

Robert C Murphy

List of Publications by Year in descending order

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352
papers

25,997
citations

7568

77
h-index

9345

143
g-index

358
all docs

358
docs citations

358
times ranked

24699
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A comprehensive classification system for lipids. <i>Journal of Lipid Research</i> , 2005, 46, 839-861. | 4.2 | 1,348 |
| 2 | Update of the LIPID MAPS comprehensive classification system for lipids. <i>Journal of Lipid Research</i> , 2009, 50, S9-S14. | 4.2 | 1,300 |
| 3 | Lipidomics reveals a remarkable diversity of lipids in human plasma. <i>Journal of Lipid Research</i> , 2010, 51, 3299-3305. | 4.2 | 1,071 |
| 4 | LMSD: LIPID MAPS structure database. <i>Nucleic Acids Research</i> , 2007, 35, D527-D532. | 14.5 | 998 |
| 5 | Electrospray mass spectrometry of phospholipids. <i>Mass Spectrometry Reviews</i> , 2003, 22, 332-364. | 5.4 | 838 |
| 6 | Sublimation as a method of matrix application for mass spectrometric imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1646-1652. | 2.8 | 514 |
| 7 | Regulated Accumulation of Desmosterol Integrates Macrophage Lipid Metabolism and Inflammatory Responses. <i>Cell</i> , 2012, 151, 138-152. | 28.9 | 487 |
| 8 | Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. <i>Journal of Lipid Research</i> , 2020, 61, 1539-1555. | 4.2 | 372 |
| 9 | Oxidative Stress in Severe Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 169, 764-769. | 5.6 | 330 |
| 10 | MALDI Imaging of Lipid Biochemistry in Tissues by Mass Spectrometry. <i>Chemical Reviews</i> , 2011, 111, 6491-6512. | 47.7 | 320 |
| 11 | Structure of leukotriene C identification of the amino acid part. <i>Biochemical and Biophysical Research Communications</i> , 1979, 91, 1266-1272. | 2.1 | 314 |
| 12 | Biosynthesis and metabolism of leukotrienes. <i>Biochemical Journal</i> , 2007, 405, 379-395. | 3.7 | 296 |
| 13 | Analysis of Nonvolatile Lipids by Mass Spectrometry. <i>Chemical Reviews</i> , 2001, 101, 479-526. | 47.7 | 279 |
| 14 | Biomarkers of NAFLD progression: a lipidomics approach to an epidemic. <i>Journal of Lipid Research</i> , 2015, 56, 722-736. | 4.2 | 264 |
| 15 | A Mouse Macrophage Lipidome. <i>Journal of Biological Chemistry</i> , 2010, 285, 39976-39985. | 3.4 | 260 |
| 16 | Recombinant human activated protein C reduces human endotoxin-induced pulmonary inflammation via inhibition of neutrophil chemotaxis. <i>Blood</i> , 2004, 104, 3878-3885. | 1.4 | 259 |
| 17 | Imaging of lipid species by MALDI mass spectrometry. <i>Journal of Lipid Research</i> , 2009, 50, S317-S322. | 4.2 | 253 |
| 18 | Oxidized Alkyl Phospholipids Are Specific, High Affinity Peroxisome Proliferator-activated Receptor β Ligands and Agonists. <i>Journal of Biological Chemistry</i> , 2001, 276, 16015-16023. | 3.4 | 243 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Electrospray ionization tandem mass spectrometry of glycerophosphoethanolamine plasmalogen phospholipids. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1499-1508. | 2.8 | 241 |
| 20 | Leukotrienes and Slow Reacting Substance of Anaphylaxis (SRS-A). <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 1980, 35, 375-381. | 5.7 | 227 |
| 21 | Electrospray ionization and tandem mass spectrometry of eicosanoids. <i>Analytical Biochemistry</i> , 2005, 346, 1-42. | 2.4 | 226 |
| 22 | Loss of cardiac tetralinoleoyl cardiolipin in human and experimental heart failure. <i>Journal of Lipid Research</i> , 2007, 48, 1559-1570. | 4.2 | 219 |
| 23 | Heat generates oxidized linoleic acid metabolites that activate TRPV1 and produce pain in rodents. <i>Journal of Clinical Investigation</i> , 2010, 120, 1617-1626. | 8.2 | 206 |
| 24 | Kdo2-Lipid A of <i>Escherichia coli</i> , a defined endotoxin that activates macrophages via TLR-4. <i>Journal of Lipid Research</i> , 2006, 47, 1097-1111. | 4.2 | 202 |
| 25 | Mass spectrometric analysis of long-chain lipids. <i>Mass Spectrometry Reviews</i> , 2011, 30, 579-599. | 5.4 | 201 |
| 26 | Eicosanoid Transcellular Biosynthesis: From Cell-Cell Interactions to in Vivo Tissue Responses. <i>Pharmacological Reviews</i> , 2006, 58, 375-388. | 16.0 | 195 |
| 27 | Leukotriene C ₄ and D ₄ in Neonates with Hypoxemia and Pulmonary Hypertension. <i>New England Journal of Medicine</i> , 1983, 309, 77-80. | 27.0 | 185 |
| 28 | Isocratic separation of some purine nucleotide, nucleoside, and base metabolites from biological extracts by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1976, 121, 251-262. | 3.7 | 181 |
| 29 | Lysophospholipid Acyltransferases and Arachidonate Recycling in Human Neutrophils. <i>Journal of Biological Chemistry</i> , 2008, 283, 30235-30245. | 3.4 | 178 |
