Yaakov Nahmias

List of Publications by Year
in descending order

79	7,034	71061 41	79644 73
papers	citations	h-index	g-index

81	81	81	11055
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organ reengineering through development of a transplantable recellularized liver graft using decellularized liver matrix. Nature Medicine, 2010, 16, 814-820.	15.2	1,215
2	Glycolysis-Mediated Changes in Acetyl-CoA and Histone Acetylation Control the Early Differentiation of Embryonic Stem Cells. Cell Metabolism, 2015, 21, 392-402.	7.2	541
3	Mesenchymal stem cell-derived molecules directly modulate hepatocellular death and regenerationin vitroandin vivo. Hepatology, 2008, 47, 1634-1643.	3.6	461
4	Laser-guided direct writing for three-dimensional tissue engineering. Biotechnology and Bioengineering, 2005, 92, 129-136.	1.7	249
5	Real-time monitoring of metabolic function in liver-on-chip microdevices tracks the dynamics of mitochondrial dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2231-40.	3.3	238
6	Apolipoprotein B-dependent hepatitis C virus secretion is inhibited by the grapefruit flavonoid naringenin. Hepatology, 2008, 47, 1437-1445.	3.6	226
7	Multiple effects of silymarin on the hepatitis C virus lifecycle. Hepatology, 2010, 51, 1912-1921.	3.6	191
8	Oxygen-mediated enhancement of primary hepatocyte metabolism, functional polarization, gene expression, and drug clearance. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15714-15719.	3.3	190
9	Transcriptional Regulation of Human and Rat Hepatic Lipid Metabolism by the Grapefruit Flavonoid Naringenin: Role of PPARÎ±, PPARÎ³ and LXRÎ±. PLoS ONE, 2010, 5, e12399.	1.1	188
10	Confinement to Organelle-Associated Inclusion Structures Mediates Asymmetric Inheritance of Aggregated Protein in Budding Yeast. Cell Reports, 2012, 2, 738-747.	2.9	173
11	An orally delivered small-molecule formulation with antiangiogenic and anticancer activity. Nature Biotechnology, 2008, 26, 799-807.	9.4	165
12	Self-assembling elastin-like peptides growth factor chimeric nanoparticles for the treatment of chronic wounds. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1034-1039.	3.3	163
13	CHOP is a critical regulator of acetaminophen-induced hepatotoxicity. Journal of Hepatology, 2013, 59, 495-503.	1.8	155
14	A Tetraploid Intermediate Precedes Aneuploid Formation in Yeasts Exposed to Fluconazole. PLoS Biology, 2014, 12, e1001815.	2.6	147
15	Reactive Bone Marrow Stromal Cells Attenuate Systemic Inflammation via sTNFR1. Molecular Therapy, 2010, 18, 1857-1864.	3.7	144
16	Enhancement of Naringenin Bioavailability by Complexation with Hydroxypropoyl-Î²-Cyclodextrin. PLoS ONE, 2011, 6, e18033.	1.1	137
17	Long-term culture and expansion of primary human hepatocytes. Nature Biotechnology, 2015, 33, 1264-1271.	9.4	122
18	Naringenin inhibits the assembly and long-term production of infectious hepatitis C virus particles through a PPAR-mediated mechanism. Journal of Hepatology, 2011, 55, 963-971.	1.8	121

