

Fan Yuan

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.

86
papers

5,347
citations

32
h-index

72
g-index

93
ext. papers

5,827
ext. citations

6.9
avg, IF

5.57
L-index

#	Paper	IF	Citations
86	Interstitial pH and pO ₂ gradients in solid tumors in vivo: high-resolution measurements reveal a lack of correlation. <i>Nature Medicine</i> , 1997 , 3, 177-82	50.5	1329
85	Tumor vascular permeability, accumulation, and penetration of macromolecular drug carriers. <i>Journal of the National Cancer Institute</i> , 2006 , 98, 335-44	9.7	713
84	Quantitative angiogenesis assays: progress and problems. <i>Nature Medicine</i> , 1997 , 3, 1203-8	50.5	343
83	A review of three-dimensional in vitro tissue models for drug discovery and transport studies. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 59-74	3.9	336
82	Hyperthermia mediated liposomal drug delivery. <i>International Journal of Hyperthermia</i> , 2006 , 22, 205-13	3.7	215
81	Microvascular permeability of albumin, vascular surface area, and vascular volume measured in human adenocarcinoma LS174T using dorsal chamber in SCID mice. <i>Microvascular Research</i> , 1993 , 45, 269-89	3.7	170
80	Comparative effects of thermosensitive doxorubicin-containing liposomes and hyperthermia in human and murine tumours. <i>International Journal of Hyperthermia</i> , 2010 , 26, 485-98	3.7	119
79	The brain interstitial system: Anatomy, modeling, in vivo measurement, and applications. <i>Progress in Neurobiology</i> , 2017 , 157, 230-246	10.9	110
78	Transvascular drug delivery in solid tumors. <i>Seminars in Radiation Oncology</i> , 1998 , 8, 164-75	5.5	105
77	Targeting tumor microvessels using doxorubicin encapsulated in a novel thermosensitive liposome. <i>Molecular Cancer Therapeutics</i> , 2004 , 3, 1311-7	6.1	85
76	Quantum confined peptide assemblies with tunable visible to near-infrared spectral range. <i>Nature Communications</i> , 2018 , 9, 3217	17.4	76
75	Numerical simulations of angiogenesis in the cornea. <i>Microvascular Research</i> , 2001 , 61, 14-27	3.7	71
74	Visualization of conventional outflow tissue responses to netarsudil in living mouse eyes. <i>European Journal of Pharmacology</i> , 2016 , 787, 20-31	5.3	66
73	Interlaboratory variation in oxygen tension measurement by Eppendorf "Histogram" and comparison with hypoxic marker. <i>Journal of Surgical Oncology</i> , 1997 , 66, 30-8	2.8	61
72	Perfusion of single tumor microvessels: application to vascular permeability measurement. <i>Microcirculation</i> , 1996 , 3, 349-57	2.9	59
71	Accurate displacement measurement via a self-adaptive digital image correlation method based on a weighted ZNSSD criterion. <i>Optics and Lasers in Engineering</i> , 2014 , 52, 75-85	4.6	56
70	A novel Schlemm's Canal scaffold increases outflow facility in a human anterior segment perfusion model 2012 , 53, 6115-21		56

69	Membrane binding of plasmid DNA and endocytic pathways are involved in electrotransfection of mammalian cells. <i>PLoS ONE</i> , 2011 , 6, e20923	3.7	56
68	Interstitial hydraulic conductivity in a fibrosarcoma. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H2726-34	5.2	55
67	Delivery of viral vectors to tumor cells: extracellular transport, systemic distribution, and strategies for improvement. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 114-27	4.7	53
66	Systemic dissemination of viral vectors during intratumoral injection. <i>Molecular Cancer Therapeutics</i> , 2003 , 2, 1233-42	6.1	53
65	Tumor microvascular permeability is a key determinant for antivascular effects of doxorubicin encapsulated in a temperature sensitive liposome. <i>International Journal of Hyperthermia</i> , 2008 , 24, 475-82	3.7	50
64	Controlled release of ethacrynic acid from poly(lactide-co-glycolide) films for glaucoma treatment. <i>Biomaterials</i> , 2004 , 25, 4279-85	15.6	48
63	Modeling the relative impact of capsular tissue effects on implanted glucose sensor time lag and signal attenuation. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1695-705	4.4	46
62	A novel method for viral gene delivery in solid tumors. <i>Cancer Research</i> , 2005 , 65, 7541-5	10.1	46
61	Role of specific endocytic pathways in electrotransfection of cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014 , 1, 14058	6.4	45
60	Mechanistic analysis of electroporation-induced cellular uptake of macromolecules. <i>Experimental Biology and Medicine</i> , 2008 , 233, 94-105	3.7	44
59	Differential effects of trabecular meshwork stiffness on outflow facility in normal human and porcine eyes 2012 , 53, 5242-50		41
58	Nonlinear dependence of hydraulic conductivity on tissue deformation during intratumoral infusion. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 1173-81	4.7	41
57	Available space and extracellular transport of macromolecules: effects of pore size and connectedness. <i>Annals of Biomedical Engineering</i> , 2001 , 29, 1150-8	4.7	41
56	Circumferential tensile stiffness of glaucomatous trabecular meshwork 2014 , 55, 814-23		34
55	Intravital fluorescence facilitates measurement of multiple physiologic functions and gene expression in tumors of live animals. <i>Disease Markers</i> , 2002 , 18, 293-311	3.2	32
54	Distinct effects of endosomal escape and inhibition of endosomal trafficking on gene delivery via electrotransfection. <i>PLoS ONE</i> , 2017 , 12, e0171699	3.7	29
53	Field distribution and DNA transport in solid tumors during electric field-mediated gene delivery. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 691-711	3.9	26
52	Effects of rate, volume, and dose of intratumoral infusion on virus dissemination in local gene delivery. <i>Molecular Cancer Therapeutics</i> , 2006 , 5, 362-6	6.1	26