| 30 | Inflammatory Platelet-activating Factor-like Phospholipids in Oxidized Low Density Lipoproteins Are Fragmented Alkyl Phosphatidylcholines. <i>Journal of Biological Chemistry</i> , 1999, 274, 28395-28404. | 3.4 | 169 |
| 31 | The relationship of hydroxyeicosatetraenoic acids and F ₂ -isoprostanes to plaque instability in human carotid atherosclerosis. <i>Journal of Clinical Investigation</i> , 1999, 103, 421-427. | 8.2 | 161 |
| 32 | Direct qualitative analysis of triacylglycerols by electrospray mass spectrometry using a linear ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1498-1509. | 2.8 | 159 |
| 33 | Fast atom bombardment mass spectrometry of phospholipids. <i>Mass Spectrometry Reviews</i> , 1994, 13, 57-75. | 5.4 | 158 |
| 34 | Cholesterol, Reactive Oxygen Species, and the Formation of Biologically Active Mediators. <i>Journal of Biological Chemistry</i> , 2008, 283, 15521-15525. | 3.4 | 155 |
| 35 | Quantitation of cardiolipin molecular species in spontaneously hypertensive heart failure rats using electrospray ionization mass spectrometry. <i>Journal of Lipid Research</i> , 2005, 46, 1196-1204. | 4.2 | 154 |
| 36 | Elucidation of Double Bond Position in Unsaturated Lipids by Ozone Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 5013-5022. | 6.5 | 153 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Mapping the Human Platelet Lipidome Reveals Cytosolic Phospholipase A2 as a Regulator of Mitochondrial Bioenergetics during Activation. <i>Cell Metabolism</i> , 2016, 23, 930-944. | 16.2 | 150 |
| 38 | Detection of the abundance of diacylglycerol and triacylglycerol molecular species in cells using neutral loss mass spectrometry. <i>Analytical Biochemistry</i> , 2007, 366, 59-70. | 2.4 | 144 |
| 39 | Specificity of Acyl-Homoserine Lactone Synthases Examined by Mass Spectrometry. <i>Journal of Bacteriology</i> , 2006, 188, 773-783. | 2.2 | 131 |
| 40 | MALDI Mass Spectrometric Imaging of Lipids in Rat Brain Injury Models. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1014-21. | 2.8 | 131 |
| 41 | Fast atom bombardment tandem mass spectrometric identification of diacyl, alkylacyl, and alk-1-enylacyl molecular species of glycerophosphoethanolamine in human polymorphonuclear leukocytes. <i>Analytical Chemistry</i> , 1992, 64, 2965-2971. | 6.5 | 127 |
| 42 | Working towards an exegesis for lipids in biology. <i>Nature Chemical Biology</i> , 2009, 5, 602-606. | 8.0 | 123 |
| 43 | Analysis of leukotrienes by high-pressure liquid chromatography. <i>Analytical Biochemistry</i> , 1981, 118, 96-101. | 2.4 | 121 |
| 44 | Platelet Lipidomics. <i>Circulation Research</i> , 2014, 114, 1185-1203. | 4.5 | 121 |
| 45 | Potential Role of Oral Rinses Targeting the Viral Lipid Envelope in SARS-CoV-2 Infection. <i>Function</i> , 2020, 1, zqaa002. | 2.3 | 118 |
| 46 | Separation of cellular nonpolar neutral lipids by normal-phase chromatography and analysis by electrospray ionization mass spectrometry. <i>Journal of Lipid Research</i> , 2008, 49, 804-813. | 4.2 | 117 |
| 47 | Preparation of pentafluorobenzyl esters of arachidonic acid lipoxygenase metabolites. <i>Biomedical Applications</i> , 1984, 305, 3-12. | 1.7 | 116 |
| 48 | Identification and Relative Quantitation of F2-Isoprostane Regioisomers Formed in vivo in the Rat. <i>Free Radical Biology and Medicine</i> , 1997, 23, 943-954. | 2.9 | 115 |
| 49 | Phosphatidylethanolamine Has an Essential Role in <i>Saccharomyces cerevisiae</i> That Is Independent of Its Ability to Form Hexagonal Phase Structures. <i>Journal of Biological Chemistry</i> , 2001, 276, 48539-48548. | 3.4 | 115 |
| 50 | Phospholipid-esterified Eicosanoids Are Generated in Agonist-activated Human Platelets and Enhance Tissue Factor-dependent Thrombin Generation. <i>Journal of Biological Chemistry</i> , 2010, 285, 6891-6903. | 3.4 | 115 |
| 51 | Diet-Gene Interactions and PUFA Metabolism: A Potential Contributor to Health Disparities and Human Diseases. <i>Nutrients</i> , 2014, 6, 1993-2022. | 4.1 | 114 |
| 52 | Lysophosphatidylcholine Metabolism in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 36853-36861. | 3.4 | 107 |
| 53 | Tetraene and pentaene leukotrienes: Selective production from murine mastocytoma cells after dietary manipulation. <i>Prostaglandins</i> , 1981, 22, 613-622. | 1.2 | 104 |
| 54 | Electrospray mass spectrometric analysis of 5-hydroperoxy and 5-hydroxyeicosatetraenoic acids generated by lipid peroxidation of red blood cell ghost phospholipids. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 527-532. | 2.8 | 104 |

