# Edward A Dennis

## List of Publications by Year in Descending Order



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| 341 papers | 30,025 citations | 87 h-index | 164 g-index |
| 368 ext. papers | 33,009 ext. citations | 6.8 avg, IF | 7.26 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 341 | Each phospholipase A type exhibits distinct selectivity toward sn-1 ester, alkyl ether, and vinyl ether phospholipids. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2022**, 1867, 159067 | 5 | 0 |
| 340 | Allosteric regulation by membranes and hydrophobic subsites in phospholipase A enzymes determine their substrate specificity.. *Journal of Biological Chemistry*, **2022**, 101873 | 5.4 | 0 |
| 339 | Omega-3 Versus Omega-6 Fatty Acid Availability is Controlled by Hydrophobic Site Geometries of Phospholipase As. *Journal of Lipid Research*, **2021**, 100113 | 6.3 | 1 |
| 338 | Quality control requirements for the correct annotation of lipidomics data. *Nature Communications*, **2021**, 12, 4771 | 17.4 | 16 |
| 337 | Efficacy of dietary odd-chain saturated fatty acid pentadecanoic acid parallels broad associated health benefits in humans: could it be essential?. *Scientific Reports*, **2020**, 10, 8161 | 4.9 | 37 |
| 336 | Plasma eicosanoids as noninvasive biomarkers of liver fibrosis in patients with nonalcoholic steatohepatitis. *Therapeutic Advances in Gastroenterology*, **2020**, 13, 1756284820923904 | 4.7 | 9 |
| 335 | 2-Oxoester Phospholipase A Inhibitors with Enhanced Metabolic Stability. *Biomolecules*, **2020**, 10, | 5.9 | 2 |
| 334 | Lipidomics-based assays coupled with computational approaches can identify novel phospholipase A inhibitors. *Advances in Biological Regulation*, **2020**, 76, 100719 | 6.2 | 0 |
| 333 | PPAR exacerbates necroptosis, leading to increased mortality in postinfluenza bacterial superinfection. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15789-15798 | 11.5 | 5 |
| 332 | Enzyme Hydrophobic Sites and Allosteric Membrane Interactions Regulate Signaling and Mediators of Inflammation. *FASEB Journal*, **2020**, 34, 1-1 | 0.9 | |
| 331 | The Role of Phospholipases in Phosphatidylcholine Catabolism **2020**, 121-142 | | |
| 330 | Unique Substrate Specificity of Human Phospholipase A2s. *FASEB Journal*, **2020**, 34, 1-1 | 0.9 | 1 |
| 329 | IL-17 signaling in steatotic hepatocytes and macrophages promotes hepatocellular carcinoma in alcohol-related liver disease. *Journal of Hepatology*, **2020**, 72, 946-959 | 13.4 | 42 |
| 328 | Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. *Journal of Lipid Research*, **2020**, 61, 1539-1555 | 6.3 | 119 |
| 327 | Automated Annotation of Sphingolipids Including Accurate Identification of Hydroxylation Sites Using MS Data. *Analytical Chemistry*, **2020**, 92, 14054-14062 | 7.8 | 12 |
| 326 | A global lipid map defines a network essential for Zika virus replication. *Nature Communications*, **2020**, 11, 3652 | 17.4 | 23 |
| 325 | Steps Toward Minimal Reporting Standards for Lipidomics Mass Spectrometry in Biomedical Research Publications. *Circulation Genomic and Precision Medicine*, **2020**, 13, e003019 | 5.2 | 4 |

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| 324 | Cytosolic group IVA phospholipase A2 inhibitors, AVX001 and AVX002, ameliorate collagen-induced arthritis. *Arthritis Research and Therapy*, **2019**, 21, 29 | 5.7 | 8 |
| 323 | AMP-activated protein kinase activation ameliorates eicosanoid dysregulation in high-fat-induced kidney disease in mice. *Journal of Lipid Research*, **2019**, 60, 937-952 | 6.3 | 6 |
