

Christopher F Rose

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

4,377
citations

94433

37
h-index

110387

64
g-index

102
all docs

102
docs citations

102
times ranked

3498
citing authors

#	ARTICLE	IF	CITATIONS
1	Manganese deposition in basal ganglia structures results from both portal-systemic shunting and liver dysfunction. <i>Gastroenterology</i> , 1999, 117, 640-644.	1.3	269
2	Hepatic encephalopathy: Novel insights into classification, pathophysiology and therapy. <i>Journal of Hepatology</i> , 2020, 73, 1526-1547.	3.7	219
3	Identifying the direct effects of ammonia on the brain. <i>Metabolic Brain Disease</i> , 2009, 24, 95-102.	2.9	193
4	Astrocyte glutamine synthetase: pivotal in health and disease. <i>Biochemical Society Transactions</i> , 2013, 41, 1518-1524.	3.4	174
5	Decreased glutamate transporter (GLT-1) expression in frontal cortex of rats with acute liver failure. <i>Neuroscience Letters</i> , 1997, 229, 201-203.	2.1	171
6	Ammonia toxicity: from head to toe?. <i>Metabolic Brain Disease</i> , 2017, 32, 529-538.	2.9	166
7	Neuroactive amino acids and glutamate (NMDA) receptors in frontal cortex of rats with experimental acute liver failure. <i>Hepatology</i> , 1996, 24, 908-913.	7.3	162
8	Myosteatosis and sarcopenia are associated with hepatic encephalopathy in patients with cirrhosis. <i>Hepatology International</i> , 2018, 12, 377-386.	4.2	143
9	L-Ornithine-L-aspartate lowers plasma and cerebrospinal fluid ammonia and prevents brain edema in rats with acute liver failure. <i>Hepatology</i> , 1999, 30, 636-640.	7.3	141
10	Mild hypothermia delays the onset of coma and prevents brain edema and extracellular brain glutamate accumulation in rats with acute liver failure. <i>Hepatology</i> , 2000, 31, 872-877.	7.3	116
11	Effects of hypothermia on brain glucose metabolism in acute liver failure: a ¹ H/ ¹³ C-nuclear magnetic resonance study. <i>Gastroenterology</i> , 2003, 125, 815-824.	1.3	114
12	Acute Insult of Ammonia Leads to Calcium-dependent Glutamate Release from Cultured Astrocytes, an Effect of pH. <i>Journal of Biological Chemistry</i> , 2005, 280, 20937-20944.	3.4	100
13	Ammonia-Lowering Strategies for the Treatment of Hepatic Encephalopathy. <i>Clinical Pharmacology and Therapeutics</i> , 2012, 92, 321-331.	4.7	94
14	Effect of albumin dialysis on intracranial pressure increase in pigs with acute liver failure: A randomized study*. <i>Critical Care Medicine</i> , 2006, 34, 158-164.	0.9	81
15	Oxidative stress: a systemic factor implicated in the pathogenesis of hepatic encephalopathy. <i>Metabolic Brain Disease</i> , 2013, 28, 175-178.	2.9	81
16	L-ornithine phenylacetate attenuates increased arterial and extracellular brain ammonia and prevents intracranial hypertension in pigs with acute liver failure. <i>Hepatology</i> , 2009, 50, 165-174.	7.3	78
17	Systemic oxidative stress is implicated in the pathogenesis of brain edema in rats with chronic liver failure. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1228-1235.	2.9	78
18	Pivotal preclinical trial of the spheroid reservoir bioartificial liver. <i>Journal of Hepatology</i> , 2015, 63, 388-398.	3.7	76

