

Anna Colell

List of Publications by Year in descending order

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77
papers

8,636
citations

50244

46
h-index

69214

77
g-index

83
all docs

83
docs citations

83
times ranked

10987
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Glutathione, a Key Survival Antioxidant. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2685-2700.	2.5	777
2	Direct Effect of Ceramide on the Mitochondrial Electron Transport Chain Leads to Generation of Reactive Oxygen Species. <i>Journal of Biological Chemistry</i> , 1997, 272, 11369-11377.	1.6	727
3	Mitochondrial free cholesterol loading sensitizes to TNF- and Fas-mediated steatohepatitis. <i>Cell Metabolism</i> , 2006, 4, 185-198.	7.2	537
4	GAPDH and Autophagy Preserve Survival after Apoptotic Cytochrome c Release in the Absence of Caspase Activation. <i>Cell</i> , 2007, 129, 983-997.	13.5	464
5	Selective glutathione depletion of mitochondria by ethanol sensitizes hepatocytes to tumor necrosis factor. <i>Gastroenterology</i> , 1998, 115, 1541-1551.	0.6	349
6	Role of oxidative stress generated from the mitochondrial electron transport chain and mitochondrial glutathione status in loss of mitochondrial function and activation of transcription factor nuclear factor-kappa B: studies with isolated mitochondria and rat hepatocytes. <i>Molecular Pharmacology</i> , 1995, 48, 825-34.	1.0	272
7	Alzheimer's Disease Mutant Mice Exhibit Reduced Brain Tissue Stiffness Compared to Wild-type Mice in both Normoxia and following Intermittent Hypoxia Mimicking Sleep Apnea. <i>Frontiers in Neurology</i> , 2018, 9, 1.	1.1	250
8	Novel roles for GAPDH in cell death and carcinogenesis. <i>Cell Death and Differentiation</i> , 2009, 16, 1573-1581.	5.0	232
9	Mitochondrial Cholesterol Contributes to Chemotherapy Resistance in Hepatocellular Carcinoma. <i>Cancer Research</i> , 2008, 68, 5246-5256.	0.4	219
10	Mitochondrial Glutathione: Importance and Transport. <i>Seminars in Liver Disease</i> , 1998, 18, 389-401.	1.8	203
11	Defective TNF- α -mediated hepatocellular apoptosis and liver damage in acidic sphingomyelinase knockout mice. <i>Journal of Clinical Investigation</i> , 2003, 111, 197-208.	3.9	200
12	Feeding S-adenosyl-L-methionine attenuates both ethanol-induced depletion of mitochondrial glutathione and mitochondrial dysfunction in periportal and perivenous rat hepatocytes. <i>Hepatology</i> , 1995, 21, 207-214.	3.6	193
13	Direct interaction of GD3 ganglioside with mitochondria generates reactive oxygen species followed by mitochondrial permeability transition, cytochrome c release, and caspase activation. <i>FASEB Journal</i> , 2000, 14, 847-858.	0.2	187
14	Caveolin-1 Deficiency Causes Cholesterol-Dependent Mitochondrial Dysfunction and Apoptotic Susceptibility. <i>Current Biology</i> , 2011, 21, 681-686.	1.8	175
15	Oxidative stress: Role of mitochondria and protection by glutathione. <i>BioFactors</i> , 1998, 8, 7-11.	2.6	170
16	Mitochondrial glutathione: Features, regulation and role in disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3317-3328.	1.1	160
17	Acetaldehyde impairs mitochondrial glutathione transport in HepG2 cells through endoplasmic reticulum stress. <i>Gastroenterology</i> , 2003, 124, 708-724.	0.6	155
18	Redox Control of Liver Function in Health and Disease. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 1295-1331.	2.5	155