| 322 | Unique enzyme specificity of three human phospholipases A2 toward phospholipids containing sn-2 omega-3 and omega-6 fatty acids. *FASEB Journal*, **2019**, 33, 489.4 | 0.9 | 0 |
| 321 | -Lactones: A Novel Class of Ca-Independent Phospholipase A (Group VIA iPLA) Inhibitors with the Ability To Inhibit -Cell Apoptosis. *Journal of Medicinal Chemistry*, **2019**, 62, 2916-2927 | 8.3 | 6 |
| 320 | Phospholipase A catalysis and lipid mediator lipidomics. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2019**, 1864, 766-771 | 5 | 50 |
| 319 | Directed Non-targeted Mass Spectrometry and Chemical Networking for Discovery of Eicosanoids and Related Oxylipins. *Cell Chemical Biology*, **2019**, 26, 433-442.e4 | 8.2 | 35 |
| 318 | LIPID MAPS: Serving the next generation of lipid researchers with tools, resources, data, and training. *Science Signaling*, **2019**, 12, | 8.8 | 45 |
| 317 | Substrate-Specific Inhibition Constants for Phospholipase A Acting on Unique Phospholipid Substrates in Mixed Micelles and Membranes Using Lipidomics. *Journal of Medicinal Chemistry*, **2019**, 62, 1999-2007 | 8.3 | 8 |
| 316 | Membrane Allostery and Unique Hydrophobic Sites Promote Enzyme Substrate Specificity. *Journal of the American Chemical Society*, **2018**, 140, 3285-3291 | 16.4 | 36 |
| 315 | MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. *Journal of Lipid Research*, **2018**, 59, 2001-2017 | 6.3 | 146 |
| 314 | Structure, Function, and Mode of Action of Snake Venom and Other Phospholipases A2 **2018**, 107-145 | | 2 |
| 313 | Lipidomics reveals physiological isotope effects during the enzymatic oxygenation of polyunsaturated fatty acids ex vivo.. *FASEB Journal*, **2018**, 32, 658.1 | 0.9 | |
| 312 | Membrane Allostery and Hydrophobic Binding Sites Control Substrate Specificity of Lipolytic Enzymes. *FASEB Journal*, **2018**, 32, 528.6 | 0.9 | |
| 311 | Review of four major distinct types of human phospholipase A. *Advances in Biological Regulation*, **2018**, 67, 212-218 | 6.2 | 55 |
| 310 | Lipidomics Reveals Dramatic Physiological Kinetic Isotope Effects during the Enzymatic Oxygenation of Polyunsaturated Fatty Acids Ex Vivo. *Journal of the American Chemical Society*, **2018**, 140, 235-243 | 16.4 | 20 |
| 309 | Quantitative determination of esterified eicosanoids and related oxygenated metabolites after base hydrolysis. *Journal of Lipid Research*, **2018**, 59, 2436-2445 | 6.3 | 19 |
| 308 | Highly Potent 2-Oxoester Inhibitors of Cytosolic Phospholipase A (GIVA cPLA). *ACS Omega*, **2018**, 3, 8843-8853 | 3.8 | 7 |
| 307 | Inhibition of spinal 15-LOX-1 attenuates TLR4-dependent, nonsteroidal anti-inflammatory drug-unresponsive hyperalgesia in male rats. *Pain*, **2018**, 159, 2620-2629 | 8 | 7 |

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| 306 | Dysregulation of lipidomic profile and antiviral immunity in response to hyaluronan in patients with severe asthma. *Journal of Allergy and Clinical Immunology*, **2017**, 139, 1379-1383 | 11.5 | 33 |
| 305 | 2-Oxoamides based on dipeptides as selective calcium-independent phospholipase A inhibitors. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 926-940 | 3.4 | 3 |
| 304 | Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950-Metabolites in Frozen Human Plasma. *Journal of Lipid Research*, **2017**, 58, 2275-2288 | 6.3 | 220 |
| 303 | 2-Oxoesters: A Novel Class of Potent and Selective Inhibitors of Cytosolic Group IVA Phospholipase A. *Scientific Reports*, **2017**, 7, 7025 | 4.9 | 13 |