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19	L-ornithine-L-aspartate in experimental portal-systemic encephalopathy: therapeutic efficacy and mechanism of action. <i>Metabolic Brain Disease</i> , 1998, 13, 147-157.	2.9	74
20	AST-120 (spherical carbon adsorbent) lowers ammonia levels and attenuates brain edema in bile duct-ligated rats. <i>Hepatology</i> , 2011, 53, 1995-2002.	7.3	74
21	Role of manganese in the pathogenesis of portal-systemic encephalopathy. <i>Metabolic Brain Disease</i> , 1998, 13, 311-317.	2.9	73
22	Effect of portacaval anastomosis on glutamine synthetase protein and gene expression in brain, liver and skeletal muscle. <i>Metabolic Brain Disease</i> , 1999, 14, 273-280.	2.9	73
23	Albumin dialysis: a new therapeutic strategy for intoxication from protein-bound drugs. <i>Intensive Care Medicine</i> , 2004, 30, 496-501.	8.2	69
24	Increased extracellular brain glutamate in acute liver failure: decreased uptake or increased release?. <i>Metabolic Brain Disease</i> , 2002, 17, 251-261.	2.9	65
25	Induction of astrocytic cyclooxygenase-2 in epileptic patients with hippocampal sclerosis. <i>Neurochemistry International</i> , 2003, 42, 299-303.	3.8	65
26	Increased brain lactate is central to the development of brain edema in rats with chronic liver disease. <i>Journal of Hepatology</i> , 2014, 60, 554-560.	3.7	65
27	Protective effect of L-carnitine in ammonia-precipitated encephalopathy in the portacaval shunted rat. <i>Hepatology</i> , 1997, 25, 551-556.	7.3	61
28	Mild hypothermia prevents cerebral edema and CSF lactate accumulation in acute liver failure. <i>Metabolic Brain Disease</i> , 2001, 16, 95-102.	2.9	61
29	Keeping cool in acute liver failure: Rationale for the use of mild hypothermia. <i>Journal of Hepatology</i> , 2005, 43, 1067-1077.	3.7	59
30	Selective alterations of brain osmolytes in acute liver failure: protective effect of mild hypothermia. <i>Brain Research</i> , 2004, 999, 118-123.	2.2	54
31	Direct molecular and spectroscopic evidence for increased ammonia removal capacity of skeletal muscle in acute liver failure. <i>Journal of Hepatology</i> , 2006, 44, 1083-1088.	3.7	52
32	Effect of ammonia on astrocytic glutamate uptake/release mechanisms. <i>Journal of Neurochemistry</i> , 2006, 97, 11-15.	3.9	50
33	Pathogenesis of Hepatic Encephalopathy in Chronic Liver Disease. <i>Journal of Clinical and Experimental Hepatology</i> , 2018, 8, 262-271.	0.9	50
34	Elevated FABP1 serum levels are associated with poorer survival in acetaminophen-induced acute liver failure. <i>Hepatology</i> , 2017, 65, 938-949.	7.3	49
35	Brain edema in acute liver failure and chronic liver disease: Similarities and differences. <i>Neurochemistry International</i> , 2013, 62, 446-457.	3.8	48
36	Limited Capacity for Ammonia Removal by Brain in Chronic Liver Failure: Potential Role of Nitric Oxide. <i>Metabolic Brain Disease</i> , 2005, 20, 275-283.	2.9	41

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37	The hepatokine Tsukushi is released in response to NAFLD and impacts cholesterol homeostasis. JCI Insight, 2019, 4, .	5.0	39
38	Association of reduced extracellular brain ammonia, lactate, and intracranial pressure in pigs with acute liver failure. Hepatology, 2007, 46, 1883-1892.	7.3	38
39	Increased expression of "peripheral-type" benzodiazepine receptors in human temporal lobe epilepsy: implications for PET imaging of hippocampal sclerosis. Metabolic Brain Disease, 2002, 17, 3-11.	2.9	35
40	Mild hypothermia prevents brain edema and attenuates up-regulation of the astrocytic benzodiazepine receptor in experimental acute liver failure. Journal of Hepatology, 2005, 42, 694-699.	3.7	35
41	Interorgan ammonia, glutamate, and glutamine trafficking in pigs with acute liver failure. American Journal of Physiology - Renal Physiology, 2006, 291, G373-G381.	3.4	34
42	2021 ISHEN guidelines on animal models of hepatic encephalopathy. Liver International, 2021, 41, 1474-1488.	3.9	34
43	Is minimal hepatic encephalopathy completely reversible following liver transplantation?. Liver Transplantation, 2004, 10, 84-87.	2.4	33
44	The bile duct ligated rat: A relevant model to study muscle mass loss in cirrhosis. Metabolic Brain Disease, 2017, 32, 513-518.	2.9	30
45	Hypothermia in Acute Liver Failure. Metabolic Brain Disease, 2004, 19, 215-221.	2.9	27
46	Assessment of the spectrum of hepatic encephalopathy: A multicenter study. Liver Transplantation, 2018, 24, 587-594.	2.4	26
47	Systemic and regional haemodynamics in pigs with acute liver failure and the effect of albumin dialysis. Scandinavian Journal of Gastroenterology, 2006, 41, 1350-1360.	1.5	25
48	Elevated cerebral lactate: Implications in the pathogenesis of hepatic encephalopathy. Metabolic Brain Disease, 2014, 29, 919-925.	2.9	25
49	Brain edema: a valid endpoint for measuring hepatic encephalopathy?. Metabolic Brain Disease, 2016, 31, 1249-1258.	2.9	25
50	Liposome-supported Peritoneal Dialysis for the Treatment of Hyperammonemia-associated Encephalopathy. Advanced Functional Materials, 2016, 26, 8382-8389.	14.9	24
51	A novel microRNA-based prognostic model outperforms standard prognostic models in patients with acetaminophen-induced acute liver failure. Journal of Hepatology, 2021, 75, 424-434.	3.7	23
52	Heretical thoughts into hepatic encephalopathy. Journal of Hepatology, 2022, 77, 539-548.	3.7	23
53	An Investigation of PS-PEO Polymersomes for the Oral Treatment and Diagnosis of Hyperammonemia. Small, 2019, 15, e1902347.	10.0	22
54	Evidence for altered central noradrenergic function in experimental acute liver failure in the rat. Hepatology, 1998, 27, 362-368.	7.3	21

