

Dayong Gao

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,657
citations

361045

20
h-index

315357

38
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60
all docs

60
docs citations

60
times ranked

2239
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous multiparameter whole blood hemostasis assessment using a carbon nanotube-paper composite capacitance sensor. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113786.	5.3	5
2	The ISBER 2022 Awards. <i>Biopreservation and Biobanking</i> , 2022, 20, 306-307.	0.5	0
3	On-Chip Construction of Liver Lobules with Self-Assembled Perfusable Hepatic Sinusoid Networks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32640-32652.	4.0	24
4	Effect of Warming Process on the Survival of Cryopreserved Human Peripheral Blood Mononuclear Cells. <i>Biopreservation and Biobanking</i> , 2021, 19, 318-323.	0.5	5
5	Fine-tuned dehydration by trehalose enables the cryopreservation of RBCs with unusually low concentrations of glycerol. <i>Journal of Materials Chemistry B</i> , 2021, 9, 295-306.	2.9	23
6	On-chip label-free determination of cell survival rate. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111820.	5.3	10
7	On-Chip Sonoporation-Based Flow Cytometric Magnetic Labeling. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3187-3196.	2.6	2
8	A single-cell identification and capture chip for automatically and rapidly determining hydraulic permeability of cells. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4537-4548.	1.9	5
9	Polyacrylic acid coated carbon nanotubeâ€‘paper composites for humidity and moisture sensing. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5374-5380.	2.7	22
10	Rapid and continuous on-chip loading of trehalose into erythrocytes. <i>Biomedical Microdevices</i> , 2019, 21, 5.	1.4	3
11	Investigation of Electromagnetic Resonance Rewarming Enhanced by Magnetic Nanoparticles for Cryopreservation. <i>Langmuir</i> , 2019, 35, 7560-7570.	1.6	17
12	Adequacy of Continuous Renal Replacement Therapy. , 2019, , 1029-1034.e2.		0
13	Fracture-Induced Mechanoelectrical Sensitivities of Paper-Based Nanocomposites. <i>Advanced Materials Technologies</i> , 2018, 3, 1700266.	3.0	6
14	Simulation of blood and oxygen distributions in a hepatic lobule with sinusoids obstructed by cancer cells. <i>Journal of Theoretical Biology</i> , 2018, 446, 229-237.	0.8	2
15	Deglycerolization of red blood cells: A new dilution-filtration system. <i>Cryobiology</i> , 2018, 81, 160-167.	0.3	10
16	Microvasculature-directed thrombopoiesis in a 3D in vitro marrow microenvironment. <i>PLoS ONE</i> , 2018, 13, e0195082.	1.1	9
17	Cryopreservation of human mucosal tissues. <i>PLoS ONE</i> , 2018, 13, e0200653.	1.1	14
18	Determination of the temperature-dependent cell membrane permeabilities using microfluidics with integrated flow and temperature control. <i>Lab on A Chip</i> , 2017, 17, 951-960.	3.1	32

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19	Unloading of cryoprotectants from cryoprotectant-loaded cells on a microfluidic platform. <i>Biomedical Microdevices</i> , 2017, 19, 15.	1.4	8
20	A multistage-dialysis microdevice for extraction of cryoprotectants. <i>Biomedical Microdevices</i> , 2017, 19, 30.	1.4	6
21	The promise of organ and tissue preservation to transform medicine. <i>Nature Biotechnology</i> , 2017, 35, 530-542.	9.4	371
22	Cryobiology Meets Biobanking in Hefei, China. <i>Biopreservation and Biobanking</i> , 2017, 15, 403-403.	0.5	0
23	Determination of Dielectric Properties of Cryoprotective Agent Solutions with a Resonant Cavity for the Electromagnetic Rewarming in Cryopreservation. <i>Biopreservation and Biobanking</i> , 2017, 15, 404-409.	0.5	7
24	Topical and Targeted Delivery of siRNAs to Melanoma Cells Using a Fusion Peptide Carrier. <i>Scientific Reports</i> , 2016, 6, 29159.	1.6	29
25	Sensing and Sensibility: Single-Islet-based Quality Control Assay of Cryopreserved Pancreatic Islets with Functionalized Hydrogel Microcapsules. <i>Advanced Healthcare Materials</i> , 2016, 5, 223-231.	3.9	25
26	A study of the osmotic characteristics, water permeability, and cryoprotectant permeability of human vaginal immune cells. <i>Cryobiology</i> , 2016, 72, 93-99.	0.3	37
27	Effect of iron oxide nanoparticles on the permeability properties of Sf21 cells. <i>Cryobiology</i> , 2016, 72, 21-26.	0.3	5
28	Determination of the Membrane Permeability to Water of Human Vaginal Mucosal Immune Cells at Subzero Temperatures Using Differential Scanning Calorimetry. <i>Biopreservation and Biobanking</i> , 2016, 14, 307-313.	0.5	12
29	Quantification of cell viability and rapid screening anti-cancer drug utilizing nanomechanical fluctuation. <i>Biosensors and Bioelectronics</i> , 2016, 77, 164-173.	5.3	42
30	Cryopreservation of Human Mucosal Leukocytes. <i>PLoS ONE</i> , 2016, 11, e0156293.	1.1	14
31	High accuracy thermal conductivity measurement of aqueous cryoprotective agents and semi-rigid biological tissues using a microfabricated thermal sensor. <i>Scientific Reports</i> , 2015, 5, 10377.	1.6	10
32	Three-Dimensional Simulation of Mass Transfer in Artificial Kidneys. <i>Artificial Organs</i> , 2015, 39, E79-89.	1.0	21
33	Fatigue damage to pig erythrocytes during repeated swelling and shrinkage. <i>Cryobiology</i> , 2015, 71, 210-215.	0.3	7
34	Update on Cryopreservation of Adipose Tissue and Adipose-derived Stem Cells. <i>Clinics in Plastic Surgery</i> , 2015, 42, 209-218.	0.7	33
35	Cell Blebbing upon Addition of Cryoprotectants: A Self-Protection Mechanism. <i>PLoS ONE</i> , 2015, 10, e0125746.	1.1	14
36	Optimizing Viable Leukocyte Sampling from the Female Genital Tract for Clinical Trials: An International Multi-Site Study. <i>PLoS ONE</i> , 2014, 9, e85675.	1.1	73

