

Fan Yuan

List of Publications by Year in descending order

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91
papers

6,280
citations

147801

31
h-index

71685

76
g-index

93
all docs

93
docs citations

93
times ranked

8261
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 177-182.	30.7	1,511
2	Tumor Vascular Permeability, Accumulation, and Penetration of Macromolecular Drug Carriers. <i>Journal of the National Cancer Institute</i> , 2006, 98, 335-344.	6.3	816
3	Quantitative angiogenesis assays: Progress and problems. <i>Nature Medicine</i> , 1997, 3, 1203-1208.	30.7	385
4	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.	3.3	379
5	Hyperthermia mediated liposomal drug delivery. <i>International Journal of Hyperthermia</i> , 2006, 22, 205-213.	2.5	248
6	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, 269-289.	2.5	193
7	The brain interstitial system: Anatomy, modeling, in vivo measurement, and applications. <i>Progress in Neurobiology</i> , 2017, 157, 230-246.	5.7	161
8	Comparative effects of thermosensitive doxorubicin-containing liposomes and hyperthermia in human and murine tumours. <i>International Journal of Hyperthermia</i> , 2010, 26, 485-498.	2.5	136
9	Quantum confined peptide assemblies with tunable visible to near-infrared spectral range. <i>Nature Communications</i> , 2018, 9, 3217.	12.8	122
10	Transvascular drug delivery in solid tumors. <i>Seminars in Radiation Oncology</i> , 1998, 8, 164-175.	2.2	111
11	Visualization of conventional outflow tissue responses to netarsudil in living mouse eyes. <i>European Journal of Pharmacology</i> , 2016, 787, 20-31.	3.5	89
12	Targeting tumor microvessels using doxorubicin encapsulated in a novel thermosensitive liposome. <i>Molecular Cancer Therapeutics</i> , 2004, 3, 1311-7.	4.1	85
13	Numerical Simulations of Angiogenesis in the Cornea. <i>Microvascular Research</i> , 2001, 61, 14-27.	2.5	81
14	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.	3.8	78
15	Interlaboratory variation in oxygen tension measurement by Eppendorf "Hystograph" and comparison with hypoxic marker. , 1997, 66, 30-38.		71
16	A Novel Schlemm's Canal Scaffold Increases Outflow Facility in a Human Anterior Segment Perfusion Model. , 2012, 53, 6115.		68
17	Membrane Binding of Plasmid DNA and Endocytic Pathways Are Involved in Electrotransfection of Mammalian Cells. <i>PLoS ONE</i> , 2011, 6, e20923.	2.5	66
18	Perfusion of Single Tumor Microvessels: Application to Vascular Permeability Measurement. <i>Microcirculation</i> , 1996, 3, 349-357.	1.8	61

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19	Role of specific endocytic pathways in electrotransfection of cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014, 1, 14058.	4.1	61
20	Delivery of Viral Vectors to Tumor Cells: Extracellular Transport, Systemic Distribution, and Strategies for Improvement. <i>Annals of Biomedical Engineering</i> , 2006, 34, 114-127.	2.5	60
21	Systemic dissemination of viral vectors during intratumoral injection. <i>Molecular Cancer Therapeutics</i> , 2003, 2, 1233-42.	4.1	60
22	Interstitial hydraulic conductivity in a fibrosarcoma. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H2726-H2734.	3.2	59
23	Controlled release of ethacrynic acid from poly(lactide-co-glycolide) films for glaucoma treatment. <i>Biomaterials</i> , 2004, 25, 4279-4285.	11.4	55
24	Tumor microvascular permeability is a key determinant for antivasular effects of doxorubicin encapsulated in a temperature sensitive liposome. <i>International Journal of Hyperthermia</i> , 2008, 24, 475-482.	2.5	55
25	Differential Effects of Trabecular Meshwork Stiffness on Outflow Facility in Normal Human and Porcine Eyes. , 2012, 53, 5242.		55
26	Nonlinear Dependence of Hydraulic Conductivity on Tissue Deformation During Intratumoral Infusion. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1173-1181.	2.5	48
27	Mechanistic Analysis of Electroporation-Induced Cellular Uptake of Macromolecules. <i>Experimental Biology and Medicine</i> , 2008, 233, 94-105.	2.4	48
28	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, 1695-1705.	3.7	48
29	A Novel Method for Viral Gene Delivery in Solid Tumors. <i>Cancer Research</i> , 2005, 65, 7541-7545.	0.9	47
30	Circumferential Tensile Stiffness of Glaucomatous Trabecular Meshwork. , 2014, 55, 814.		45
31	Available Space and Extracellular Transport of Macromolecules: Effects of Pore Size and Connectedness. <i>Annals of Biomedical Engineering</i> , 2001, 29, 1150-1158.	2.5	44
32	Distinct effects of endosomal escape and inhibition of endosomal trafficking on gene delivery via electrotransfection. <i>PLoS ONE</i> , 2017, 12, e0171699.	2.5	44
33	Current Progress in Electrotransfection as a Nonviral Method for Gene Delivery. <i>Molecular Pharmaceutics</i> , 2018, 15, 3617-3624.	4.6	37
34	Intravital Fluorescence Facilitates Measurement of Multiple Physiologic Functions and Gene Expression in Tumors of Live Animals. <i>Disease Markers</i> , 2002, 18, 293-311.	1.3	34
35	Mathematical Modeling of Outflow Facility Increase With Trabecular Meshwork Bypass and Schlemm Canal Dilation. <i>Journal of Glaucoma</i> , 2016, 25, 355-364.	1.6	34
36	Involvement of a Rac1-Dependent Macropinocytosis Pathway in Plasmid DNA Delivery by Electrotransfection. <i>Molecular Therapy</i> , 2017, 25, 803-815.	8.2	33