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55	Enoxaparin does not ameliorate liver fibrosis or portal hypertension in rats with advanced cirrhosis. <i>Liver International</i> , 2018, 38, 102-112.	3.9	21
56	Hepatic Encephalopathy: From Metabolic to Neurodegenerative. <i>Neurochemical Research</i> , 2021, 46, 2612-2625.	3.3	21
57	Loss of noradrenaline transporter sites in frontal cortex of rats with acute (ischemic) liver failure. <i>Neurochemistry International</i> , 2001, 38, 25-30.	3.8	19
58	Increase brain lactate in hepatic encephalopathy: Cause or consequence?. <i>Neurochemistry International</i> , 2010, 57, 389-394.	3.8	19
59	L-Ornithine phenylacetate reduces ammonia in pigs with acute liver failure through phenylacetylglutamine formation: a novel ammonia-lowering pathway. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G1024-G1031.	3.4	19
60	The Hepatokine TSK does not affect brown fat thermogenic capacity, body weight gain, and glucose homeostasis. <i>Molecular Metabolism</i> , 2019, 30, 184-191.	6.5	19
61	Mild hypothermia in the prevention of brain edema in acute liver failure: mechanisms and clinical prospects. <i>Metabolic Brain Disease</i> , 2002, 17, 445-451.	2.9	18
62	Nitric oxide and L-arginine metabolism in a devascularized porcine model of acute liver failure. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, G435-G441.	3.4	17
63	Neuropathological changes in the brain of pigs with acute liver failure. <i>Scandinavian Journal of Gastroenterology</i> , 2010, 45, 935-943.	1.5	16
64	Induction of systemic oxidative stress leads to brain oedema in portacaval shunted rats. <i>Liver International</i> , 2014, 34, 1322-1329.	3.9	16
65	Novel insights into ammonia-mediated neurotoxicity pointing to potential new therapeutic strategies. <i>Hepatology</i> , 2014, 60, 1101-1103.	7.3	15
66	Portacaval anastomosis-induced hyperammonemia does not lead to oxidative stress. <i>Metabolic Brain Disease</i> , 2010, 25, 11-15.	2.9	11
67	Progressive resistance training prevents loss of muscle mass and strength in bile duct-ligated rats. <i>Liver International</i> , 2019, 39, 676-683.	3.9	10
68	Bile duct ligation renders the brain susceptible to hypotension-induced neuronal degeneration: Implications of ammonia. <i>Journal of Neurochemistry</i> , 2021, 157, 561-573.	3.9	10
69	Genetically engineered <i>E. coli</i> Nissle attenuates hyperammonemia and prevents memory impairment in bile duct ligated rats. <i>Liver International</i> , 2021, 41, 1020-1032.	3.9	10
70	Amino acids, ammonia, and hepatic encephalopathy. <i>Analytical Biochemistry</i> , 2022, 649, 114696.	2.4	10
71	Targeting the muscle for the treatment and prevention of hepatic encephalopathy. <i>Journal of Hepatology</i> , 2016, 65, 876-878.	3.7	8
72	Glycine and hyperammonemia: potential target for the treatment of hepatic encephalopathy. <i>Metabolic Brain Disease</i> , 2016, 31, 1269-1273.	2.9	8