| 302 | Borrelia burgdorferi infection induces lipid mediator production during Lyme arthritis. *Biochimie*, **2017**, 141, 86-90 | 4.6 | 2 |
| 301 | The role of human cytochrome P450 2E1 in liver inflammation and fibrosis. *Hepatology Communications*, **2017**, 1, 1043-1057 | 6 | 29 |
| 300 | Liberating Chiral Lipid Mediators, Inflammatory Enzymes, and LIPID MAPS from Biological Grease. *Journal of Biological Chemistry*, **2016**, 291, 24431-24448 | 5.4 | 30 |
| 299 | Computational Modeling of Competitive Metabolism between ω3- and ω6-Polyunsaturated Fatty Acids in Inflammatory Macrophages. *Journal of Physical Chemistry B*, **2016**, 120, 8346-53 | 3.4 | 9 |
| 298 | Membrane and inhibitor interactions of intracellular phospholipases A2. *Advances in Biological Regulation*, **2016**, 61, 17-24 | 6.2 | 25 |
| 297 | Development of Potent and Selective Inhibitors for Group VIA Calcium-Independent Phospholipase A2 Guided by Molecular Dynamics and Structure-Activity Relationships. *Journal of Medicinal Chemistry*, **2016**, 59, 4403-14 | 8.3 | 27 |
| 296 | Computer-aided drug design guided by hydrogen/deuterium exchange mass spectrometry: A powerful combination for the development of potent and selective inhibitors of Group VIA calcium-independent phospholipase A. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 4801-4811 | 3.4 | 15 |
| 295 | 2-Oxoamide inhibitors of cytosolic group IVA phospholipase A2 with reduced lipophilicity. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 4544-4554 | 3.4 | 4 |
| 294 | Eicosanoid storm in infection and inflammation. *Nature Reviews Immunology*, **2015**, 15, 511-23 | 36.5 | 753 |
| 293 | Biomarkers of NAFLD progression: a lipidomics approach to an epidemic. *Journal of Lipid Research*, **2015**, 56, 722-736 | 6.3 | 193 |
| 292 | Introduction to Thematic Review Series: Phospholipases: Central Role in Lipid Signaling and Disease. *Journal of Lipid Research*, **2015**, 56, 1245-7 | 6.3 | 35 |
| 291 | Targeted lipidomic strategies for oxygenated metabolites of polyunsaturated fatty acids. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2015**, 1851, 456-68 | 5 | 87 |
| 290 | Polyunsaturated fatty acid metabolites as novel lipidomic biomarkers for noninvasive diagnosis of nonalcoholic steatohepatitis. *Journal of Lipid Research*, **2015**, 56, 185-92 | 6.3 | 117 |
| 289 | Membranes serve as allosteric activators of phospholipase A2, enabling it to extract, bind, and hydrolyze phospholipid substrates. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E516-25 | 11.5 | 64 |

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| 288 | Three-dimensional enhanced lipidomics analysis combining UPLC, differential ion mobility spectrometry, and mass spectrometric separation strategies. *Journal of Lipid Research*, **2014**, 55, 2432-42 | 6.3 | 75 |
| 287 | Phospholipase A2 regulates eicosanoid class switching during inflammasome activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12746-51 | 11.5 | 90 |
| 286 | Comprehensive ultra-performance liquid chromatographic separation and mass spectrometric analysis of eicosanoid metabolites in human samples. *Journal of Chromatography A*, **2014**, 1359, 60-9 | 4.5 | 109 |
| 285 | Cell-type-specific roles for COX-2 in UVB-induced skin cancer. *Carcinogenesis*, **2014**, 35, 1310-9 | 4.6 | 26 |
| 284 | Inhibition of group IVA cytosolic phospholipase A2 by thiazolyl ketones in vitro, ex vivo, and in vivo. *Journal of Medicinal Chemistry*, **2014**, 57, 7523-35 | 8.3 | 31 |