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|----|---|-----|-----------|
| 55 | Formation of Biologically Active Oxysterols during Ozonolysis of Cholesterol Present in Lung Surfactant. <i>Journal of Biological Chemistry</i> , 2004, 279, 26331-26338. | 3.4 | 103 |
| 56 | The discovery and early structural studies of arachidonic acid. <i>Journal of Lipid Research</i> , 2016, 57, 1126-1132. | 4.2 | 102 |
| 57 | Analysis of Epoxyeicosatrienoic and Monohydroxyeicosatetraenoic Acids Esterified to Phospholipids in Human Red Blood Cells by Electrospray Tandem Mass Spectrometry. , 1997, 32, 888-896. | | 101 |
| 58 | Bioactive phospholipid oxidation products. <i>Free Radical Biology and Medicine</i> , 2000, 28, 1762-1770. | 2.9 | 98 |
| 59 | Structure elucidation of platelet activating factor derived from human neutrophils. <i>Biochemical and Biophysical Research Communications</i> , 1984, 121, 815-825. | 2.1 | 97 |
| 60 | NADPH Oxidase-dependent Generation of Lysophosphatidylserine Enhances Clearance of Activated and Dying Neutrophils via G2A. <i>Journal of Biological Chemistry</i> , 2008, 283, 33736-33749. | 3.4 | 97 |
| 61 | Transcellular biosynthesis of eicosanoids. <i>Pharmacological Reports</i> , 2010, 62, 503-510. | 3.3 | 97 |
| 62 | Free-Radical-Induced Oxidation of Arachidonoyl Plasmalogen Phospholipids: Antioxidant Mechanism and Precursor Pathway for Bioactive Eicosanoids. <i>Chemical Research in Toxicology</i> , 2001, 14, 463-472. | 3.3 | 96 |
| 63 | Ultraviolet B Radiation Generates Platelet-activating Factor-like Phospholipids underlying Cutaneous Damage. <i>Journal of Biological Chemistry</i> , 2005, 280, 35448-35457. | 3.4 | 96 |
| 64 | A comprehensive classification system for lipids. <i>European Journal of Lipid Science and Technology</i> , 2005, 107, 337-364. | 1.5 | 94 |
| 65 | Structural characterization of oxidized phospholipid products derived from arachidonate-containing plasmemyl glycerophosphocholine. <i>Journal of Lipid Research</i> , 2000, 41, 564-572. | 4.2 | 93 |
| 66 | Direct Mass Spectrometric Analysis of Ozonides: Application to Unsaturated Glycerophosphocholine Lipids. <i>Analytical Chemistry</i> , 1996, 68, 3224-3230. | 6.5 | 91 |
| 67 | Dietary ω -3 fatty acids alter cardiac mitochondrial phospholipid composition and delay Ca^{2+} -induced permeability transition. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 819-827. | 1.9 | 90 |
| 68 | A novel class of microbial phosphocholine-specific phospholipases C. <i>Molecular Microbiology</i> , 2002, 46, 661-676. | 2.5 | 89 |
| 69 | Lysophospholipids of Different Classes Mobilize Neutrophil Secretory Vesicles and Induce Redundant Signaling through G2A. <i>Journal of Immunology</i> , 2007, 178, 6540-6548. | 0.8 | 89 |
| 70 | Deciphering the Role of Lipid Droplets in Cardiovascular Disease. <i>Circulation</i> , 2018, 138, 305-315. | 1.6 | 89 |
| 71 | Release and Capture of Bioactive Oxidized Phospholipids and Oxidized Cholesteryl Esters During Percutaneous Coronary and Peripheral Arterial Interventions in Humans. <i>Journal of the American College of Cardiology</i> , 2014, 63, 1961-1971. | 2.8 | 88 |
| 72 | Endotoxins Stimulate Neutrophil Adhesion Followed by Synthesis and Release of Platelet-activating Factor in Microparticles. <i>Journal of Biological Chemistry</i> , 2003, 278, 33161-33168. | 3.4 | 86 |