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37	Semi-Automated, Occupationally Safe Immunofluorescence Microtip Sensor for Rapid Detection of Mycobacterium Cells in Sputum. PLoS ONE, 2014, 9, e86018.	1.1	8
38	Effect of the Polydispersity of RBCs on the Recovery Rate of RBCs during the Removal of CPAs. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-11.	0.7	1
39	Numerical simulation of the effect of superparamagnetic nanoparticles on microwave rewarming of cryopreserved tissues. Cryobiology, 2014, 68, 234-243.	0.3	30
40	Biotransport and intracellular ice formation phenomena in freezing human embryonic kidney cells (HEK293T). Cryobiology, 2014, 68, 294-302.	0.3	13
41	Reconstitution Of The Microvascular Thrombopoietic Niche Reveals Cross-Talk Between Megakaryocytes and The Microvasculature. Blood, 2013, 122, 2456-2456.	0.6	0
42	Electric field-induced concentration and capture of DNA onto microtips. Microfluidics and Nanofluidics, 2012, 13, 217-225.	1.0	11
43	Cryopreservation. Organogenesis, 2009, 5, 90-96.	0.4	180
44	Solute and Water Kinetics in Continuous Therapies. , 2009, , 1377-1384.		2
45	Predilution and Postdilution Reinfusion Techniques. , 2009, , 1370-1374.		1
46	Convective Renal Replacement Therapies for Acute Renal Failure and End-Stage Renal Disease. , 2008, , 521-536.		0
47	A Modified Differential Scanning Calorimetry Method for Determining Water Transport Properties in Biological Cells During the Freezing Process. Cell Preservation Technology, 2007, 5, 25-32.	0.8	6
48	Development of a single mode electromagnetic resonant cavity for rewarming of cryopreserved biomaterials. Cryobiology, 2006, 53, 288-293.	0.3	24
49	Adipose Aspirates as a Source for Human Processed Lipoaspirate Cells after Optimal Cryopreservation. Plastic and Reconstructive Surgery, 2006, 117, 1845-1850.	0.7	39
50	Universal model for intracellular ice formation and its growth. AIChE Journal, 2006, 52, 2596-2606.	1.8	43
51	The viability of fatty tissues within adipose aspirates after conventional liposuction: a comprehensive study. Annals of Plastic Surgery, 2005, 54, 288-92; discussion 292.	0.5	66
52	Convective renal replacement therapies for acute renal failure and end-stage renal disease. Hemodialysis International, 2004, 8, 386-393.	0.4	9
53	Dose Determinants in Continuous Renal Replacement Therapy. Artificial Organs, 2003, 27, 815-820.	1.0	79
54	Cryopreservation and Microsurgical Implantation of Rabbit Carotid Arteries. Cell Preservation Technology, 2002, 1, 121-128.	0.8	15

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55	Low-Molecular Weight Proteins in End-Stage Renal Disease. Journal of the American Society of Nephrology: JASN, 2002, 13, S41-S47.	3.0	73
56	Combined electromagnetic and heat-conduction analysis of rapid rewarming of cryopreserved tissues. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 2185-2190.	2.9	13
57	Fundamental Cryobiology of Mammalian Spermatozoa. , 1997, , 263-328.		87
58	Novel Microwave Technology for Cryopreservation of Biomaterials by Suppression of Apparent Ice Formation. Cryobiology, 1997, 34, 363-372.	0.3	51
59	Dialysate Regeneration with Urea Selective Membrane Coupled to Photoelectrochemical Oxidation System. Advanced Materials Interfaces, 0, , 2102308.	1.9	3