| 283 | Modeling of eicosanoid fluxes reveals functional coupling between cyclooxygenases and terminal synthases. *Biophysical Journal*, **2014**, 106, 966-75 | 2.9 | 20 |
| 282 | Targeted deletion and lipidomic analysis identify epithelial cell COX-2 as a major driver of chemically induced skin cancer. *Molecular Cancer Research*, **2014**, 12, 1677-88 | 6.6 | 19 |
| 281 | A lipidomic perspective on inflammatory macrophage eicosanoid signaling. *Advances in Biological Regulation*, **2014**, 54, 99-110 | 6.2 | 44 |
| 280 | Release and capture of bioactive oxidized phospholipids and oxidized cholesteryl esters during percutaneous coronary and peripheral arterial interventions in humans. *Journal of the American College of Cardiology*, **2014**, 63, 1961-71 | 15.1 | 66 |
| 279 | New potent and selective polyfluoroalkyl ketone inhibitors of GVIA calcium-independent phospholipase A2. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 5823-9 | 3.4 | 26 |
| 278 | Lipidomics technologies at the end of the first decade and the beginning of the next. *Advances in Nutrition*, **2013**, 4, 565-7 | 10 | 12 |
| 277 | NCoR repression of LXRs restricts macrophage biosynthesis of insulin-sensitizing omega 3 fatty acids. *Cell*, **2013**, 155, 200-214 | 56.2 | 107 |
| 276 | 25-Hydroxycholesterol activates the integrated stress response to reprogram transcription and translation in macrophages. *Journal of Biological Chemistry*, **2013**, 288, 35812-23 | 5.4 | 47 |
| 275 | Structural basis of specific interactions of Lp-PLA2 with HDL revealed by hydrogen deuterium exchange mass spectrometry. *Journal of Lipid Research*, **2013**, 54, 127-33 | 6.3 | 16 |
| 274 | Lipidomic profiling of influenza infection identifies mediators that induce and resolve inflammation. *Cell*, **2013**, 154, 213-27 | 56.2 | 174 |
| 273 | Fluoroketone inhibition of Ca(2+)-independent phospholipase A2 through binding pocket association defined by hydrogen/deuterium exchange and molecular dynamics. *Journal of the American Chemical Society*, **2013**, 135, 1330-7 | 16.4 | 41 |
| 272 | Correction to Fluoroketone Inhibition of Ca2+-Independent Phospholipase A2 through Binding Pocket Association Defined by Hydrogen/Deuterium Exchange and Molecular Dynamics *Journal of the American Chemical Society*, **2013**, 135, 5932-5932 | 16.4 | 2 |
| 271 | Insertion of the Ca2+-independent phospholipase A into a phospholipid bilayer via coarse-grained and atomistic molecular dynamics simulations. *PLoS Computational Biology*, **2013**, 9, e1003156 | 5 | 27 |

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| 270 | Determinants of binding of oxidized phospholipids on apolipoprotein (a) and lipoprotein (a). *Journal of Lipid Research*, **2013**, 54, 2815-30 | 6.3 | 127 |
| 269 | Analysis of inflammatory and lipid metabolic networks across RAW264.7 and thioglycolate-elicited macrophages. *Journal of Lipid Research*, **2013**, 54, 2525-42 | 6.3 | 32 |
| 268 | Systematic analysis of rat 12/15-lipoxygenase enzymes reveals critical role for spinal eLOX3 hepoxilin synthase activity in inflammatory hyperalgesia. *FASEB Journal*, **2013**, 27, 1939-49 | 0.9 | 30 |
| 267 | Desperately seeking Flexner: time to reemphasize basic science in medical education. *Academic Medicine*, **2013**, 88, 1405-6 | 3.9 | 3 |
| 266 | Using hydrogen/deuterium exchange mass spectrometry to define the specific interactions of the phospholipase A2 superfamily with lipid substrates, inhibitors, and membranes. *Journal of Biological Chemistry*, **2013**, 288, 1806-13 | 5.4 | 40 |
| 265 | Assessing phospholipase A2 activity toward cardiolipin by mass spectrometry. *PLoS ONE*, **2013**, 8, e59267 | 3.7 | 40 |