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19	Micropatterning of living cells by laser-guided direct writing: application to fabrication of hepaticâ€“endothelial sinusoid-like structures. Nature Protocols, 2006, 1, 2288-2296.	5.5	117
20	Efficient Recombinase-Mediated Cassette Exchange in hPSCs to Study the Hepatocyte Lineage Reveals AAVS1 Locus-Mediated Transgene Inhibition. Stem Cell Reports, 2015, 5, 918-931.	2.3	115
21	HCV Causes Chronic Endoplasmic Reticulum Stress Leading to Adaptation and Interference with the Unfolded Protein Response. PLoS ONE, 2011, 6, e24660.	1.1	96
22	Human pluripotent stem cell-derived hepatocytes support complete replication of hepatitis C virus. Journal of Hepatology, 2012, 57, 246-251.	1.8	90
23	Long-Term Culture and Coculture of Primary Rat and Human Hepatocytes. Methods in Molecular Biology, 2012, 945, 287-302.	0.4	87
24	Integration of Technologies for Hepatic Tissue Engineering. , 2007, 103, 309-329.		82
25	Recovery of Warm Ischemic Rat Liver Grafts by Normothermic Extracorporeal Perfusion. Transplantation, 2009, 87, 170-177.	0.5	82
26	Homogeneous differentiation of hepatocyteâ€like cells from embryonic stem cells: applications for the treatment of liver failure. FASEB Journal, 2008, 22, 898-909.	0.2	79
27	Microbialâ€derived lithocholic acid and vitamin K2 drive the metabolic maturation of pluripotent stem cellsâ€“derived and fetal hepatocytes. Hepatology, 2015, 62, 265-278.	3.6	76
28	Endothelium-Mediated Hepatocyte Recruitment in the Establishment of Liver-like TissueIn Vitro. Tissue Engineering, 2006, 12, 1627-1638.	4.9	75
29	Challenges and Opportunities in the Design of Liver-on-Chip Microdevices. Annual Review of Biomedical Engineering, 2019, 21, 219-239.	5.7	75
30	A novel formulation of oxygenâ€carrying matrix enhances liverâ€specific function of cultured hepatocytes. FASEB Journal, 2006, 20, 2531-2533.	0.2	74
31	Liver endothelial cells promote LDL-R expression and the uptake of HCV-like particles in primary rat and human hepatocytes. Hepatology, 2006, 43, 257-265.	3.6	68
32	Modulation of Renal GLUT2 by the Cannabinoid-1 Receptor: Implications for the Treatment of Diabetic Nephropathy. Journal of the American Society of Nephrology: JASN, 2018, 29, 434-448.	3.0	57
33	Real-time monitoring of oxygen uptake in hepatic bioreactor shows CYP450-independent mitochondrial toxicity of acetaminophen and amiodarone. Archives of Toxicology, 2016, 90, 1181-1191.	1.9	54
34	Effect of SARS-CoV-2 proteins on vascular permeability. ELife, 2021, 10, .	2.8	53
35	Role for TBC1D20 and Rab1 in Hepatitis C Virus Replication via Interaction with Lipid Droplet-Bound Nonstructural Protein 5A. Journal of Virology, 2012, 86, 6491-6502.	1.5	51
36	Mechanism and reversal of drug-induced nephrotoxicity on a chip. Science Translational Medicine, 2021, 13, .	5.8	51

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37	Flavonoids as dietary regulators of nuclear receptor activity. Food and Function, 2013, 4, 831.	2.1	49
38	Analysis of radiation forces in laser trapping and laser-guided direct writing applications. IEEE Journal of Quantum Electronics, 2002, 38, 131-141.	1.0	48
39	Design and Application of Microfluidic Systems for In Vitro Pharmacokinetic Evaluation of Drug Candidates. Current Drug Metabolism, 2009, 10, 1192-1199.	0.7	48
40	The transcription factor Cabut coordinates energy metabolism and the circadian clock in response to sugar sensing. EMBO Journal, 2015, 34, 1538-1553.	3.5	48
41	Dimensionless parameters for the design of optical traps and laser guidance systems. Applied Optics, 2004, 43, 3999.	2.1	47
42	Cell Patterning on Biological Gels via Cell Spraying through a Mask. Tissue Engineering, 2005, 11, 701-708.	4.9	47
43	Engineering of an Hepatic Organoid to Develop Liver Assist Devices. Cell Transplantation, 2010, 19, 815-822.	1.2	45
44	Nuclear receptors control pro-viral and antiviral metabolic responses to hepatitis C virus infection. Nature Chemical Biology, 2016, 12, 1037-1045.	3.9	45
45	Live imaging of GLUT2 glucose-dependent trafficking and its inhibition in polarized epithelial cysts. Open Biology, 2014, 4, 140091.	1.5	44
46	Amino acidâ€mediated heterotypic interaction governs performance of a hepatic tissue model. FASEB Journal, 2009, 23, 2288-2298.	0.2	41
47	Biocatalytic reversible control of the stiffness of DNA-modified responsive hydrogels: applications in shape-memory, self-healing and autonomous controlled release of insulin. Chemical Science, 2020, 11, 4516-4524.	3.7	34
48	Serum-Free Medium and Mesenchymal Stromal Cells Enhance Functionality and Stabilize Integrity of Rat Hepatocyte Spheroids. Cell Transplantation, 2013, 22, 299-308.	1.2	30
49	Microphysiological flux balance platform unravels the dynamics of drug induced steatosis. Lab on A Chip, 2018, 18, 2510-2522.	3.1	29
50	Temporal profiling of redox-dependent heterogeneity in single cells. ELife, 2018, 7, .	2.8	27
51	In situ metabolic flux analysis to quantify the liver metabolic response to experimental burn injury. Biotechnology and Bioengineering, 2011, 108, 839-852.	1.7	25
52	Activin Alters the Kinetics of Endoderm Induction in Embryonic Stem Cells Cultured on Collagen Gels. Stem Cells, 2008, 26, 474-484.	1.4	23
53	Non-dimensional analysis of retinal microaneurysms: critical threshold for treatment. Integrative Biology (United Kingdom), 2013, 5, 474.	0.6	21
54	Circadian Effects of Drug Responses. Annual Review of Biomedical Engineering, 2021, 23, 203-224.	5.7	17

