

Ilya Bederman

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

933
citations

567281

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501196

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times ranked

1741
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Accumulation of 8,9-unsaturated sterols drives oligodendrocyte formation and remyelination. <i>Nature</i> , 2018, 560, 372-376. | 27.8 | 170 |
| 2 | Quantitative H ₂ S-mediated protein sulfhydration reveals metabolic reprogramming during the integrated stress response. <i>ELife</i> , 2015, 4, e10067. | 6.0 | 154 |
| 3 | Cholestenic Acid Is an Important Elimination Product of Cholesterol in the Retina: Comparison of Retinal Cholesterol Metabolism with That in the Brain. , 2011, 52, 594. | | 84 |
| 4 | Effect of Bubble Concentration on the in Vitro and in Vivo Performance of Highly Stable Lipid Shell-Stabilized Micro- and Nanoscale Ultrasound Contrast Agents. <i>Langmuir</i> , 2019, 35, 10192-10202. | 3.5 | 48 |
| 5 | Dynamic repression by BCL6 controls the genome-wide liver response to fasting and steatosis. <i>ELife</i> , 2019, 8, . | 6.0 | 44 |
| 6 | Conversion of 7-ketocholesterol to oxysterol metabolites by recombinant CYP27A1 and retinal pigment epithelial cells. <i>Journal of Lipid Research</i> , 2011, 52, 1117-1127. | 4.2 | 38 |
| 7 | Regulation of Intestinal Inflammation by Dietary Fats. <i>Frontiers in Immunology</i> , 2020, 11, 604989. | 4.8 | 36 |
| 8 | Chronic hindlimb suspension unloading markedly decreases turnover rates of skeletal and cardiac muscle proteins and adipose tissue triglycerides. <i>Journal of Applied Physiology</i> , 2015, 119, 16-26. | 2.5 | 28 |
| 9 | Discovery of a Redox Thiol Switch: Implications for Cellular Energy Metabolism. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 852-870. | 3.8 | 28 |
| 10 | Theoretical and Experimental Gas Volume Quantification of Micro- and Nanobubble Ultrasound Contrast Agents. <i>Pharmaceutics</i> , 2020, 12, 208. | 4.5 | 27 |
| 11 | Diverse Chemical Scaffolds Enhance Oligodendrocyte Formation by Inhibiting CYP51, TM7SF2, or EBP. <i>Cell Chemical Biology</i> , 2019, 26, 593-599.e4. | 5.2 | 24 |
| 12 | Regulatory role of β -arrestin-2 in cholesterol processing in cystic fibrosis epithelial cells. <i>Journal of Lipid Research</i> , 2012, 53, 1268-1276. | 4.2 | 19 |
| 13 | ADEMA: An Algorithm to Determine Expected Metabolite Level Alterations Using Mutual Information. <i>PLoS Computational Biology</i> , 2013, 9, e1002859. | 3.2 | 18 |
| 14 | Deficiency in Acyl-CoA:Wax Alcohol Acyltransferase 2 causes evaporative dry eye disease by abolishing biosynthesis of wax esters. <i>FASEB Journal</i> , 2020, 34, 13792-13808. | 0.5 | 18 |
| 15 | Delaying latency to hyperbaric oxygen-induced CNS oxygen toxicity seizures by combinations of exogenous ketone supplements. <i>Physiological Reports</i> , 2019, 7, e13961. | 1.7 | 17 |
| 16 | Triheptanoin alters [U- ¹³ C ₆]-glucose incorporation into glycolytic intermediates and increases TCA cycling by normalizing the activities of pyruvate dehydrogenase and oxoglutarate dehydrogenase in a chronic epilepsy mouse model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 678-691. | 4.3 | 16 |
| 17 | Modulation of lanosterol synthase drives 24,25-epoxysterol synthesis and oligodendrocyte formation. <i>Cell Chemical Biology</i> , 2021, 28, 866-875.e5. | 5.2 | 16 |
| 18 | Growth deficits in cystic fibrosis mice begin in utero prior to IGF-1 reduction. <i>PLoS ONE</i> , 2017, 12, e0175467. | 2.5 | 15 |