| 264 | Polyoxygenated cholesterol ester hydroperoxide activates TLR4 and SYK dependent signaling in macrophages. *PLoS ONE*, **2013**, 8, e83145 | 3.7 | 41 |
| 263 | Omega-3 fatty acids cause dramatic changes in TLR4 and purinergic eicosanoid signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 8517-22 | 11.5 | 125 |
| 262 | Targeted proteomics of the eicosanoid biosynthetic pathway completes an integrated genomics-proteomics-metabolomics picture of cellular metabolism. *Molecular and Cellular Proteomics*, **2012**, 11, M111.014746 | 7.6 | 31 |
| 261 | Regulated accumulation of desmosterol integrates macrophage lipid metabolism and inflammatory responses. *Cell*, **2012**, 151, 138-52 | 56.2 | 373 |
| 260 | The costimulatory immunogen LPS induces the B-Cell clones that infiltrate transplanted human kidneys. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6036-41 | 11.5 | 17 |
| 259 | LIPID MAPS-Nature Lipidomics Gateway: An Online Resource for Students and Educators Interested in Lipids. *Journal of Chemical Education*, **2012**, 89, 291-292 | 2.4 | 43 |
| 258 | Binding conformation of 2-oxoamide inhibitors to group IVA cytosolic phospholipase A2 determined by molecular docking combined with molecular dynamics. *Journal of Chemical Information and Modeling*, **2012**, 52, 243-54 | 6.1 | 15 |
| 257 | Differential expression of oxidation-specific epitopes and apolipoprotein(a) in progressing and ruptured human coronary and carotid atherosclerotic lesions. *Journal of Lipid Research*, **2012**, 53, 2773-90 | 6.3 | 97 |
| 256 | Essential role of ELOVL4 protein in very long chain fatty acid synthesis and retinal function. *Journal of Biological Chemistry*, **2012**, 287, 11469-80 | 5.4 | 60 |
| 255 | Dietary fish oil substitution alters the eicosanoid profile in ankle joints of mice during Lyme infection. *Journal of Nutrition*, **2012**, 142, 1582-9 | 4.1 | 14 |
| 254 | Spinal 12-lipoxygenase-derived hepoxilin A3 contributes to inflammatory hyperalgesia via activation of TRPV1 and TRPA1 receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6721-6 | 11.5 | 96 |
| 253 | Structure/function relationships of adipose phospholipase A2 containing a cys-his-his catalytic triad. *Journal of Biological Chemistry*, **2012**, 287, 35260-35274 | 5.4 | 36 |

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| 252 | The human plasma lipidome. *New England Journal of Medicine*, **2011**, 365, 1812-23 | 59.2 | 275 |
| 251 | High-throughput lipidomic analysis of fatty acid derived eicosanoids and N-acylethanolamines. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2011**, 1811, 724-36 | 5 | 103 |
| 250 | High sensitivity quantitative lipidomics analysis of fatty acids in biological samples by gas chromatography-mass spectrometry. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2011**, 1811, 648-56 | 5 | 151 |
| 249 | Spinal TLR4 mediates the transition to a persistent mechanical hypersensitivity after the resolution of inflammation in serum-transferred arthritis. *Pain*, **2011**, 152, 2881-2891 | 8 | 102 |
| 248 | Effect of gestational hypercholesterolemia and maternal immunization on offspring plasma eicosanoids. *American Journal of Obstetrics and Gynecology*, **2011**, 205, 156.e15-25 | 6.4 | 16 |
| 247 | Applications of mass spectrometry to lipids and membranes. *Annual Review of Biochemistry*, **2011**, 80, 301-25 | 29.1 | 150 |
| 246 | Lipoprotein-associated phospholipase A(2) interacts with phospholipid vesicles via a surface-disposed hydrophobic □helix. *Biochemistry*, **2011**, 50, 5314-21 | 3.2 | 27 |
