

Yaakov Nahmias

List of Publications by Year in descending order

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79
papers

7,034
citations

71061

41
h-index

79644

73
g-index

81
all docs

81
docs citations

81
times ranked

11055
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism and reversal of drug-induced nephrotoxicity on a chip. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	51
2	Circadian Effects of Drug Responses. <i>Annual Review of Biomedical Engineering</i> , 2021, 23, 203-224.	5.7	17
3	Effect of SARS-CoV-2 proteins on vascular permeability. <i>ELife</i> , 2021, 10, .	2.8	53
4	Constitutional Dynamic Networks-Guided Synthesis of Programmed "Genes", Transcription of mRNAs, and Translation of Proteins. <i>Journal of the American Chemical Society</i> , 2020, 142, 21460-21468.	6.6	14
5	Biocatalytic reversible control of the stiffness of DNA-modified responsive hydrogels: applications in shape-memory, self-healing and autonomous controlled release of insulin. <i>Chemical Science</i> , 2020, 11, 4516-4524.	3.7	34
6	Challenges and Opportunities in the Design of Liver-on-Chip Microdevices. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 219-239.	5.7	75
7	Neuregulin 1 discovered as a cleavage target for the HCV NS3/4A protease by a microfluidic membrane protein array. <i>New Biotechnology</i> , 2018, 45, 113-122.	2.4	1
8	Modulation of Renal GLUT2 by the Cannabinoid-1 Receptor: Implications for the Treatment of Diabetic Nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 434-448.	3.0	57
9	Tracking GLUT2 Translocation by Live-Cell Imaging. <i>Methods in Molecular Biology</i> , 2018, 1713, 241-254.	0.4	4
10	High-Reynolds Microfluidic Sorting of Large Yeast Populations. <i>Scientific Reports</i> , 2018, 8, 13739.	1.6	8
11	Microphysiological flux balance platform unravels the dynamics of drug induced steatosis. <i>Lab on A Chip</i> , 2018, 18, 2510-2522.	3.1	29
12	Temporal profiling of redox-dependent heterogeneity in single cells. <i>ELife</i> , 2018, 7, .	2.8	27
13	Live cell imaging and analysis of lipid droplets biogenesis in hepatitis C virus infected cells. <i>Methods</i> , 2017, 127, 30-36.	1.9	8
14	Microfluidic Concentric Gradient Generator Design for High-Throughput Cell-Based Studies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 21.	2.0	12
15	One step antibody-mediated isolation and patterning of multiple cell types in microfluidic devices. <i>Biomicrofluidics</i> , 2016, 10, 024112.	1.2	1
16	Real-time monitoring of metabolic function in liver-on-chip microdevices tracks the dynamics of mitochondrial dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2231-40.	3.3	238
17	Nuclear receptors control pro-viral and antiviral metabolic responses to hepatitis C virus infection. <i>Nature Chemical Biology</i> , 2016, 12, 1037-1045.	3.9	45
18	When Every Second Counts: Novel Device to Shorten Chest Tube Insertion Time in a Pre-hospital Setting. <i>Pulmonary Therapy</i> , 2016, 2, 215-219.	1.1	0