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|----|---|------|-----------|
| 19 | Function of phosphoenolpyruvate carboxykinase in mammary gland epithelial cells. <i>Journal of Lipid Research</i> , 2011, 52, 1352-1362. | 4.2 | 14 |
| 20 | Altered de novo lipogenesis contributes to low adipose stores in cystic fibrosis mice. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, G507-G518. | 3.4 | 13 |
| 21 | Studies of ApoD ^{-/-} and ApoD ^{-/-} ApoE ^{-/-} mice uncover the APOD significance for retinal metabolism, function, and status of chorioretinal blood vessels. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 963-983. | 5.4 | 13 |
| 22 | Safety, efficacy, and tolerability of memantine for cognitive and adaptive outcome measures in adolescents and young adults with Down syndrome: a randomised, double-blind, placebo-controlled phase 2 trial. <i>Lancet Neurology</i> , The, 2022, 21, 31-41. | 10.2 | 13 |
| 23 | Time course of hepatic gluconeogenesis during hindlimb suspension unloading. <i>Experimental Physiology</i> , 2013, 98, 278-289. | 2.0 | 10 |
| 24 | Intracellular vesicle entrapment of nanobubble ultrasound contrast agents targeted to PSMA promotes prolonged enhancement and stability <i>in vivo</i> and <i>in vitro</i> . <i>Nanotheranostics</i> , 2022, 6, 270-285. | 5.2 | 10 |
| 25 | A NEW METABOLOMICS ANALYSIS TECHNIQUE: STEADY-STATE METABOLIC NETWORK DYNAMICS ANALYSIS. <i>Journal of Bioinformatics and Computational Biology</i> , 2012, 10, 1240003. | 0.8 | 9 |
| 26 | <i>S</i> -Nitrosoglutathione formation at gastric pH is augmented by ascorbic acid and by the antioxidant vitamin complex, Resiston. <i>Pharmaceutical Biology</i> , 2018, 56, 86-93. | 2.9 | 9 |
| 27 | Brain Acetyl-CoA Production and Phosphorylation of Cytoskeletal Proteins Are Targets of CYP46A1 Activity Modulation and Altered Sterol Flux. <i>Neurotherapeutics</i> , 2021, 18, 2040-2060. | 4.4 | 9 |
| 28 | Pharmacokinetic study of Sudaxine in dog plasma using novel LC-MS/MS method. <i>Drug Testing and Analysis</i> , 2019, 11, 403-410. | 2.6 | 8 |
| 29 | Inhibition of SC4MOL and HSD17B7 shifts cellular sterol composition and promotes oligodendrocyte formation. <i>RSC Chemical Biology</i> , 2022, 3, 56-68. | 4.1 | 7 |
| 30 | Novel DYRK1A Inhibitor Rescues Learning and Memory Deficits in a Mouse Model of Down Syndrome. <i>Pharmaceuticals</i> , 2021, 14, 1170. | 3.8 | 6 |
| 31 | Small adipose stores in cystic fibrosis mice are characterized by reduced cell volume, not cell number. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, G943-G953. | 3.4 | 5 |
| 32 | A Synthetic Small RNA Homologous to the D-Loop Transcript of mtDNA Enhances Mitochondrial Bioenergetics. <i>Frontiers in Physiology</i> , 2022, 13, 772313. | 2.8 | 3 |
| 33 | Effects of unloading (HS) and loading (exercise training) on overall work capacity in rats.. <i>FASEB Journal</i> , 2008, 22, 121-121. | 0.5 | 0 |
| 34 | Effects Of Loading And Unloading On Physical Performance And Cardiovascular Function In Rats. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 203. | 0.4 | 0 |