Bradford G Hill

List of Publications by Year
in descending order

108 papers	11,940 citations	57758 44 h-index	30087 103 g-index
111 all docs	111 docs citations	111 times ranked	24187 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Integration of cellular bioenergetics with mitochondrial quality control and autophagy. Biological Chemistry, 2012, 393, 1485-1512.	2.5	376
3	Assessing bioenergetic function in response to oxidative stress by metabolic profiling. Free Radical Biology and Medicine, 2011, 51, 1621-1635.	2.9	372
4	Mitochondrial reserve capacity in endothelial cells: The impact of nitric oxide and reactive oxygen species. Free Radical Biology and Medicine, 2010, 48, 905-914.	2.9	290
5	What Part of NO Don't You Understand? Some Answers to the Cardinal Questions in Nitric Oxide Biology. Journal of Biological Chemistry, 2010, 285, 19699-19704.	3.4	269
6	Comprehensive measurement of respiratory activity in permeabilized cells using extracellular flux analysis. Nature Protocols, 2014, 9, 421-438.	12.0	259
7	Importance of the bioenergetic reserve capacity in response to cardiomyocyte stress induced by 4-hydroxynonenal. Biochemical Journal, 2009, 424, 99-107.	3.7	246
8	Metabolic Coordination of Physiological and Pathological Cardiac Remodeling. Circulation Research, 2018, 123, 107-128.	4.5	232
9	Cardioprotection by N -Acetylglucosamine Linkage to Cellular Proteins. Circulation, 2008, 117, 1172-1182.	1.6	215
10	Redox regulation of antioxidants, autophagy, and the response to stress: Implications for electrophile therapeutics. Free Radical Biology and Medicine, 2014, 71, 196-207.	2.9	207
11	Regulation of obesity and insulin resistance by nitric oxide. Free Radical Biology and Medicine, 2014, 73, 383-399.	2.9	198
12	Metabolomic Analysis of Pressure-Overloaded and Infarcted Mouse Hearts. Circulation: Heart Failure, 2014, 7, 634-642.	3.9	181
13	PDGF-mediated autophagy regulates vascular smooth muscle cell phenotype and resistance to oxidative stress. Biochemical Journal, 2013, 451, 375-388.	3.7	175
14	Control of glutamine metabolism by the tumor suppressor Rb. Oncogene, 2014, 33, 556-566.	5.9	169
15	Oxidized lipids activate autophagy in a JNK-dependent manner by stimulating the endoplasmic reticulum stress response. Redox Biology, 2013, 1, 56-64.	9.0	159
16	Unsaturated lipid peroxidation-derived aldehydes activate autophagy in vascular smooth-muscle cells. Biochemical Journal, 2008, 410, 525-534.	3.7	155
17	Mitochondrial fission induced by platelet-derived growth factor regulates vascular smooth muscle cell bioenergetics and cell proliferation. Redox Biology, 2013, 1, 542-551.	9.0	137
18	Bioenergetic function in cardiovascular cells: The importance of the reserve capacity and its biological regulation. Chemico-Biological Interactions, 2011, 191, 288-295.	4.0	134

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19	Overexpression of Endothelial Nitric Oxide Synthase Prevents Diet-Induced Obesity and Regulates Adipocyte Phenotype. Circulation Research, 2012, 111, 1176-1189.	4.5	134
20	Metabolic remodeling of white adipose tissue in obesity. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E262-E277.	3.5	130
21	ProteinO-GlcNAcylation: a new signaling paradigm for the cardiovascular system. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H13-H28.	3.2	129
22	Cardiac Myocyteâ€“Specific Expression of Inducible Nitric Oxide Synthase Protects Against Ischemia/Reperfusion Injury by Preventing Mitochondrial Permeability Transition. Circulation, 2008, 118, 1970-1978.	1.6	109
23	Protein glutathiolation by nitric oxide: an intracellular mechanism regulating redox protein modification. FASEB Journal, 2006, 20, 1715-1717.	0.5	108
24	Transcription factor c-Maf is a checkpoint that programs macrophages in lung cancer. Journal of Clinical Investigation, 2020, 130, 2081-2096.	8.2	108
25	Downregulation of CuZn-superoxide dismutase contributes to Î²-adrenergic receptor-mediated oxidative stress in the heart. Cardiovascular Research, 2007, 74, 445-455.	3.8	107
26	Protein S-glutathiolation: Redox-sensitive regulation of protein function. Journal of Molecular and Cellular Cardiology, 2012, 52, 559-567.	1.9	106
27	Lipid Peroxidation Product 4-Hydroxy-trans-2-nonenal Causes Endothelial Activation by Inducing Endoplasmic Reticulum Stress. Journal of Biological Chemistry, 2012, 287, 11398-11409.	3.4	105
28	Exercise-Induced Changes in Glucose Metabolism Promote Physiological Cardiac Growth. Circulation, 2017, 136, 2144-2157.	1.6	103
29	Role of cellular bioenergetics in smooth muscle cell proliferation induced by platelet-derived growth factor. Biochemical Journal, 2010, 428, 255-267.	3.7	93
30	Mitochondrial calcium exchange links metabolism with the epigenome to control cellular differentiation. Nature Communications, 2019, 10, 4509.	12.8	93
31	Mechanisms of acrolein-induced myocardial dysfunction: implications for environmental and endogenous aldehyde exposure. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H3673-H3684.	3.2	92
32	Implications of autophagy for vascular smooth muscle cell function and plasticity. Free Radical Biology and Medicine, 2013, 65, 693-703.	2.9	86
33	Methods for the determination and quantification of the reactive thiol proteome. Free Radical Biology and Medicine, 2009, 47, 675-683.	2.9	84
34	Regulation of vascular smooth muscle cell bioenergetic function by protein glutathiolation. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 285-295.	1.0	78
35	Cardiomyocyte Ogt is essential for postnatal viability. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H142-H153.	3.2	78
36	Autophagic regulation of smooth muscle cell biology. Redox Biology, 2015, 4, 97-103.	9.0	78