51	Effects of pulse strength and pulse duration on in vitro DNA electromobility. <i>Bioelectrochemistry</i> , 2004 , 62, 37-45	5.6	26
50	Reduction of wound angiogenesis in patients treated with BMS-275291, a broad spectrum matrix metalloproteinase inhibitor. <i>Clinical Cancer Research</i> , 2003 , 9, 586-93	12.9	26
49	Elastic hydrogel as a sensor for detection of mechanical stress generated by single cells grown in three-dimensional environment. <i>Biomaterials</i> , 2016 , 98, 103-12	15.6	25
48	A microfluidic system for investigation of extravascular transport and cellular uptake of drugs in tumors. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1326-35	4.9	25
47	Electric fields in tumors exposed to external voltage sources: implication for electric field-mediated drug and gene delivery. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 1564-72	4.7	24
46	Mathematical Modeling of Outflow Facility Increase With Trabecular Meshwork Bypass and Schlemm Canal Dilation. <i>Journal of Glaucoma</i> , 2016 , 25, 355-64	2.1	24
45	Current Progress in Electrotransfection as a Nonviral Method for Gene Delivery. <i>Molecular Pharmaceutics</i> , 2018 , 15, 3617-3624	5.6	22
44	Quantitative analysis of intratumoral infusion of color molecules. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H715-21	5.2	22
43	Involvement of a Rac1-Dependent Macropinocytosis Pathway in Plasmid DNA Delivery by Electrotransfection. <i>Molecular Therapy</i> , 2017 , 25, 803-815	11.7	21
42	Electric field-mediated transport of plasmid DNA in tumor interstitium in vivo. <i>Bioelectrochemistry</i> , 2007 , 71, 233-42	5.6	21
41	A self-adaptive sampling digital image correlation algorithm for accurate displacement measurement. <i>Optics and Lasers in Engineering</i> , 2015 , 65, 57-63	4.6	20
40	A clinical model of dermal wound angiogenesis. <i>Wound Repair and Regeneration</i> , 2003 , 11, 306-13	3.6	20
39	Electric fields within cells as a function of membrane resistivity--a model study. <i>IEEE Transactions on Nanobioscience</i> , 2004 , 3, 225-31	3.4	18
38	Predicting glucose sensor behavior in blood using transport modeling: relative impacts of protein biofouling and cellular metabolic effects. <i>Journal of Diabetes Science and Technology</i> , 2013 , 7, 1547-60	4.1	17
37	Enhancing Electrotransfection Efficiency through Improvement in Nuclear Entry of Plasmid DNA. <i>Molecular Therapy - Nucleic Acids</i> , 2018 , 11, 263-271	10.7	16
36	Preferential extravasation and accumulation of liposomal vincristine in tumor comparing to normal tissue enhances antitumor activity. <i>Cancer Chemotherapy and Pharmacology</i> , 2006 , 58, 245-55	3.5	16
35	Disease progression in iridocorneal angle tissues of BMP2-induced ocular hypertensive mice with optical coherence tomography. <i>Molecular Vision</i> , 2014 , 20, 1695-709	2.3	16
34	Electric fields around and within single cells during electroporation-a model study. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 1264-75	4.7	15