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19	Development of Three-Dimensional Streamline Image Velocimetry Using Superimposed Delaunay Triangulation and Geometrical Fitting. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	0.8	4
20	Real-time monitoring of oxygen uptake in hepatic bioreactor shows CYP450-independent mitochondrial toxicity of acetaminophen and amiodarone. <i>Archives of Toxicology</i> , 2016, 90, 1181-1191.	1.9	54
21	Efficient Recombinase-Mediated Cassette Exchange in hPSCs to Study the Hepatocyte Lineage Reveals AAVS1 Locus-Mediated Transgene Inhibition. <i>Stem Cell Reports</i> , 2015, 5, 918-931.	2.3	115
22	Opposing shear-induced forces dominate inertial focusing in curved channels and high Reynolds numbers. <i>Applied Physics Letters</i> , 2015, 107, 193507.	1.5	7
23	Microbial-derived lithocholic acid and vitamin K2 drive the metabolic maturation of pluripotent stem cells-derived and fetal hepatocytes. <i>Hepatology</i> , 2015, 62, 265-278.	3.6	76
24	Glycolysis-Mediated Changes in Acetyl-CoA and Histone Acetylation Control the Early Differentiation of Embryonic Stem Cells. <i>Cell Metabolism</i> , 2015, 21, 392-402.	7.2	541
25	The transcription factor Cabut coordinates energy metabolism and the circadian clock in response to sugar sensing. <i>EMBO Journal</i> , 2015, 34, 1538-1553.	3.5	48
26	Long-term culture and expansion of primary human hepatocytes. <i>Nature Biotechnology</i> , 2015, 33, 1264-1271.	9.4	122
27	Microprocessor-based integration of microfluidic control for the implementation of automated sensor monitoring and multithreaded optimization algorithms. <i>Biomedical Microdevices</i> , 2015, 17, 82.	1.4	8
28	Coculture and Long-Term Maintenance of Hepatocytes. <i>Methods in Molecular Biology</i> , 2015, 1250, 161-173.	0.4	10
29	In Vitro Cell Culture Models of Hepatic Steatosis. <i>Methods in Molecular Biology</i> , 2015, 1250, 377-390.	0.4	4
30	Delivering Advanced Methods in Mathematical Programming to Students of All Disciplines Using Abstraction, Modularity and Open-Ended Assignments. <i>Eurasia Journal of Mathematics, Science and Technology Education</i> , 2015, 11, .	0.7	1
31	A Tetraploid Intermediate Precedes Aneuploid Formation in Yeasts Exposed to Fluconazole. <i>PLoS Biology</i> , 2014, 12, e1001815.	2.6	147
32	Microfluidic Isolation of CD34-Positive Skin Cells Enables Regeneration of Hair and Sebaceous Glands In Vivo. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1354-1362.	1.6	12
33	Live imaging of GLUT2 glucose-dependent trafficking and its inhibition in polarized epithelial cysts. <i>Open Biology</i> , 2014, 4, 140091.	1.5	44
34	Erratum to "Human pluripotent stem cell-derived hepatocytes support complete replication of hepatitis C virus" [Hepatology 2012;57:246-251]. <i>Journal of Hepatology</i> , 2013, 58, 199-200.	1.8	0
35	Non-dimensional analysis of retinal microaneurysms: critical threshold for treatment. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 474.	0.6	21
36	Microfluidic Enrichment of Mouse Epidermal Stem Cells and Validation of Stem Cell Proliferation In Vitro. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 765-773.	1.1	15

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37	Flavonoids as dietary regulators of nuclear receptor activity. <i>Food and Function</i> , 2013, 4, 831.	2.1	49
38	CHOP is a critical regulator of acetaminophen-induced hepatotoxicity. <i>Journal of Hepatology</i> , 2013, 59, 495-503.	1.8	155
39	Frame rate free image velocimetry for microfluidic devices. <i>Applied Physics Letters</i> , 2013, 103, 63507.	1.5	5
40	Serum-Free Medium and Mesenchymal Stromal Cells Enhance Functionality and Stabilize Integrity of Rat Hepatocyte Spheroids. <i>Cell Transplantation</i> , 2013, 22, 299-308.	1.2	30
41	Role for TBC1D20 and Rab1 in Hepatitis C Virus Replication via Interaction with Lipid Droplet-Bound Nonstructural Protein 5A. <i>Journal of Virology</i> , 2012, 86, 6491-6502.	1.5	51
42	124 HEPATOCYTES DERIVED FROM HUMAN PLURIPOTENT STEM CELLS PERMIT COMPLETE REPLICATION OF THE HEPATITIS C VIRUS. <i>Journal of Hepatology</i> , 2012, 56, S54-S55.	1.8	0
43	Confinement to Organelle-Associated Inclusion Structures Mediates Asymmetric Inheritance of Aggregated Protein in Budding Yeast. <i>Cell Reports</i> , 2012, 2, 738-747.	2.9	173
44	Human pluripotent stem cell-derived hepatocytes support complete replication of hepatitis C virus. <i>Journal of Hepatology</i> , 2012, 57, 246-251.	1.8	90
45	Long-Term Culture and Coculture of Primary Rat and Human Hepatocytes. <i>Methods in Molecular Biology</i> , 2012, 945, 287-302.	0.4	87
46	Naringenin inhibits the assembly and long-term production of infectious hepatitis C virus particles through a PPAR-mediated mechanism. <i>Journal of Hepatology</i> , 2011, 55, 963-971.	1.8	121
47	Enhancement of Naringenin Bioavailability by Complexation with Hydroxypropoyl- β -Cyclodextrin. <i>PLoS ONE</i> , 2011, 6, e18033.	1.1	137
48	HCV Causes Chronic Endoplasmic Reticulum Stress Leading to Adaptation and Interference with the Unfolded Protein Response. <i>PLoS ONE</i> , 2011, 6, e24660.	1.1	96
49	In situ metabolic flux analysis to quantify the liver metabolic response to experimental burn injury. <i>Biotechnology and Bioengineering</i> , 2011, 108, 839-852.	1.7	25
50	Self-assembling elastin-like peptides growth factor chimeric nanoparticles for the treatment of chronic wounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1034-1039.	3.3	163
51	Engineering of an Hepatic Organoid to Develop Liver Assist Devices. <i>Cell Transplantation</i> , 2010, 19, 815-822.	1.2	45
52	Human Immune Reactivity against Liver Sinusoidal Endothelial Cells from GalT \pm (1,3)GalT-Deficient Pigs. <i>Cell Transplantation</i> , 2010, 19, 783-789.	1.2	12
53	Multiple effects of silymarin on the hepatitis C virus lifecycle. <i>Hepatology</i> , 2010, 51, 1912-1921.	3.6	191
54	Organ reengineering through development of a transplantable recellularized liver graft using decellularized liver matrix. <i>Nature Medicine</i> , 2010, 16, 814-820.	15.2	1,215