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19	Mitochondrial Cholesterol Loading Exacerbates Amyloid β Peptide-Induced Inflammation and Neurotoxicity. <i>Journal of Neuroscience</i> , 2009, 29, 6394-6405.	1.7	134
20	Tumor Necrosis Factor Increases Hepatocellular Glutathione by Transcriptional Regulation of the Heavy Subunit Chain of γ -Glutamylcysteine Synthetase. <i>Journal of Biological Chemistry</i> , 1997, 272, 30371-30379.	1.6	133
21	Trafficking of Ganglioside GD3 to Mitochondria by Tumor Necrosis Factor- α . <i>Journal of Biological Chemistry</i> , 2002, 277, 36443-36448.	1.6	133
22	Sensitivity of the 2-oxoglutarate carrier to alcohol intake contributes to mitochondrial glutathione depletion. <i>Hepatology</i> , 2003, 38, 692-702.	3.6	127
23	Cholesterol Impairs the Adenine Nucleotide Translocator-mediated Mitochondrial Permeability Transition through Altered Membrane Fluidity. <i>Journal of Biological Chemistry</i> , 2003, 278, 33928-33935.	1.6	120
24	Recent Insights into the Mitochondrial Role in Autophagy and Its Regulation by Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-16.	1.9	102
25	APP/PS1 mice overexpressing SREBP-2 exhibit combined $A\beta$ accumulation and tau pathology underlying Alzheimer's disease. <i>Human Molecular Genetics</i> , 2013, 22, 3460-3476.	1.4	98
26	Cholesterol impairs autophagy-mediated clearance of amyloid beta while promoting its secretion. <i>Autophagy</i> , 2018, 14, 1129-1154.	4.3	97
27	Mechanism of Mitochondrial Glutathione-Dependent Hepatocellular Susceptibility to TNF Despite NF- κ B Activation. <i>Gastroenterology</i> , 2008, 134, 1507-1520.	0.6	96
28	Critical Role of Mitochondrial Glutathione in the Survival of Hepatocytes during Hypoxia. <i>Journal of Biological Chemistry</i> , 2005, 280, 3224-3232.	1.6	93
29	Cholesterol and peroxidized cardiolipin in mitochondrial membrane properties, permeabilization and cell death. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1217-1224.	0.5	90
30	Relevance of SIRT1-NF- κ B Axis as Therapeutic Target to Ameliorate Inflammation in Liver Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3858.	1.8	90
31	ASMase is required for chronic alcohol induced hepatic endoplasmic reticulum stress and mitochondrial cholesterol loading. <i>Journal of Hepatology</i> , 2013, 59, 805-813.	1.8	89
32	Mitochondrial Glutathione: Recent Insights and Role in Disease. <i>Antioxidants</i> , 2020, 9, 909.	2.2	89
33	Endoplasmic Reticulum Stress Mediates Amyloid β Neurotoxicity via Mitochondrial Cholesterol Trafficking. <i>American Journal of Pathology</i> , 2014, 184, 2066-2081.	1.9	85
34	Differential role of ethanol and acetaldehyde in the induction of oxidative stress in HEP G2 cells: Effect on transcription factors AP-1 and NF- κ B. <i>Hepatology</i> , 1999, 30, 1473-1480.	3.6	82
35	S-Adenosyl-l-methionine and mitochondrial reduced glutathione depletion in alcoholic liver disease. <i>Alcohol</i> , 2002, 27, 179-183.	0.8	82
36	Ganglioside GD3 enhances apoptosis by suppressing the nuclear factor- κ B-dependent survival pathway. <i>FASEB Journal</i> , 2001, 15, 1068-1070.	0.2	80