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55	Microfluidic Enrichment of Mouse Epidermal Stem Cells and Validation of Stem Cell Proliferation In Vitro. Tissue Engineering - Part C: Methods, 2013, 19, 765-773.	1.1	15
56	Constitutional Dynamic Networks-Guided Synthesis of Programmed â€œGenesâ€ Transcription of mRNAs, and Translation of Proteins. Journal of the American Chemical Society, 2020, 142, 21460-21468.	6.6	14
57	Human Immune Reactivity against Liver Sinusoidal Endothelial Cells from GalTÎ±(1,3)GalT-Deficient Pigs. Cell Transplantation, 2010, 19, 783-789.	1.2	12
58	Microfluidic Isolation of CD34-Positive Skin Cells Enables Regeneration of Hair and Sebaceous Glands In Vivo. Stem Cells Translational Medicine, 2014, 3, 1354-1362.	1.6	12
59	Microfluidic Concentric Gradient Generator Design for High-Throughput Cell-Based Studies. Frontiers in Bioengineering and Biotechnology, 2017, 5, 21.	2.0	12
60	Coculture and Long-Term Maintenance of Hepatocytes. Methods in Molecular Biology, 2015, 1250, 161-173.	0.4	10
61	Propofol induces ERK-dependant expression of c-Fos and Egr-1 in neuronal cells. NeuroReport, 2009, 20, 657-662.	0.6	9
62	Selective targeting of pigmented retinal pigment epithelial (RPE) cells by a single pulsed laser irradiation: an in vitro study. Optics Express, 2008, 16, 10518.	1.7	8
63	Low Power Laser Irradiation Stimulates the Proliferation of Adult Human Retinal Pigment Epithelial Cells in Culture. Cellular and Molecular Bioengineering, 2009, 2, 87-103.	1.0	8
64	Microprocessor-based integration of microfluidic control for the implementation of automated sensor monitoring and multithreaded optimization algorithms. Biomedical Microdevices, 2015, 17, 82.	1.4	8
65	Live cell imaging and analysis of lipid droplets biogenesis in hepatatis C virus infected cells. Methods, 2017, 127, 30-36.	1.9	8
66	High-Reynolds Microfluidic Sorting of Large Yeast Populations. Scientific Reports, 2018, 8, 13739.	1.6	8
67	Opposing shear-induced forces dominate inertial focusing in curved channels and high Reynolds numbers. Applied Physics Letters, 2015, 107, 193507.	1.5	7
68	Frame rate free image velocimetry for microfluidic devices. Applied Physics Letters, 2013, 103, 63507.	1.5	5
69	Development of Three-Dimensional Streamline Image Velocimetry Using Superimposed Delaunay Triangulation and Geometrical Fitting. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	4
70	Tracking GLUT2 Translocation by Live-Cell Imaging. Methods in Molecular Biology, 2018, 1713, 241-254.	0.4	4
71	In Vitro Cell Culture Models of Hepatic Steatosis. Methods in Molecular Biology, 2015, 1250, 377-390.	0.4	4
72	Tissue Engineering Application in General Surgery. , 2009, , 855-867.		2

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73	One step antibody-mediated isolation and patterning of multiple cell types in microfluidic devices. Biomicrofluidics, 2016, 10, 024112.	1.2	1
74	Neuregulin 1 discovered as a cleavage target for the HCV NS3/4A protease by a microfluidic membrane protein array. New Biotechnology, 2018, 45, 113-122.	2.4	1
75	Delivering Advanced Methods in Mathematical Programming to Students of All Disciplines Using Abstraction, Modularity and Open-Ended Assignments. Eurasia Journal of Mathematics, Science and Technology Education, 2015, 11, .	0.7	1
76	Reply:. Hepatology, 2008, 47, 2142-2143.	3.6	0
77	124 HEPATOCYTES DERIVED FROM HUMAN PLURIPOTENT STEM CELLS PERMIT COMPLETE REPLICATION OF THE HEPATITIS C VIRUS. Journal of Hepatology, 2012, 56, S54-S55.	1.8	0
78	Erratum to â€œHuman pluripotent stem cell-derived hepatocytes support complete replication of hepatitis C virusâ€•[J Hepatol 2012;57:246â€“251]. Journal of Hepatology, 2013, 58, 199-200.	1.8	0
79	When Every Second Counts: Novel Device to Shorten Chest Tube Insertion Time in a Pre-hospital Setting. Pulmonary Therapy, 2016, 2, 215-219.	1.1	0