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55	Transcriptional Regulation of Human and Rat Hepatic Lipid Metabolism by the Grapefruit Flavonoid Naringenin: Role of PPAR α , PPAR β and LXR α . PLoS ONE, 2010, 5, e12399.	1.1	188
56	Reactive Bone Marrow Stromal Cells Attenuate Systemic Inflammation via sTNFR1. Molecular Therapy, 2010, 18, 1857-1864.	3.7	144
57	Amino acid-mediated heterotypic interaction governs performance of a hepatic tissue model. FASEB Journal, 2009, 23, 2288-2298.	0.2	41
58	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
59	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
60	Recovery of Warm Ischemic Rat Liver Grafts by Normothermic Extracorporeal Perfusion. Transplantation, 2009, 87, 170-177.	0.5	82
61	Propofol induces ERK-dependant expression of c-Fos and Egr-1 in neuronal cells. NeuroReport, 2009, 20, 657-662.	0.6	9
62	Design and Application of Microfluidic Systems for In Vitro Pharmacokinetic Evaluation of Drug Candidates. Current Drug Metabolism, 2009, 10, 1192-1199.	0.7	48
63	Tissue Engineering Application in General Surgery. , 2009, , 855-867.		2
64	Apolipoprotein B-dependent hepatitis C virus secretion is inhibited by the grapefruit flavonoid naringenin. Hepatology, 2008, 47, 1437-1445.	3.6	226
65	Mesenchymal stem cell-derived molecules directly modulate hepatocellular death and regeneration in vitro and in vivo. Hepatology, 2008, 47, 1634-1643.	3.6	461
66	Reply:. Hepatology, 2008, 47, 2142-2143.	3.6	0
67	An orally delivered small-molecule formulation with antiangiogenic and anticancer activity. Nature Biotechnology, 2008, 26, 799-807.	9.4	165
68	Activin Alters the Kinetics of Endoderm Induction in Embryonic Stem Cells Cultured on Collagen Gels. Stem Cells, 2008, 26, 474-484.	1.4	23
69	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
70	Homogeneous differentiation of hepatocyte-like cells from embryonic stem cells: applications for the treatment of liver failure. FASEB Journal, 2008, 22, 898-909.	0.2	79
71	Integration of Technologies for Hepatic Tissue Engineering. , 2007, 103, 309-329.		82
72	Micropatterning of living cells by laser-guided direct writing: application to fabrication of hepatic endothelial sinusoid-like structures. Nature Protocols, 2006, 1, 2288-2296.	5.5	117

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73	Liver endothelial cells promote LDL-R expression and the uptake of HCV-like particles in primary rat and human hepatocytes. <i>Hepatology</i> , 2006, 43, 257-265.	3.6	68
74	Endothelium-Mediated Hepatocyte Recruitment in the Establishment of Liver-like Tissue In Vitro. <i>Tissue Engineering</i> , 2006, 12, 1627-1638.	4.9	75
75	A novel formulation of oxygen-carrying matrix enhances liver-specific function of cultured hepatocytes. <i>FASEB Journal</i> , 2006, 20, 2531-2533.	0.2	74
76	Laser-guided direct writing for three-dimensional tissue engineering. <i>Biotechnology and Bioengineering</i> , 2005, 92, 129-136.	1.7	249
77	Cell Patterning on Biological Gels via Cell Spraying through a Mask. <i>Tissue Engineering</i> , 2005, 11, 701-708.	4.9	47
78	Dimensionless parameters for the design of optical traps and laser guidance systems. <i>Applied Optics</i> , 2004, 43, 3999.	2.1	47
79	Analysis of radiation forces in laser trapping and laser-guided direct writing applications. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 131-141.	1.0	48