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37	Tauroursodeoxycholic acid protects hepatocytes from ethanol-fed rats against tumor necrosis factor α -induced cell death by replenishing mitochondrial glutathione. <i>Hepatology</i> , 2001, 34, 964-971.	3.6	75
38	Glycosphingolipids and mitochondria: Role in apoptosis and disease. <i>Glycoconjugate Journal</i> , 2003, 20, 579-588.	1.4	70
39	PGE 1 Protection against Apoptosis Induced by d-galactosamine is Not Related to the Modulation of Intracellular Free Radical Production in Primary Culture of Rat Hepatocytes. <i>Free Radical Research</i> , 2002, 36, 345-355.	1.5	67
40	Acidic sphingomyelinase downregulates the liver-specific methionine adenosyltransferase 1A, contributing to tumor necrosis factor α -induced lethal hepatitis. <i>Journal of Clinical Investigation</i> , 2004, 113, 895-904.	3.9	61
41	Ceramide generated by acidic sphingomyelinase contributes to tumor necrosis factor α -mediated apoptosis in human colon HT-29 cells through glycosphingolipids formation. <i>FEBS Letters</i> , 2002, 526, 135-141.	1.3	60
42	Transcriptional regulation of the heavy subunit chain of γ -glutamylcysteine synthetase by ionizing radiation. <i>FEBS Letters</i> , 1998, 427, 15-20.	1.3	57
43	Human placenta sphingomyelinase, an exogenous acidic pH-optimum sphingomyelinase, induces oxidative stress, glutathione depletion, and apoptosis in rat hepatocytes. <i>Hepatology</i> , 2000, 32, 56-65.	3.6	55
44	How Is the Liver Primed or Sensitized for Alcoholic Liver Disease?. <i>Alcoholism: Clinical and Experimental Research</i> , 2001, 25, 171S-181S.	1.4	50
45	Mitochondria, cholesterol and amyloid β peptide: a dangerous trio in Alzheimer disease. <i>Journal of Bioenergetics and Biomembranes</i> , 2009, 41, 417-423.	1.0	50
46	Evidence That the Rat Hepatic Mitochondrial Carrier Is Distinct from the Sinusoidal and Canalicular Transporters for Reduced Glutathione. <i>Journal of Biological Chemistry</i> , 1995, 270, 15946-15949.	1.6	48
47	Mitochondrial cholesterol accumulation in alcoholic liver disease: Role of ASMase and endoplasmic reticulum stress. <i>Redox Biology</i> , 2014, 3, 100-108.	3.9	44
48	Antiapoptotic BCL-2 proteins determine sorafenib/regorafenib resistance and BH3-mimetic efficacy in hepatocellular carcinoma. <i>Oncotarget</i> , 2018, 9, 16701-16717.	0.8	44
49	Chronic Ethanol Feeding Induces Cellular Antioxidants Decrease and Oxidative Stress in Rat Peripheral Nerves. Effect of S-Adenosyl-L-Methionine and N-Acetyl-L-Cysteine. <i>Free Radical Biology and Medicine</i> , 1998, 25, 365-368.	1.3	42
50	Cysteine cathepsins control hepatic NF κ B-dependent inflammation via sirtuin-1 regulation. <i>Cell Death and Disease</i> , 2016, 7, e2464-e2464.	2.7	42
51	Targeting glucosylceramide synthase upregulation reverts sorafenib resistance in experimental hepatocellular carcinoma. <i>Oncotarget</i> , 2016, 7, 8253-8267.	0.8	40
52	A Functional Role of GAS6/TAM in Nonalcoholic Steatohepatitis Progression Implicates AXL as Therapeutic Target. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 9, 349-368.	2.3	39
53	Cholesterol alters mitophagy by impairing optineurin recruitment and lysosomal clearance in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2021, 16, 15.	4.4	37
54	Mitochondrial permeability transition induced by reactive oxygen species is independent of cholesterol-regulated membrane fluidity. <i>FEBS Letters</i> , 2004, 560, 63-68.	1.3	36