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73	Elevated Serum Liver-Type Fatty Acid Binding Protein Levels in Non-acetaminophen Acute Liver Failure Patients with Organ Dysfunction. <i>Digestive Diseases and Sciences</i> , 2021, 66, 273-283.	2.3	8
74	Impact of uric acid on liver injury and intestinal permeability following resuscitated hemorrhagic shock in rats. <i>Journal of Trauma and Acute Care Surgery</i> , 2020, 89, 1076-1084.	2.1	7
75	Ammonia: more than a neurotoxin?. <i>Liver International</i> , 2014, 34, 649-651.	3.9	6
76	Contractile response of femoral arteries in pigs with acute liver failure. <i>Scandinavian Journal of Gastroenterology</i> , 2004, 39, 1000-1004.	1.5	4
77	The association between FABP7 serum levels with survival and neurological complications in acetaminophen-induced acute liver failure: a nested case-control study. <i>Annals of Intensive Care</i> , 2017, 7, 99.	4.6	4
78	Ammonia: This is not the end but rather the end of the beginning. <i>Journal of Hepatology</i> , 2018, 68, 1110-1113.	3.7	4
79	Erroneous Ammonia Measurement is Not Synonymous With a Lack of Efficacy of Ammonia-Lowering Therapies in Hepatic Encephalopathy. <i>Clinical Gastroenterology and Hepatology</i> , 2021, 19, 2456-2457.	4.4	4
80	Reply to: "Pivotal preclinical trial of the spheroid reservoir bioartificial liver". <i>Journal of Hepatology</i> , 2015, 63, 1052-1053.	3.7	3
81	Pulmonary vascular clearance of harmful endogenous macromolecules in a porcine model of acute liver failure. <i>Annals of Hepatology</i> , 2016, 15, 427-435.	1.5	3
82	Judging the value of ammonia measurement on lactulose dosing: Apples and oranges?. <i>Canadian Liver Journal</i> , 2021, 4, 72-74.	0.9	2
83	The Portacaval-Shunted Rat. <i>Alcoholism: Clinical and Experimental Research</i> , 1997, 21, 305.	2.4	2
84	REPLY:. <i>Hepatology</i> , 2017, 66, 670-671.	7.3	1
85	What's new in our understanding of the pathogenesis of hepatic encephalopathy?. <i>Clinical Liver Disease</i> , 2017, 10, 29-31.	2.1	1
86	Hepatic Encephalopathy, Sarcopenia, and Frailty. , 2020, , 247-263.		1
87	Renal dysfunction independently predicts muscle mass loss in patients following liver transplantation. <i>Canadian Liver Journal</i> , 0, , .	0.9	1
88	Significant advances towards a reproducible, clinically relevant large animal model of acetaminophen-induced acute liver failure. <i>Liver International</i> , 2013, 33, 499-500.	3.9	0
89	Mathematical models and hepatology; oil and vinegar?. <i>Journal of Hepatology</i> , 2016, 64, 768-769.	3.7	0
90	Hepatic Encephalopathy: Pathophysiology"Brain. , 2018, , 15-29.		0

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91	SAT-015-Sarcopenia is associated with a worst prognosis in cirrhotic patients in the context of liver transplantation. <i>Journal of Hepatology</i> , 2019, 70, e632.	3.7	0
92	PS-097-The association between liver type fatty acid binding protein serum levels and clinical outcomes in patients with non-acetaminophen acute liver failure: A cohort study. <i>Journal of Hepatology</i> , 2019, 70, e62.	3.7	0
93	P: 83-Obesity Accelerates and Exacerbates Neurological Impairments Associated to Hepatic Encephalopathy in Chronic Liver Disease. <i>American Journal of Gastroenterology</i> , 2019, 114, S40-S40.	0.4	0
94	P: 82-Genetically Engineered E. coli Nissle Attenuates Hyperammonemia and Improves Memory in an Experimental Model of Cirrhosis and Hepatic Encephalopathy. <i>American Journal of Gastroenterology</i> , 2019, 114, S39-S40.	0.4	0
95	P: 4- Uncovering Sex-based Differences in a Rat Model of Chronic Liver Disease and Hepatic Encephalopathy. <i>American Journal of Gastroenterology</i> , 2019, 114, S2-S2.	0.4	0
96	P: 69- Sarcopenia Pre- and Post-liver Transplantation: Implication for Hepatic Encephalopathy. <i>American Journal of Gastroenterology</i> , 2019, 114, S36-S36.	0.4	0
97	P: 50- Developing a New Animal Model of Episodic Hepatic Encephalopathy. <i>American Journal of Gastroenterology</i> , 2019, 114, S25-S26.	0.4	0
98	Plasmatic osmolality and hepatic encephalopathy: A new player on the field?. <i>Liver International</i> , 2020, 40, 1826-1828.	3.9	0
99	Sex is associated with differences in oxidative stress and susceptibility to severe hepatic encephalopathy in bile-duct ligated rats. <i>Journal of Neurochemistry</i> , 0, , .	3.9	0