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37	Standardized bioenergetic profiling of adult mouse cardiomyocytes. Physiological Genomics, 2012, 44, 1208-1213.	2.3	64
38	Physiological Biomimetic Culture System for Pig and Human Heart Slices. Circulation Research, 2019, 125, 628-642.	4.5	60
39	Metabolic Mechanisms of Exercise-Induced Cardiac Remodeling. Frontiers in Cardiovascular Medicine, 2018, 5, 127.	2.4	56
40	Integration of flux measurements to resolve changes in anabolic and catabolic metabolism in cardiac myocytes. Biochemical Journal, 2017, 474, 2785-2801.	3.7	55
41	Protein O-GlcNAcylation Is a Novel Cytoprotective Signal in Cardiac Stem Cells. Stem Cells, 2013, 31, 765-775.	3.2	54
42	Skeletal Muscle Lipid Peroxidation and Insulin Resistance in Humans. Journal of Clinical Endocrinology and Metabolism, 2012, 97, E1182-E1186.	3.6	53
43	Distribution based nearest neighbor imputation for truncated high dimensional data with applications to pre-clinical and clinical metabolomics studies. BMC Bioinformatics, 2017, 18, 114.	2.6	52
44	Glutamine Regulates Cardiac Progenitor Cell Metabolism and Proliferation. Stem Cells, 2015, 33, 2613-2627.	3.2	46
45	Bioenergetic differences between MCF-7 and T47D breast cancer cells and their regulation by oestradiol and tamoxifen. Biochemical Journal, 2015, 465, 49-61.	3.7	46
46	Role of glutathiolation in preservation, restoration and regulation of protein function. IUBMB Life, 2007, 59, 21-26.	3.4	44
47	Myocardial ischaemia inhibits mitochondrial metabolism of 4-hydroxy-trans-2-nonenal. Biochemical Journal, 2009, 417, 513-524.	3.7	44
48	Cardiac mesenchymal cells from diabetic mice are ineffective for cell therapy-mediated myocardial repair. Basic Research in Cardiology, 2018, 113, 46.	5.9	41
49	Bioenergetics and translational metabolism: implications for genetics, physiology and precision medicine. Biological Chemistry, 2019, 401, 3-29.	2.5	41
50	Measurement and Identification of S-Glutathiolated Proteins. Methods in Enzymology, 2010, 473, 179-197.	1.0	40
51	High glucose induces mitochondrial dysfunction independently of protein O-GlcNAcylation. Biochemical Journal, 2015, 467, 115-126.	3.7	39
52	Vinyl Chloride Metabolites Potentiate Inflammatory Liver Injury Caused by LPS in Mice. Toxicological Sciences, 2016, 151, 312-323.	3.1	38
53	TAK1 regulates skeletal muscle mass and mitochondrial function. JCI Insight, 2018, 3, .	5.0	38
54	Beyond Reactive Oxygen Species. Circulation Research, 2009, 105, 1044-1046.	4.5	35

