

Ronald G Tompkins

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

5,422

citations

28

h-index

67

g-index

67

ext. papers

5,951

ext. citations

7.1

avg, IF

4.88

L-index

#	Paper	IF	Citations
66	A network-based analysis of systemic inflammation in humans. <i>Nature</i> , 2005 , 437, 1032-7	50.4	1236
65	Objective estimates of the probability of death from burn injuries. <i>New England Journal of Medicine</i> , 1998 , 338, 362-6	59.2	1060
64	Hepatocyte function and extracellular matrix geometry: long-term culture in a sandwich configuration. <i>FASEB Journal</i> , 1989 , 3, 174-7	0.9	658
63	Long-term in vitro function of adult hepatocytes in a collagen sandwich configuration. <i>Biotechnology Progress</i> , 1991 , 7, 237-45	2.8	594
62	The metabolic stress response to burn trauma: current understanding and therapies. <i>Lancet, The</i> , 2016 , 388, 1417-1426	40	138
61	Inhibition of Hif1 α prevents both trauma-induced and genetic heterotopic ossification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E338-47	11.5	130
60	Oxygen uptake rates in cultured rat hepatocytes. <i>Biotechnology and Bioengineering</i> , 1992 , 40, 1286-91	4.9	123
59	Treatment of heterotopic ossification through remote ATP hydrolysis. <i>Science Translational Medicine</i> , 2014 , 6, 255ra132	17.5	95
58	Assessment of artificial liver support technology. <i>Cell Transplantation</i> , 1992 , 1, 323-41	4	95
57	A device to measure the oxygen uptake rate of attached cells: importance in bioartificial organ design. <i>Cell Transplantation</i> , 1994 , 3, 515-27	4	93
56	Oxygen is a factor determining in vitro tissue assembly: Effects on attachment and spreading of hepatocytes. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 654-60	4.9	82
55	Mice are not men. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E345	11.5	78
54	A stable long-term hepatocyte culture system for studies of physiologic processes: cytokine stimulation of the acute phase response in rat and human hepatocytes. <i>Biotechnology Progress</i> , 1992 , 8, 219-25	2.8	73
53	Benchmarking outcomes in the critically injured burn patient. <i>Annals of Surgery</i> , 2014 , 259, 833-41	7.8	62
52	Early elevation in random plasma IL-6 after severe injury is associated with development of organ failure. <i>Shock</i> , 2010 , 34, 346-51	3.4	61
51	Intrahepatic amino acid and glucose metabolism in a D-galactosamine-induced rat liver failure model. <i>Hepatology</i> , 2001 , 34, 360-71	11.2	55
50	Long-term functional recovery of hepatocytes after cryopreservation in a three-dimensional culture configuration. <i>Cell Transplantation</i> , 1992 , 1, 281-92	4	54