| 245 | Phospholipase A2 enzymes: physical structure, biological function, disease implication, chemical inhibition, and therapeutic intervention. *Chemical Reviews*, **2011**, 111, 6130-85 | 68.1 | 701 |
| 244 | Phospholipase A2 superfamily members play divergent roles after spinal cord injury. *FASEB Journal*, **2011**, 25, 4240-52 | 0.9 | 38 |
| 243 | Specificity of eicosanoid production depends on the TLR-4-stimulated macrophage phenotype. *Journal of Leukocyte Biology*, **2011**, 90, 563-74 | 6.5 | 65 |
| 242 | Spinal glial TLR4-mediated nociception and production of prostaglandin E(2) and TNF. *British Journal of Pharmacology*, **2010**, 160, 1754-64 | 8.6 | 77 |
| 241 | Inflammatory hyperalgesia induces essential bioactive lipid production in the spinal cord. *Journal of Neurochemistry*, **2010**, 114, 981-93 | 6 | 44 |
| 240 | Pharmacological correction of a defect in PPAR-gamma signaling ameliorates disease severity in Cftr-deficient mice. *Nature Medicine*, **2010**, 16, 313-8 | 50.5 | 79 |
| 239 | Role of Phospholipase A2 Forms in Arachidonic Acid Mobilization and Eicosanoid Generation **2010**, 1213-1217 | | |
| 238 | Application of proteomic marker ensembles to subcellular organelle identification. *Molecular and Cellular Proteomics*, **2010**, 9, 388-402 | 7.6 | 44 |
| 237 | A mouse macrophage lipidome. *Journal of Biological Chemistry*, **2010**, 285, 39976-85 | 5.4 | 210 |
| 236 | Oxidized cholesteryl esters and phospholipids in zebrafish larvae fed a high cholesterol diet: macrophage binding and activation. *Journal of Biological Chemistry*, **2010**, 285, 32343-51 | 5.4 | 71 |
| 235 | Subcellular organelle lipidomics in TLR-4-activated macrophages. *Journal of Lipid Research*, **2010**, 51, 2785-97 | 6.3 | 156 |

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| 234 | Potent and selective fluoroketone inhibitors of group VIA calcium-independent phospholipase A2. *Journal of Medicinal Chemistry*, **2010**, 53, 3602-10 | 8.3 | 70 |
| 233 | Lipidomics reveals a remarkable diversity of lipids in human plasma. *Journal of Lipid Research*, **2010**, 51, 3299-305 | 6.3 | 873 |
| 232 | Cell Signaling: Yesterday, Today, and Tomorrow **2010**, 1-4 | | 14 |
| 231 | Calcium Regulation of Group VIA Calcium-Independent Phospholipase A2. *FASEB Journal*, **2010**, 24, 850.2 | 0.9 | |
| 230 | Lipidomics joins the omics evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2089-90 | 11.5 | 121 |
| 229 | Cyclooxygenase-1 orchestrates germinal center formation and antibody class-switch via regulation of IL-17. *Journal of Immunology*, **2009**, 183, 5644-53 | 5.3 | 31 |
| 228 | Founding, early history, and transformation of the Journal for Lipid Research to an American Society of Biochemistry and Molecular Biology journal. *Journal of Lipid Research*, **2009**, 50 Suppl, S3-8 | 6.3 | 0 |
| 227 | Differing roles for members of the phospholipase A2 superfamily in experimental autoimmune encephalomyelitis. *Brain*, **2009**, 132, 1221-35 | 11.2 | 77 |
| 226 | Lipidomic analysis of dynamic eicosanoid responses during the induction and resolution of Lyme arthritis. *Journal of Biological Chemistry*, **2009**, 284, 21599-612 | 5.4 | 90 |
| 225 | Localizing the membrane binding region of Group VIA Ca2+-independent phospholipase A2 using peptide amide hydrogen/deuterium exchange mass spectrometry. *Journal of Biological Chemistry*, **2009**, 284, 23652-61 | 5.4 | 55 |
| 224 | Thematic Review Series: Proteomics. An integrated omics analysis of eicosanoid biology. *Journal of Lipid Research*, **2009**, 50, 1015-38 | 6.3 | 375 |