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55	Type 2 Diabetes Dysregulates Glucose Metabolism in Cardiac Progenitor Cells. Journal of Biological Chemistry, 2016, 291, 13634-13648.	3.4	35
56	Genetic Deficiency of Glutathione S -Transferase P Increases Myocardial Sensitivity to Ischemiaâ€“Reperfusion Injury. Circulation Research, 2015, 117, 437-449.	4.5	34
57	Aldose reductase decreases endoplasmic reticulum stress in ischemic hearts. Chemico-Biological Interactions, 2009, 178, 242-249.	4.0	33
58	Methods for imaging and detecting modification of proteins by reactive lipid species. Free Radical Biology and Medicine, 2009, 47, 201-212.	2.9	32
59	CCR7 Maintains Nonresolving Lymph Node and Adipose Inflammation in Obesity. Diabetes, 2016, 65, 2268-2281.	0.6	32
60	TWEAK promotes exercise intolerance by decreasing skeletal muscle oxidative phosphorylation capacity. Skeletal Muscle, 2013, 3, 18.	4.2	30
61	Nuclear respiratory factor-1 and bioenergetics in tamoxifen-resistant breast cancer cells. Experimental Cell Research, 2016, 347, 222-231.	2.6	30
62	Quercetin prevents left ventricular hypertrophy in the Apo E knockout mouse. Redox Biology, 2013, 1, 381-386.	9.0	29
63	High throughput measurement of metabolism in planarians reveals activation of glycolysis during regeneration. Regeneration (Oxford, England), 2018, 5, 78-86.	6.3	29
64	Fine particulate matter (PM_{2.5}) inhalation-induced alterations in the plasma lipidome as promoters of vascular inflammation and insulin resistance. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1836-H1850.	3.2	27
65	Identification of a plasma metabolomic signature of thrombotic myocardial infarction that is distinct from non-thrombotic myocardial infarction and stable coronary artery disease. PLoS ONE, 2017, 12, e0175591.	2.5	27
66	Transient Cell Cycle Induction in Cardiomyocytes to Treat Subacute Ischemic Heart Failure. Circulation, 2022, 145, 1339-1355.	1.6	27
67	Responses of hypertrophied myocytes to reactive species: implications for glycolysis and electrophile metabolism. Biochemical Journal, 2011, 435, 519-528.	3.7	26
68	Impact of nutrient excess and endothelial nitric oxide synthase on the plasma metabolite profile in mice. Frontiers in Physiology, 2014, 5, 453.	2.8	22
69	FVB/NJ Mice Are a Useful Model for Examining Cardiac Adaptations to Treadmill Exercise. Frontiers in Physiology, 2016, 7, 636.	2.8	22
70	S-Nitrosation and thiol switching in the mitochondrion: a new paradigm for cardioprotection in ischaemic preconditioning. Biochemical Journal, 2008, 412, e11-e13.	3.7	20
71	Utilization of fluorescent probes for the quantification and identification of subcellular proteomes and biological processes regulated by lipid peroxidation products. Free Radical Biology and Medicine, 2013, 59, 56-68.	2.9	20
72	Analysis of stable isotope assisted metabolomics data acquired by high resolution mass spectrometry. Analytical Methods, 2017, 9, 2275-2283.	2.7	20

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73	Heart slice culture system reliably demonstrates clinical drug-related cardiotoxicity. Toxicology and Applied Pharmacology, 2020, 406, 115213.	2.8	19
74	Integration of flux measurements and pharmacological controls to optimize stable isotope-resolved metabolomics workflows and interpretation. Scientific Reports, 2019, 9, 13705.	3.3	18
75	Exercise Promotes Resolution of Acute Inflammation by Catecholamine-Mediated Stimulation of Resolvin D1 Biosynthesis. Journal of Immunology, 2019, 203, 3013-3022.	0.8	18
76	Antiobesogenic Role of Endothelial Nitric Oxide Synthase. Vitamins and Hormones, 2014, 96, 323-346.	1.7	16
77	Distinct roles of TRAF6 and TAK1 in the regulation of adipocyte survival, thermogenesis program, and high-fat diet-induced obesity. Oncotarget, 2017, 8, 112565-112583.	1.8	16
78	Metabolic Determinants of Cardiomyocyte Proliferation. Stem Cells, 2022, 40, 458-467.	3.2	16
79	Systems characterization of differential plasma metabolome perturbations following thrombotic and non-thrombotic myocardial infarction. Journal of Proteomics, 2017, 160, 38-46.	2.4	15
80	Mitochondria-associated lactate dehydrogenase is not a biologically significant contributor to bioenergetic function in murine striated muscle. Redox Biology, 2019, 24, 101177.	9.0	15
81	Glutaminolysis is Essential for Myofibroblast Persistence and In Vivo Targeting Reverses Fibrosis and Cardiac Dysfunction in Heart Failure. Circulation, 2022, 145, 1625-1628.	1.6	15
82	GlutathioneS-transferase P deficiency induces glucose intolerance via JNK-dependent enhancement of hepatic gluconeogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E1005-E1018.	3.5	14
83	Endothelial progenitor cells as critical mediators of environmental air pollution-induced cardiovascular toxicity. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1440-H1455.	3.2	14
84	Cell cycle induction in human cardiomyocytes is dependent on biosynthetic pathway activation. Redox Biology, 2021, 46, 102094.	9.0	14
85	Cardiac-specific overexpression of aldehyde dehydrogenase 2 exacerbates cardiac remodeling in response to pressure overload. Redox Biology, 2018, 17, 440-449.	9.0	13
86	Aldose reductase (AKR1B) deficiency promotes phagocytosis in bone marrow derived mouse macrophages. Chemico-Biological Interactions, 2017, 265, 16-23.	4.0	11
87	Insights into an adipocyte whitening program. Adipocyte, 2015, 4, 75-80.	2.8	9
88	Considerations for using isolated cell systems to understand cardiac metabolism and biology. Journal of Molecular and Cellular Cardiology, 2021, 153, 26-41.	1.9	8
89	Metabolic signatures of pregnancy-induced cardiac growth. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 323, H146-H164.	3.2	8
90	Influence of biological sex and exercise on murine cardiac metabolism. Journal of Sport and Health Science, 2022, 11, 479-494.	6.5	8