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|----|--|-----|-----------|
| 73 | Spatial organization of lipids in the human retina and optic nerve by MALDI imaging mass spectrometry. <i>Journal of Lipid Research</i> , 2014, 55, 504-515. | 4.2 | 85 |
| 74 | Oxidized Phospholipids Derived from Ozone-Treated Lung Surfactant Extract Reduce Macrophage and Epithelial Cell Viability. <i>Chemical Research in Toxicology</i> , 2002, 15, 896-906. | 3.3 | 83 |
| 75 | MALDI imaging MS of phospholipids in the mouse lung. <i>Journal of Lipid Research</i> , 2011, 52, 1551-1560. | 4.2 | 83 |
| 76 | Activation of liver X receptor/retinoid X receptor pathway ameliorates liver disease in Atp7B ^{-/-} (Wilson disease) mice. <i>Hepatology</i> , 2016, 63, 1828-1841. | 7.3 | 82 |
| 77 | Rapid extraction of leukotrienes from biologic fluids and quantitation by high-performance liquid chromatography. <i>Biomedical Applications</i> , 1982, 233, 193-201. | 1.7 | 81 |
| 78 | Signaling via Macrophage G2A Enhances Efferocytosis of Dying Neutrophils by Augmentation of Rac Activity. <i>Journal of Biological Chemistry</i> , 2011, 286, 12108-12122. | 3.4 | 81 |
| 79 | Identification of Functional Platelet-Activating Factor Receptors on Human Keratinocytes. <i>Journal of Investigative Dermatology</i> , 1995, 105, 816-823. | 0.7 | 79 |
| 80 | New families of bioactive oxidized phospholipids generated by immune cells: identification and signaling actions. <i>Blood</i> , 2012, 120, 1985-1992. | 1.4 | 79 |
| 81 | Susceptibility of plasmemyl glycerophosphoethanolamine lipids containing arachidonate to oxidative degradation. <i>Free Radical Biology and Medicine</i> , 1999, 26, 275-284. | 2.9 | 78 |
| 82 | Electrospray ionization mass spectrometry of. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 283-291. | 2.8 | 78 |
| 83 | Transcellular biosynthesis of cysteinyl leukotrienes in vivo during mouse peritoneal inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8296-8301. | 7.1 | 78 |
| 84 | Inhibition of leukotriene biosynthesis in mastocytoma cells by diethylcarbamazine. <i>Biochemical Pharmacology</i> , 1982, 31, 2129-2132. | 4.4 | 76 |
| 85 | Isoleukotrienes Are Biologically Active Free Radical Products of Lipid Peroxidation. <i>Journal of Biological Chemistry</i> , 1995, 270, 17273-17278. | 3.4 | 75 |
| 86 | Expression of the Platelet-activating Factor Receptor Results in Enhanced Ultraviolet B Radiation-induced Apoptosis in a Human Epidermal Cell Line. <i>Journal of Biological Chemistry</i> , 1998, 273, 18891-18897. | 3.4 | 75 |
| 87 | A complex LuxR ⁺ /LuxI type quorum sensing network in a roseobacterial marine sponge symbiont activates flagellar motility and inhibits biofilm formation. <i>Molecular Microbiology</i> , 2012, 85, 916-933. | 2.5 | 75 |
| 88 | The role of PGE2 in intestinal inflammation and tumorigenesis. <i>Prostaglandins and Other Lipid Mediators</i> , 2015, 116-117, 26-36. | 1.9 | 75 |
| 89 | Determination of Double Bond Positions in Polyunsaturated Fatty Acids Using the Photochemical PaternÅ²-BÄ¼chi Reaction with Acetone and Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 8545-8553. | 6.5 | 73 |
| 90 | Novel glutathione conjugates formed from epoxyeicosatrienoic acids (EETs). <i>Archives of Biochemistry and Biophysics</i> , 1985, 242, 225-230. | 3.0 | 71 |