| 223 | Phospholipase A2 biochemistry. *Cardiovascular Drugs and Therapy*, **2009**, 23, 49-59 | 3.9 | 249 |
| 222 | 2-Oxoamide inhibitors of phospholipase A2 activity and cellular arachidonate release based on dipeptides and pseudodipeptides. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 4833-43 | 3.4 | 16 |
| 221 | Update of the LIPID MAPS comprehensive classification system for lipids. *Journal of Lipid Research*, **2009**, 50 Suppl, S9-14 | 6.3 | 988 |
| 220 | Phosphatidic acid phosphohydrolase in the regulation of inflammatory signaling. *Advances in Enzyme Regulation*, **2009**, 49, 114-20 | | 18 |
| 219 | Location of inhibitors bound to group IVA phospholipase A2 determined by molecular dynamics and deuterium exchange mass spectrometry. *Journal of the American Chemical Society*, **2009**, 131, 8083-91 | 16.4 | 53 |
| 218 | TLR-4 mediated group IVA phospholipase A(2) activation is phosphatidic acid phosphohydrolase 1 and protein kinase C dependent. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2009**, 1791, 975-82 | 5 | 17 |
| 217 | An integrated model of eicosanoid metabolism and signaling based on lipidomics flux analysis. *Biophysical Journal*, **2009**, 96, 4542-51 | 2.9 | 45 |

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|---|---|---|---|
| 216 | Phospholipase A2 structure/function, mechanism, and signaling. *Journal of Lipid Research*, **2009**, 50 Suppl, S237-42 | 6.3 | 612 |
| 215 | Group IVA cytosolic phospholipase A2 (cPLA2alpha) and integrin alphaIIbbeta3 reinforce each other's functions during alphaIIbbeta3 signaling in platelets. *Blood*, **2009**, 113, 447-57 | 2.2 | 22 |
| 214 | Lipidomics analysis of essential fatty acids in macrophages. *Prostaglandins Leukotrienes and Essential Fatty Acids*, **2008**, 79, 123-9 | 2.8 | 47 |
| 213 | Synthesis of polyfluoro ketones for selective inhibition of human phospholipase A2 enzymes. *Journal of Medicinal Chemistry*, **2008**, 51, 8027-37 | 8.3 | 63 |
| 212 | Interaction of group IA phospholipase A2 with metal ions and phospholipid vesicles probed with deuterium exchange mass spectrometry. *Biochemistry*, **2008**, 47, 6451-9 | 3.2 | 51 |
| 211 | Intracellular phospholipase A(2) group IVA and group VIA play important roles in Wallerian degeneration and axon regeneration after peripheral nerve injury. *Brain*, **2008**, 131, 2620-31 | 11.2 | 54 |
| 210 | Calcium binding rigidifies the C2 domain and the intradomain interaction of GIVA phospholipase A2 as revealed by hydrogen/deuterium exchange mass spectrometry. *Journal of Biological Chemistry*, **2008**, 283, 9820-7 | 5.4 | 37 |
| 209 | A phospholipid substrate molecule residing in the membrane surface mediates opening of the lid region in group IVA cytosolic phospholipase A2. *Journal of Biological Chemistry*, **2008**, 283, 31227-36 | 5.4 | 41 |
| 208 | Cholesteryl ester hydroperoxides are biologically active components of minimally oxidized low density lipoprotein. *Journal of Biological Chemistry*, **2008**, 283, 10241-51 | 5.4 | 79 |
| 207 | Synthesis of 2-oxoamides based on sulfonamide analogs of gamma-amino acids and their activity on phospholipase A2. *Journal of Peptide Science*, **2008**, 14, 1111-20 | 2.1 | 7 |
| 206 | A macrophage cell model for selective metalloproteinase inhibitor design. *ChemBioChem*, **2008**, 9, 2087-95 | 3.5 | 10 |
| 205 | Structure-activity relationships of natural and non-natural amino acid-based amide and 2-oxoamide inhibitors of human phospholipase A(2) enzymes. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 10257-69 | 3.4 | 24 |