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91	Recent Advances in Mitochondrial Research. Circulation Research, 2013, 113, e107-10.	4.5	7
92	O-GlcNAcylation Negatively Regulates Cardiomyogenic Fate in Adult Mouse Cardiac Mesenchymal Stromal Cells. PLoS ONE, 2015, 10, e0142939.	2.5	6
93	A metabocentric view of cardiac remodeling. Current Opinion in Physiology, 2019, 10, 43-48.	1.8	6
94	Cardiac PANK1 deletion exacerbates ventricular dysfunction during pressure overload. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H784-H797.	3.2	6
95	In vivo deep network tracing reveals phosphofructokinase-mediated coordination of biosynthetic pathway activity in the myocardium. Journal of Molecular and Cellular Cardiology, 2022, 162, 32-42.	1.9	6
96	Subclinical markers of cardiovascular toxicity of benzene inhalation in mice. Toxicology and Applied Pharmacology, 2021, 431, 115742.	2.8	6
97	Circulating Prolidase Activity in Patients with Myocardial Infarction. Frontiers in Cardiovascular Medicine, 2017, 4, 50.	2.4	5
98	Pyridine nucleotide redox potential in coronary smooth muscle couples myocardial blood flow to cardiac metabolism. Nature Communications, 2022, 13, 2051.	12.8	5
99	NHERF1 Loss Upregulates Enzymes of the Pentose Phosphate Pathway in Kidney Cortex. Antioxidants, 2020, 9, 862.	5.1	3
100	Insights Into Metabolic Remodeling of the Hypertrophic and Failing Myocardium. Circulation: Heart Failure, 2014, 7, 874-876.	3.9	2
101	Mitogen-Mediated Autophagy Regulates Vascular Smooth Muscle Cell Phenotype. Free Radical Biology and Medicine, 2011, 51, S41-S42.	2.9	1
102	Novel insights into the role of glucose metabolism in regulating vascular smooth muscle cell phenotype and proliferative capacity. FASEB Journal, 2011, 25, 1026.33.	0.5	1
103	Editorial: Mechanisms by Which Acute and Chronic Exercise Promote Cardiometabolic Health. Frontiers in Cardiovascular Medicine, 2019, 6, 159.	2.4	0
104	Paraoxonase 2 Mediates Metabolic Reprogramming of Murine Tracheal Epithelial Cells in Response to the Quorum Sensing Molecule Nâ€(3â€oxododecanoyl)â€homoserine Lactone. FASEB Journal, 2021, 35, .	0.5	0
105	The lipid peroxidation product 4â€hydroxyâ€transâ€2â€nonenal (HNE) promotes unique ER stress responses. FASEB Journal, 2007, 21, A978.	0.5	0
106	Hyperglycemia suppresses cardiomyocyte bioenergetic reserve independent of Oâ€GlcNAcylation (1155.5). FASEB Journal, 2014, 28, 1155.5.	0.5	0
107	Nutrient excess promotes accumulation of bone marrowâ€derived progenitor cells in adipose tissue (641.12). FASEB Journal, 2014, 28, 641.12.	0.5	0
108	Glucose Metabolism Regulates Mitochondrial Supercomplex Abundance in Murine Heart. FASEB Journal, 2019, 33, .	0.5	0