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|-----|---|-----|-----------|
| 91 | Formation of eicosanoids, E2/D2 isoprostanes, and docosanoids following decapitation-induced ischemia, measured in high-energy-microwaved rat brain. <i>Journal of Lipid Research</i> , 2008, 49, 1990-2000. | 4.2 | 71 |
| 92 | Dual 12/15- and 5-Lipoxygenase Deficiency in Macrophages Alters Arachidonic Acid Metabolism and Attenuates Peritonitis and Atherosclerosis in ApoE Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2009, 284, 21077-21089. | 3.4 | 71 |
| 93 | A phosphatidylinositol transfer protein integrates phosphoinositide signaling with lipid droplet metabolism to regulate a developmental program of nutrient stress-induced membrane biogenesis. <i>Molecular Biology of the Cell</i> , 2014, 25, 712-727. | 2.1 | 71 |
| 94 | Transcellular biosynthesis of eicosanoid lipid mediators. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 377-382. | 2.4 | 71 |
| 95 | Formation, Signaling and Occurrence of Specialized Pro-Resolving Lipid Mediators—What is the Evidence so far?. <i>Frontiers in Pharmacology</i> , 2022, 13, 838782. | 3.5 | 70 |
| 96 | Analysis of Stable Oxidized Molecular Species of Glycerophospholipids Following Treatment of Red Blood Cell Ghosts with t-Butylhydroperoxide. <i>Analytical Biochemistry</i> , 1998, 258, 184-194. | 2.4 | 68 |
| 97 | Low-Intensity Exercise Training Delays Heart Failure and Improves Survival in Female Hypertensive Heart Failure Rats. <i>Hypertension</i> , 2008, 51, 1096-1102. | 2.7 | 68 |
| 98 | Electrospray MS/MS reveals extensive and nonspecific oxidation of cholesterol esters in human peripheral vascular lesions. <i>Journal of Lipid Research</i> , 2011, 52, 2070-2083. | 4.2 | 68 |
| 99 | Synthesis and back exchange of ¹⁸ O labeled amino acids for use as internal standards with mass spectrometry. <i>Biomedical Mass Spectrometry</i> , 1979, 6, 309-314. | 1.9 | 66 |
| 100 | Mass spectrometric analysis of four regioisomers of F2-isoprostanes formed by free radical oxidation of arachidonic acid. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 490-499. | 2.8 | 66 |
| 101 | Cysteinyl leukotriene receptor activation in brain inflammatory reactions and cerebral edema formation: a role for transcellular biosynthesis of cysteinyl leukotrienes. <i>FASEB Journal</i> , 2004, 18, 842-844. | 0.5 | 66 |
| 102 | Sphingolipid distribution changes with age in the human lens. <i>Journal of Lipid Research</i> , 2010, 51, 2753-2760. | 4.2 | 66 |
| 103 | Deletion of 5-Lipoxygenase in the Tumor Microenvironment Promotes Lung Cancer Progression and Metastasis through Regulating T Cell Recruitment. <i>Journal of Immunology</i> , 2016, 196, 891-901. | 0.8 | 66 |
| 104 | Relationship between MALDI IMS Intensity and Measured Quantity of Selected Phospholipids in Rat Brain Sections. <i>Analytical Chemistry</i> , 2010, 82, 8476-8484. | 6.5 | 65 |
| 105 | Pulmonary Surfactant Phosphatidylglycerol Inhibits Mycoplasma pneumoniae-stimulated Eicosanoid Production from Human and Mouse Macrophages. <i>Journal of Biological Chemistry</i> , 2011, 286, 7841-7853. | 3.4 | 65 |
| 106 | Leukotriene C elicits a prolonged excitation of cerebellar Purkinje neurons. <i>Neuroscience Letters</i> , 1980, 18, 173-180. | 2.1 | 64 |
| 107 | 25-Hydroxycholesterol Activates the Integrated Stress Response to Reprogram Transcription and Translation in Macrophages. <i>Journal of Biological Chemistry</i> , 2013, 288, 35812-35823. | 3.4 | 64 |
| 108 | Inhibition of macrophage fatty acid β -oxidation exacerbates palmitate-induced inflammatory and endoplasmic reticulum stress responses. <i>Diabetologia</i> , 2014, 57, 1067-1077. | 6.3 | 64 |