33	Mechanical analysis of rat trabecular meshwork. <i>Soft Matter</i> , 2015 , 11, 2857-65	3.6	14
32	Dose response of angiogenesis to basic fibroblast growth factor in rat corneal pocket assay: II. Numerical simulations. <i>Microvascular Research</i> , 2008 , 75, 16-24	3.7	13
31	Proliferation behavior of E. coli in a three-dimensional in vitro tumor model. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 696-705	3.7	12
30	Ultrastructural Analysis of Vesicular Transport in Electrotransfection. <i>Microscopy and Microanalysis</i> , 2018 , 24, 553-563	0.5	12
29	A single molecule detection method for understanding mechanisms of electric field-mediated interstitial transport of genes. <i>Bioelectrochemistry</i> , 2006 , 69, 248-53	5.6	11
28	Digital image correlation involves an inverse problem: A regularization scheme based on subset size constraint. <i>Optics and Lasers in Engineering</i> , 2016 , 81, 54-62	4.6	10
27	Macrophage embedded fibrin gels: an in vitro platform for assessing inflammation effects on implantable glucose sensors. <i>Biomaterials</i> , 2014 , 35, 9563-72	15.6	10
26	Relaxin treatment of solid tumors: effects on electric field-mediated gene delivery. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 2566-73	6.1	10
25	An equivalent length model of microdialysis sampling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002 , 28, 269-78	3.5	10
24	Transscleral diffusion of ethacrynic acid and sodium fluorescein. <i>Molecular Vision</i> , 2007 , 13, 243-51	2.3	10
23	Dose response of angiogenesis to basic fibroblast growth factor in rat corneal pocket assay: I. Experimental characterizations. <i>Microvascular Research</i> , 2008 , 75, 10-5	3.7	9
22	Glucose recovery with bare and hydrogel-coated microdialysis probes: experiment and simulation of temporal effects. <i>Analytical Chemistry</i> , 2007 , 79, 445-52	7.8	9
21	Improving interstitial transport of macromolecules through reduction in cell volume fraction in tumor tissues. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 1088-95	6	8
20	Numerical simulations of ethacrynic acid transport from precorneal region to trabecular meshwork. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 935-44	4.7	8
19	Quantitative comparison of the inhibitory effects of GW5638 and tamoxifen on angiogenesis in the cornea pocket assay. <i>Angiogenesis</i> , 2006 , 9, 53-8	10.6	8
18	Quantitative analysis of angiogenesis and growth of bone: effect of indomethacin exposure in a combined in vitro-in vivo approach. <i>Research in Experimental Medicine</i> , 1995 , 195, 275-88		8
17	Heating or freezing bone. Effects on angiogenesis induction and growth potential in mice. <i>Acta Orthopaedica</i> , 1996 , 67, 383-8		8
16	Improvement in Electrotransfection of Cells Using Carbon-Based Electrodes. <i>Cellular and Molecular Bioengineering</i> , 2016 , 9, 538-545	3.9	7

15	Thin film Gallium nitride (GaN) based acoustofluidic Tweezer: Modelling and microparticle manipulation. <i>Ultrasonics</i> , 2020 , 108, 106202	3.5	6
14	Mathematical modeling of the Phoenix Rising pathway. <i>PLoS Computational Biology</i> , 2014 , 10, e10034615		6
13	An Enhanced Tilted-Angle Acoustofluidic Chip for Cancer Cell Manipulation. <i>IEEE Electron Device Letters</i> , 2021 , 42, 577-580	4.4	6
12	Cellular pharmacokinetic and pharmacodynamic analyses of ethacrynic acid: Implications in topical drug delivery in the eye. <i>Molecular Vision</i> , 2011 , 17, 2507-15	2.3	5
11	The Long Noncoding RNA Promotes Sarcoma Metastasis by Regulating RNA Splicing Pathways. <i>Molecular Cancer Research</i> , 2020 , 18, 1534-1544	6.6	4
10	Gallium Nitride: A Versatile Compound Semiconductor as Novel Piezoelectric Film for Acoustic Tweezer in Manipulation of Cancer Cells. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3355-3361	2.9	4
9	Alginate encapsulation is a highly reproducible method for tumor cell implantation in dorsal skinfold chambers. <i>BioTechniques</i> , 2005 , 39, 834, 836, 838-9	2.5	4
8	A statistical framework for determination of minimal plasmid copy number required for transgene expression in mammalian cells. <i>Bioelectrochemistry</i> , 2021 , 138, 107731	5.6	4
7	A power-law dependence of bacterial invasion on mammalian host receptors. <i>PLoS Computational Biology</i> , 2015 , 11, e1004203	5	3
6	Systemic virus dissemination during local gene delivery in solid tumors and its control with an alginate solution. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2004 , 2004, 3524-6		3
5	Interstitial transport of macromolecules434-454		2
4	Inhibition of Caspases Improves Non-Viral T Cell Receptor Editing. <i>Cancers</i> , 2020 , 12,	6.6	2
3	Stiffness characterization of anisotropic trabecular meshwork. <i>Journal of Biomechanics</i> , 2017 , 61, 144-150	2.9	1
2	Enhancing Cell Viability and Efficiency of Plasmid DNA Electrotransfer Through Reducing Plasma Membrane Permeabilization. <i>Bioelectricity</i> , 2020 , 2, 251-257	2	1
1	Redirecting Vesicular Transport to Improve Nonviral Delivery of Molecular Cargo. <i>Advanced Biology</i> , 2020 , 4, e2000059	3.5	1