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55	How Is the Liver Primed or Sensitized for Alcoholic Liver Disease?. <i>Alcoholism: Clinical and Experimental Research</i> , 2001, 25, 171S-181S.	1.4	36
56	Hepatocellular Carcinoma: Molecular Pathogenesis and Therapeutic Advances. <i>Cancers</i> , 2022, 14, 621.	1.7	34
57	Alcohol, Signaling, and ECM Turnover. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 4-18.	1.4	33
58	Acidic sphingomyelinase downregulates the liver-specific methionine adenosyltransferase 1A, contributing to tumor necrosis factor α -induced lethal hepatitis. <i>Journal of Clinical Investigation</i> , 2004, 113, 895-904.	3.9	32
59	Hepatocarcinogenesis and Ceramide/Cholesterol Metabolism. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2012, 12, 364-375.	0.9	30
60	Cholesterol and sphingolipids in alcohol-induced liver injury. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2008, 23, S9-S15.	1.4	29
61	Oxidative inactivation of amyloid beta-degrading proteases by cholesterol-enhanced mitochondrial stress. <i>Redox Biology</i> , 2019, 26, 101283.	3.9	27
62	Differential Role of Cathepsins S and B In Hepatic APC-Mediated NKT Cell Activation and Cytokine Secretion. <i>Frontiers in Immunology</i> , 2018, 9, 391.	2.2	24
63	Mitochondrial <i>S</i> -Adenosyl α -Methionine Transport is Insensitive to Alcohol-Mediated Changes in Membrane Dynamics. <i>Alcoholism: Clinical and Experimental Research</i> , 2009, 33, 1169-1180.	1.4	23
64	Divergent role of ceramide generated by exogenous sphingomyelinases on NF- κ B activation and apoptosis in human colon HT-29 cells. <i>FEBS Letters</i> , 2002, 526, 15-20.	1.3	22
65	Upregulation of brain cholesterol levels inhibits mitophagy in Alzheimer disease. <i>Autophagy</i> , 2021, 17, 1555-1557.	4.3	22
66	Conformationally restricted analogues of methionine: Synthesis of chiral 3-Amino-5-methylthio-2-piperidones. <i>Tetrahedron</i> , 1996, 52, 7727-7736.	1.0	20
67	Metabolic Therapy: Lessons from Liver Diseases. <i>Current Pharmaceutical Design</i> , 2011, 17, 3933-3944.	0.9	19
68	Ceramide, Tumor Necrosis Factor and Alcohol-Induced Liver Disease. <i>Alcoholism: Clinical and Experimental Research</i> , 2005, 29, 158S-161S.	1.4	18
69	Ganglioside GD3 enhances apoptosis by suppressing the nuclear factor κ B-dependent survival pathway. <i>FASEB Journal</i> , 2001, 15, 1068-1070.	0.2	15
70	Ageing and chronic intermittent hypoxia mimicking sleep apnea do not modify local brain tissue stiffness in healthy mice. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 106-113.	1.5	13
71	Regorafenib Alteration of the BCL-xL/MCL-1 Ratio Provides a Therapeutic Opportunity for BH3-Mimetics in Hepatocellular Carcinoma Models. <i>Cancers</i> , 2020, 12, 332.	1.7	13
72	Antioxidants Threaten Multikinase Inhibitor Efficacy against Liver Cancer by Blocking Mitochondrial Reactive Oxygen Species. <i>Antioxidants</i> , 2021, 10, 1336.	2.2	11

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73	Mitochondrial Oxidative and Nitrosative Stress as a Therapeutic Target in Diseases. <i>Antioxidants</i> , 2021, 10, 314.	2.2	8
74	HEPATIC MITOCHONDRIAL GLUTATHIONE DEPLETION AND CYTOKINE-MEDIATED ALCOHOLIC LIVER DISEASE. <i>Alcoholism: Clinical and Experimental Research</i> , 1998, 22, 763-765.	1.4	1
75	Oxidative Stress in Nonalcoholic Fatty Liver Disease. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015, , 279-308.	0.4	1
76	Mitochondria in Alcoholic Liver Disease. , 2002, , 361-377.		0
77	GAPDH and Autophagy Preserve Survival after Apoptotic Cytochrome c Release in the Absence of Caspase Activation. <i>Cell</i> , 2007, 130, 385.	13.5	0