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|-----|--|-----|-----------|
| 109 | Apoptosis induced by ozone and oxysterols in human alveolar epithelial cells. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1513-1524. | 2.9 | 63 |
| 110 | Linoleate-Rich High-Fat Diet Decreases Mortality in Hypertensive Heart Failure Rats Compared With Lard and Low-Fat Diets. <i>Hypertension</i> , 2008, 52, 549-555. | 2.7 | 62 |
| 111 | Characterization of platelet aminophospholipid externalization reveals fatty acids as molecular determinants that regulate coagulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5875-5880. | 7.1 | 62 |
| 112 | Influenza induces IL-8 and GM-CSF secretion by human alveolar epithelial cells through HGF/c-Met and TGF- β /EGFR signaling. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L1178-L1188. | 2.9 | 62 |
| 113 | The role of calcium-independent phospholipase A2 in cardiolipin remodeling in the spontaneously hypertensive heart failure rat heart. <i>Journal of Lipid Research</i> , 2010, 51, 525-534. | 4.2 | 60 |
| 114 | Fast atom bombardment and collision-induced dissociation of prostaglandins and thromboxanes: Some examples of charge remote fragmentation. <i>Journal of the American Society for Mass Spectrometry</i> , 1990, 1, 325-335. | 2.8 | 59 |
| 115 | Relationship between a Common Variant in the Fatty Acid Desaturase (FADS) Cluster and Eicosanoid Generation in Humans. <i>Journal of Biological Chemistry</i> , 2014, 289, 22482-22489. | 3.4 | 59 |
| 116 | Determination of sulfidopeptide leukotrienes in biological fluids by gas chromatography mass spectrometry. <i>Analytical Chemistry</i> , 1986, 58, 1098-1101. | 6.5 | 58 |
| 117 | Low-energy fast atom bombardment tandem mass spectrometry of monohydroxy substituted unsaturated fatty acids. <i>Biological Mass Spectrometry</i> , 1993, 22, 465-473. | 0.5 | 58 |
| 118 | Electrospray ionization and low energy tandem mass spectrometry of polyhydroxy unsaturated fatty acids. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 140-149. | 2.8 | 58 |
| 119 | MALDI imaging of lipids after matrix sublimation/deposition. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 970-975. | 2.4 | 57 |
| 120 | Analysis of diacylglycerol molecular species in cellular lipid extracts by normal-phase LC-electrospray mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 305, 103-108. | 1.5 | 57 |
| 121 | Ozone Exposure in Vivo and Formation of Biologically Active Oxysterols in the Lung. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 312, 256-264. | 2.5 | 56 |
| 122 | Enzymatic preparation of carboxyl oxygen-18 labeled prostaglandin F 2α and utility for quantitative mass spectrometry. <i>Analytical Biochemistry</i> , 1981, 111, 115-121. | 2.4 | 55 |
| 123 | Biological activity and metabolism of 20 α -hydroxyeicosatetraenoic acid in the human platelet. <i>British Journal of Pharmacology</i> , 1992, 106, 267-274. | 5.4 | 55 |
| 124 | Pathways Regulating Cytosolic Phospholipase A2 Activation and Eicosanoid Production in Macrophages by <i>Candida albicans</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 30676-30685. | 3.4 | 55 |
| 125 | Enzymatically oxidized phospholipids assume center stage as essential regulators of innate immunity and cell death. <i>Science Signaling</i> , 2019, 12, . | 3.6 | 55 |
| 126 | Stable isotope labelled 5-lipoxygenase metabolites of arachidonic acid: Analysis by negative ion chemical ionization mass spectrometry. <i>Prostaglandins, Leukotrienes, and Medicine</i> , 1984, 13, 1-8. | 0.7 | 52 |