49	Transport phenomena during freezing of isolated hepatocytes. <i>AIChE Journal</i> , 1992 , 38, 1512-1522	3.6	52
48	Standard operating procedures for the clinical management of patients enrolled in a prospective study of Inflammation and the Host Response to Thermal Injury. <i>Journal of Burn Care and Research</i> , 2007 , 28, 222-30	0.8	46
47	Antibody-targeted photolysis of bacteria in vivo. <i>Nature Biotechnology</i> , 1994 , 12, 703-6	44.5	41
46	Penetration of tumor tissue by antibodies and other immunoproteins. <i>Annals of the New York Academy of Sciences</i> , 1991 , 618, 367-82	6.5	37
45	A fulminant hepatic failure model in the rat: involvement of interleukin-1beta and tumor necrosis factor-alpha. <i>Digestive Diseases and Sciences</i> , 2001 , 46, 1700-8	4	36
44	Optimization of hepatocyte attachment to microcarriers: Importance of oxygen. <i>Biotechnology and Bioengineering</i> , 1993 , 42, 579-88	4.9	34
43	Survival from burns in the new millennium: 70 years' experience from a single institution. <i>Annals of Surgery</i> , 2015 , 261, 263-8	7.8	33
42	Enzymatic function of alginate immobilized rat hepatocytes. <i>Biotechnology and Bioengineering</i> , 1988 , 31, 11-8	4.9	30
41	In vitro and in vivo evaluation of albumin synthesis rate of porcine hepatocytes in a flat-plate bioreactor. <i>Artificial Organs</i> , 2001 , 25, 571-8	2.6	29
40	Young age is not a predictor of mortality in burns. <i>Pediatric Critical Care Medicine</i> , 2001 , 2, 223-224	3	28
39	Antibody-targeted photolysis: in vitro immunological, photophysical, and cytotoxic properties of monoclonal antibody-dextran-Sn(IV) chlorin e6 immunoconjugates. <i>Biotechnology Progress</i> , 1992 , 8, 30-9 ^{2.8}		28
38	The importance of proline on long-term hepatocyte function in a collagen gel sandwich configuration: regulation of protein secretion. <i>Biotechnology and Bioengineering</i> , 1992 , 40, 298-305	4.9	27
37	Strategic Targeting of Multiple BMP Receptors Prevents Trauma-Induced Heterotopic Ossification. <i>Molecular Therapy</i> , 2017 , 25, 1974-1987	11.7	26
36	Antibody-targeted photolysis. Bacteriocidal effects of Sn (IV) chlorin e6-dextran-monoclonal antibody conjugates. <i>Annals of the New York Academy of Sciences</i> , 1991 , 618, 383-93	6.5	26
35	Prediction of multiple infections after severe burn trauma: a prospective cohort study. <i>Annals of Surgery</i> , 2015 , 261, 781-92	7.8	23
34	TNF- α /IL-10 Ratio Correlates with Burn Severity and May Serve as a Risk Predictor of Increased Susceptibility to Infections. <i>Frontiers in Public Health</i> , 2016 , 4, 216	6	21
33	Do standard burn mortality formulae work on a population of severely burned children and adults?. <i>Burns</i> , 2015 , 41, 935-45	2.3	20
32	Early leukocyte gene expression associated with age, burn size, and inhalation injury in severely burned adults. <i>Journal of Trauma and Acute Care Surgery</i> , 2016 , 80, 250-7	3.3	17

31	On the horizon: research priorities in burns for the next decade. <i>Surgical Clinics of North America</i> , 2014 , 94, 917-30	4	15
30	Technical Advance: Changes in neutrophil migration patterns upon contact with platelets in a microfluidic assay. <i>Journal of Leukocyte Biology</i> , 2017 , 101, 797-806	6.5	15
29	Genome-wide transcriptome analysis of 150 cell samples. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 99-107	3.7	14
28	In vivo high-resolution magic angle spinning proton NMR spectroscopy of <i>Drosophila melanogaster</i> flies as a model system to investigate mitochondrial dysfunction in <i>Drosophila</i> GST2 mutants. <i>International Journal of Molecular Medicine</i> , 2014 , 34, 327-33	4.4	13
27	Role of protein farnesylation in burn-induced metabolic derangements and insulin resistance in mouse skeletal muscle. <i>PLoS ONE</i> , 2015 , 10, e0116633	3.7	13
26	Detecting differential protein expression in large-scale population proteomics. <i>Bioinformatics</i> , 2014 , 30, 2741-6	7.2	13
25	Rapid quantitation of recombinant retroviruses. <i>Biotechnology Progress</i> , 1994 , 10, 441-6	2.8	12
24	Integration of Architectural and Cytologic Driven Image Algorithms for Prostate Adenocarcinoma Identification. <i>Analytical Cellular Pathology</i> , 2012 , 35, 251-265	3.4	9
23	The Effect of Facial Burns on Long-Term Outcomes in Young Adults: A 5-Year Study. <i>Journal of Burn Care and Research</i> , 2018 , 39, 497-506	0.8	8
22	Inertial focusing cytometer with integrated optics for particle characterization. <i>Technology</i> , 2013 , 1, 27-36		8
21	Local and Systemic Changes Associated with Long-term, Percutaneous, Static Implantation of Titanium Alloys in Rhesus Macaques (). <i>Comparative Medicine</i> , 2017 , 67, 165-175	1.6	8
20	KERIS: kaleidoscope of gene responses to inflammation between species. <i>Nucleic Acids Research</i> , 2017 , 45, D908-D914	20.1	7
19	Dynamics of transcriptional and translational processes in hepatocytes cultured in a collagen sandwich. <i>Biotechnology and Bioengineering</i> , 1993 , 41, 593-8	4.9	7
18	Membrane potential-dependent uptake of 18F-triphenylphosphonium--a new voltage sensor as an imaging agent for detecting burn-induced apoptosis. <i>Journal of Surgical Research</i> , 2014 , 188, 473-9	2.5	6
17	In vivo high-resolution magic angle spinning magnetic and electron paramagnetic resonance spectroscopic analysis of mitochondria-targeted peptide in <i>Drosophila melanogaster</i> with trauma-induced thoracic injury. <i>International Journal of Molecular Medicine</i> , 2016 , 37, 299-308	4.4	6
16	The burn outcome questionnaires: Patient and family reported outcome metrics for children of all ages. <i>Burns</i> , 2016 , 42, 1144-1145	2.3	5
15	Megakaryocytes contain extranuclear histones and may be a source of platelet-associated histones during sepsis. <i>Scientific Reports</i> , 2020 , 10, 4621	4.9	4
14	Synthesis of [1,2-13C2] gly and [2,2-2H2] gly glutathione. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1997 , 39, 205-213	1.9	4