| 204 | Temporal eicosanoid profiling of the inflammatory response to infection by the Lyme disease bacterium. *FASEB Journal*, **2008**, 22, 1039.1 | 0.9 | |
| 203 | LMSD: LIPID MAPS structure database. *Nucleic Acids Research*, **2007**, 35, D527-32 | 20.1 | 709 |
| 202 | Structure-activity relationship of 2-oxoamide inhibition of group IVA cytosolic phospholipase A2 and group V secreted phospholipase A2. *Journal of Medicinal Chemistry*, **2007**, 50, 4222-35 | 8.3 | 62 |
| 201 | Synthesis of lipophilic 2-oxoamides based on gamma-aminobutyric and delta-aminovaleric analogues and their activity against phospholipase A2. *Journal of Peptide Science*, **2007**, 13, 634-41 | 2.1 | 10 |
| 200 | TLR-4 and sustained calcium agonists synergistically produce eicosanoids independent of protein synthesis in RAW264.7 cells. *Journal of Biological Chemistry*, **2007**, 282, 22834-47 | 5.4 | 78 |
| 199 | Arachidonate-derived dihomoprostaglandin production observed in endotoxin-stimulated macrophage-like cells. *Journal of Biological Chemistry*, **2007**, 282, 2899-910 | 5.4 | 41 |

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| 198 | The lipid maps initiative in lipidomics. *Methods in Enzymology*, **2007**, 432, 171-83 | 1.7 | 105 |
| 197 | Detection and quantitation of eicosanoids via high performance liquid chromatography-electrospray ionization-mass spectrometry. *Methods in Enzymology*, **2007**, 432, 59-82 | 1.7 | 134 |
| 196 | Multiple agonist induced changes in eicosanoid metabolites correlated with gene expression in macrophages. *FASEB Journal*, **2007**, 21, A606 | 0.9 | |
| 195 | Systemic and intrathecal effects of a novel series of phospholipase A2 inhibitors on hyperalgesia and spinal prostaglandin E2 release. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 316, 466-75 | 4.7 | 63 |
| 194 | Kdo2-Lipid A of Escherichia coli, a defined endotoxin that activates macrophages via TLR-4. *Journal of Lipid Research*, **2006**, 47, 1097-111 | 6.3 | 173 |
| 193 | Lipopolysaccharide-induced cyclooxygenase-2 expression in human U937 macrophages is phosphatidic acid phosphohydrolase-1-dependent. *Journal of Biological Chemistry*, **2006**, 281, 32978-87 | 5.4 | 50 |
| 192 | Differential inhibition of group IVA and group VIA phospholipases A2 by 2-oxoamides. *Journal of Medicinal Chemistry*, **2006**, 49, 2821-8 | 8.3 | 38 |
| 191 | The phospholipase A2 superfamily and its group numbering system. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 1246-59 | 5 | 647 |
| 190 | The LIPID MAPS Approach to Eicosanoid Lipidomics. *FASEB Journal*, **2006**, 20, A1471 | 0.9 | |
| 189 | Molecular characterization of the lipopolysaccharide/platelet activating factor- and zymosan-induced pathways leading to prostaglandin production in P388D1 macrophages. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2005**, 1687, 64-75 | 5 | 12 |
| 188 | Localization and functional interrelationships among cytosolic Group IV, secreted Group V, and Ca2+-independent Group VI phospholipase A2s in P388D1 macrophages using GFP/RFP constructs. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2005**, 1735, 119-29 | 5 | 43 |
| 187 | Spinal phospholipase A2 in inflammatory hyperalgesia: role of the small, secretory phospholipase A2. *Neuroscience*, **2005**, 133, 543-53 | 3.9 | 47 |
| 186 | A comprehensive classification system for lipids. *Journal of Lipid Research*, **2005**, 46, 839-61 | 6.3 | 1060 |
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