins Reduces Mitochondrial Dysfunction and Hypertension. <i>Hypertension</i> , 2020, 76, 1980-1991. | 1.3 | 17 |
| 63 | Highly Reactive Isolevuglandins Promote Atrial Fibrillation Caused by Hypertension. <i>JACC Basic To Translational Science</i> , 2020, 5, 602-615. | 1.9 | 17 |
| 64 | Modified sites and functional consequences of 4-oxo-2-nonenal adducts in HDL that are elevated in familial hypercholesterolemia. <i>Journal of Biological Chemistry</i> , 2019, 294, 19022-19033. | 1.6 | 16 |
| 65 | Net cholesterol efflux capacity of HDL enriched serum and coronary atherosclerosis in rheumatoid arthritis. <i>IJC Metabolic & Endocrine</i> , 2016, 13, 6-11. | 0.5 | 15 |
| 66 | Leptogenic effects of NAPE require activity of NAPE-hydrolyzing phospholipase D. <i>Journal of Lipid Research</i> , 2017, 58, 1624-1635. | 2.0 | 15 |
| 67 | Dietary Fatty Acids Control the Species of N -Acyl-Phosphatidylethanolamines Synthesized by Therapeutically Modified Bacteria in the Intestinal Tract. <i>ACS Infectious Diseases</i> , 2018, 4, 3-13. | 1.8 | 15 |
| 68 | Isolevuglandins disrupt PU.1-mediated C1q expression and promote autoimmunity and hypertension in systemic lupus erythematosus. <i>JCI Insight</i> , 2022, 7, . | 2.3 | 15 |
| 69 | Potential Role of Isoketals Formed Via the Isoprostane Pathway of Lipid Peroxidation in Ischemic Arrhythmias. <i>Journal of Cardiovascular Pharmacology</i> , 2007, 50, 480-486. | 0.8 | 14 |
| 70 | Symmetrically substituted dichlorophenes inhibit N -acyl-phosphatidylethanolamine phospholipase D. <i>Journal of Biological Chemistry</i> , 2020, 295, 7289-7300. | 1.6 | 14 |
| 71 | Isolevuglandin-modified phosphatidylethanolamine is metabolized by NAPE-hydrolyzing phospholipase D. <i>Journal of Lipid Research</i> , 2013, 54, 3151-3157. | 2.0 | 13 |
| 72 | Targeting of reactive isolevuglandins in mitochondrial dysfunction and inflammation. <i>Redox Biology</i> , 2019, 26, 101300. | 3.9 | 13 |

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|----|--|-----|-----------|
| 73 | Simplified LC/MS assay for the measurement of isolevuglandin protein adducts in plasma and tissue samples. <i>Analytical Biochemistry</i> , 2019, 566, 89-101. | 1.1 | 13 |
| 74 | Scavenging Reactive Lipids to Prevent Oxidative Injury. <i>Annual Review of Pharmacology and Toxicology</i> , 2021, 61, 291-308. | 4.2 | 13 |
| 75 | Myeloperoxidase-induced modification of HDL by isolevuglandins inhibits paraoxonase-1 activity. <i>Journal of Biological Chemistry</i> , 2021, 297, 101019. | 1.6 | 13 |
| 76 | Modulation of Protein Function by Isoketals and Levuglandins. <i>Sub-Cellular Biochemistry</i> , 2008, 49, 49-70. | 1.0 | 13 |
| 77 | Antibodies as targeting moieties: affinity measurements, conjugation chemistry and applications in immunoliposomes. <i>Journal of Controlled Release</i> , 1994, 28, 155-166. | 4.8 | 12 |
| 78 | Isolevuglandins and cardiovascular disease. <i>Prostaglandins and Other Lipid Mediators</i> , 2018, 139, 29-35. | 1.0 | 12 |
| 79 | Reactive Dicarboxyl Scavenging Effectively Reduces MPO-Mediated Oxidation of HDL and Restores PON1 Activity. <i>Nutrients</i> , 2020, 12, 1937. | 1.7 | 12 |
| 80 | Reactive gamma-ketoaldehydes as novel activators of hepatic stellate cells in vitro. <i>Free Radical Biology and Medicine</i> , 2017, 102, 162-173. | 1.3 | 11 |
| 81 | Kidney injury-mediated disruption of intestinal lymphatics involves dicarbonyl-modified lipoproteins. <i>Kidney International</i> , 2021, 100, 585-596. | 2.6 | 11 |
| 82 | Two-week administration of engineered <i>Escherichia coli</i> establishes persistent resistance to diet-induced obesity even without antibiotic pre-treatment. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6711-6723. | 1.7 | 10 |
| 83 | Lipidomic approaches to measuring isoprostanes and other markers of oxidative stress. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 64-74. | 1.0 | 4 |
| 84 | Selective measurement of NAPE-PLD activity via a PLA1/2-resistant fluorogenic N-acyl-phosphatidylethanolamine analog. <i>Journal of Lipid Research</i> , 2022, 63, 100156. | 2.0 | 4 |
| 85 | Elucidation of physico-chemical principles of high-density lipoproteinâ€™small RNA binding interactions. <i>Journal of Biological Chemistry</i> , 2022, 298, 101952. | 1.6 | 4 |
| 86 | Pro-inflammatory HDL in women with obesity and nonalcoholic steatohepatitis. <i>Obesity Research and Clinical Practice</i> , 2020, 14, 333-338. | 0.8 | 3 |
| 87 | Progressively decreasing plasma high-density lipoprotein cholesterol levels preceding diagnosis of smoldering myeloma. <i>Journal of Clinical Lipidology</i> , 2020, 14, 293-296. | 0.6 | 2 |
| 88 | Measurement of Isoketal Protein Adducts by Liquid Chromatography-Electrospray Ionization/Tandem Mass Spectrometry. , 2003, , 127-136. | | 1 |
| 89 | Direct Detection of Isolevuglandins in Tissues using a D11 scFv-Alkaline Phosphatase Fusion Protein and Immunofluorescence. <i>Journal of Visualized Experiments</i> , 2021, , . | 0.2 | 1 |
| 90 | A Simple and Rapid Method to Measure Food Intake in Fish Using Brine Shrimp. <i>Zebrafish</i> , 2020, 17, 229-232. | 0.5 | 0 |

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|----|--|-----|-----------|
| 91 | Effect of Hypertension on Dendritic Cells and a potential role of Isoketals. FASEB Journal, 2012, 26, 872.16. | 0.2 | 0 |
| 92 | Oxidative Insult After Ischemia/Reperfusion in Older Adults. , 2013, , 263-284. | | 0 |
| 93 | Superoxide and Isoketal formation in Dendritic Cells from Hypertensive mice activate T cells and promote Hypertension. FASEB Journal, 2013, 27, 708.7. | 0.2 | 0 |
| 94 | A novel mechanism of NO synthase uncoupling involving isolevuglandin adduction. FASEB Journal, 2018, 32, 715.4. | 0.2 | 0 |
| 95 | Alcohol + PLD = Phosphatidylethanol, a Long-term Alcohol Biomarker. FASEB Journal, 2019, 33, 635.16. | 0.2 | 0 |