13	Denver and Marshall scores successfully predict susceptibility to multiple independent infections in trauma patients. <i>PLoS ONE</i> , 2020 , 15, e0232175	3.7	3
12	A New Test for the Detection of Direct Oral Anticoagulants (Rivaroxaban and Apixaban) in the Emergency Room Setting 2019 , 1, e0024		3
11	Genome-wide comparisons of gene expression in adult versus elderly burn patients. <i>PLoS ONE</i> , 2019 , 14, e0226425	3.7	2
10	Transcriptomic responses from improved murine sepsis models can better mimic human surgical sepsis. <i>FASEB Journal</i> , 2021 , 35, e21156	0.9	2
9	Associations between clinical characteristics and the development of multiple organ failure after severe burns in adult patients. <i>Burns</i> , 2019 , 45, 1775-1782	2.3	1
8	Burn injury differentially alters whole-blood and organ glutathione synthesis rates: An experimental model. <i>Burns and Trauma</i> , 2013 , 1, 87-94		1
7	Engineering organ perfusion protocols: NMR analysis of hepatocyte isolation from perfused rat liver. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 661-72	4.9	1
6	Coagulation Biomarkers in Healthy Chinese-Origin Rhesus Macaques (<i>Macaca mulatta</i>). <i>Journal of the American Association for Laboratory Animal Science</i> , 2016 , 55, 252-9	1.3	1
5	Multi-Biomarker Prediction Models for Multiple Infection Episodes Following Blunt Trauma. <i>IScience</i> , 2020 , 23, 101659	6.1	0
4	Adult-onset, chronic, cyclic thrombocytopenia in a Rhesus macaque (<i>Macaca mulatta</i>) after dengue virus vaccination and viral challenge. <i>Veterinary Clinical Pathology</i> , 2017 , 46, 238-247	1	
3	Measuring glutathione fractional synthesis in vivo with deuterated water. <i>FASEB Journal</i> , 2006 , 20, A1470.9		
2	Regulation of IGF-I signal pathways by androgen in skeletal muscle of glucocorticoid-treated rats. <i>FASEB Journal</i> , 2007 , 21, A336	0.9	
1	Imaging C-Fos Gene Expression in Burns Using Lipid Coated Spion Nanoparticles. <i>Advances in Molecular Imaging</i> , 2012 , 2, 31-37	0.3	