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|-----|---|------|-----------|
| 127 | Diethylcarbamazine Inhibits Acute and Chronic Hypoxic Pulmonary Hypertension in Awake Rats. The American Review of Respiratory Disease, 1985, 131, 488-492. | 2.9 | 52 |
| 128 | Negative electrospray ionization of glycerophosphocholine lipids: Formation of [M - 15] ⁻ ions occurs via collisional decomposition of adduct anions. Journal of Mass Spectrometry, 1995, 30, 1772-1773. | 1.6 | 52 |
| 129 | Fatty acid binding proteins stabilize leukotriene A4. Journal of Lipid Research, 2004, 45, 2138-2144. | 4.2 | 52 |
| 130 | Preparation of oxygen-18-labeled lipoxygenase metabolites of arachidonic acid. Biological Mass Spectrometry, 1985, 12, 714-718. | 0.5 | 51 |
| 131 | New Applications of Mass Spectrometry in Lipid Analysis. Journal of Biological Chemistry, 2011, 286, 25427-25433. | 3.4 | 51 |
| 132 | Dietary linoleate preserves cardiolipin and attenuates mitochondrial dysfunction in the failing rat heart. Cardiovascular Research, 2012, 94, 460-468. | 3.8 | 51 |
| 133 | Platelet-Activating Factor Biosynthesis Induced by Various Stimuli in Human HaCaT Keratinocytes. Journal of Investigative Dermatology, 1996, 107, 88-94. | 0.7 | 50 |
| 134 | Quantitative assays for esterified oxylipins generated by immune cells. Nature Protocols, 2010, 5, 1919-1931. | 12.0 | 50 |
| 135 | Increased Synthesis of Leukotrienes in the Mouse Model of Diabetic Retinopathy. , 2010, 51, 1699. | | 50 |
| 136 | Eicosanoid Profiling in an Orthotopic Model of Lung Cancer Progression by Mass Spectrometry Demonstrates Selective Production of Leukotrienes by Inflammatory Cells of the Microenvironment. PLoS ONE, 2013, 8, e79633. | 2.5 | 50 |
| 137 | Differential Metabolism of Exogenous and Endogenous Arachidonic Acid in Human Neutrophils. Journal of Biological Chemistry, 1999, 274, 28264-28269. | 3.4 | 49 |
| 138 | Qualitative Analysis and Quantitative Assessment of Changes in Neutral Glycerol Lipid Molecular Species Within Cells. Methods in Enzymology, 2007, 432, 1-20. | 1.0 | 48 |
| 139 | Lithium modifies brain arachidonic and docosahexaenoic metabolism in rat lipopolysaccharide model of neuroinflammation. Journal of Lipid Research, 2010, 51, 1049-1056. | 4.2 | 48 |
| 140 | Comparison of biological-derived and synthetic leukotriene C4 by fast atom bombardment mass spectrometry. Prostaglandins, 1982, 23, 201-206. | 1.2 | 47 |
| 141 | Stimulated production and natural occurrence of 1,2-diarachidonoylglycerophosphocholine in human neutrophils. Biochemical and Biophysical Research Communications, 1987, 145, 1126-1133. | 2.1 | 47 |
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