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37	Effects of rate, volume, and dose of intratumoral infusion on virus dissemination in local gene delivery. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 362-366.	4.1	31
38	Elastic hydrogel as a sensor for detection of mechanical stress generated by single cells grown in three-dimensional environment. <i>Biomaterials</i> , 2016, 98, 103-112.	11.4	31
39	Quantitative analysis of intratumoral infusion of color molecules. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H715-H721.	3.2	30
40	Enhancing Electrotransfection Efficiency through Improvement in Nuclear Entry of Plasmid DNA. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 11, 263-271.	5.1	29
41	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.	7.0	29
42	Field Distribution and DNA Transport in Solid Tumors During Electric Field-Mediated Gene Delivery. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 691-711.	3.3	28
43	Effects of pulse strength and pulse duration on in vitro DNA electromobility. <i>Bioelectrochemistry</i> , 2004, 62, 37-45.	4.6	27
44	A microfluidic system for investigation of extravascular transport and cellular uptake of drugs in tumors. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1326-1335.	3.3	27
45	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, 1564-1572.	2.5	26
46	A self-adaptive sampling digital image correlation algorithm for accurate displacement measurement. <i>Optics and Lasers in Engineering</i> , 2015, 65, 57-63.	3.8	25
47	Electric field-mediated transport of plasmid DNA in tumor interstitium in vivo. <i>Bioelectrochemistry</i> , 2007, 71, 233-242.	4.6	24
48	A clinical model of dermal wound angiogenesis. <i>Wound Repair and Regeneration</i> , 2003, 11, 306-313.	3.0	23
49	Electric Fields Within Cells as a Function of Membrane Resistivity—A Model Study. <i>IEEE Transactions on Nanobioscience</i> , 2004, 3, 225-231.	3.3	21
50	Preferential extravasation and accumulation of liposomal vincristine in tumor comparing to normal tissue enhances antitumor activity. <i>Cancer Chemotherapy and Pharmacology</i> , 2006, 58, 245-255.	2.3	19
51	Mechanical analysis of rat trabecular meshwork. <i>Soft Matter</i> , 2015, 11, 2857-2865.	2.7	18
52	Disease progression in iridocorneal angle tissues of BMP2-induced ocular hypertensive mice with optical coherence tomography. <i>Molecular Vision</i> , 2014, 20, 1695-709.	1.1	18
53	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.	2.5	17
54	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, 1547-1560.	2.2	17

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55	An Enhanced Tilted-Angle Acoustofluidic Chip for Cancer Cell Manipulation. <i>IEEE Electron Device Letters</i> , 2021, 42, 577-580.	3.9	17
56	The Long Noncoding RNA <i>NEAT1</i> Promotes Sarcoma Metastasis by Regulating RNA Splicing Pathways. <i>Molecular Cancer Research</i> , 2020, 18, 1534-1544.	3.4	16
57	Electric Fields around and within Single Cells during Electroporation—A Model Study. <i>Annals of Biomedical Engineering</i> , 2007, 35, 1264-1275.	2.5	15
58	Ultrastructural Analysis of Vesicular Transport in Electrotransfection. <i>Microscopy and Microanalysis</i> , 2018, 24, 553-563.	0.4	14
59	A single molecule detection method for understanding mechanisms of electric field-mediated interstitial transport of genes. <i>Bioelectrochemistry</i> , 2006, 69, 248-253.	4.6	13
60	Dose response of angiogenesis to basic fibroblast growth factor in rat corneal pocket assay: I. Experimental characterizations. <i>Microvascular Research</i> , 2008, 75, 10-15.	2.5	13
61	Numerical Simulations of Ethacrynic Acid Transport from Precorneal Region to Trabecular Meshwork. <i>Annals of Biomedical Engineering</i> , 2010, 38, 935-944.	2.5	13
62	Proliferation behavior of <i>E. coli</i> in a three-dimensional in vitro tumor model. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 696.	1.3	13
63	Relaxin treatment of solid tumors: effects on electric field-mediated gene delivery. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 2566-2573.	4.1	12
64	Improvement in Electrotransfection of Cells Using Carbon-Based Electrodes. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 538-545.	2.1	12
65	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.	3.8	12
66	Quantitative comparison of the inhibitory effects of GW5638 and tamoxifen on angiogenesis in the cornea pocket assay. <i>Angiogenesis</i> , 2006, 9, 53-58.	7.2	11
67	Thin film Gallium nitride (GaN) based acoustofluidic Tweezer: Modelling and microparticle manipulation. <i>Ultrasonics</i> , 2020, 108, 106202.	3.9	11
68	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.	3.0	11
69	A statistical framework for determination of minimal plasmid copy number required for transgene expression in mammalian cells. <i>Bioelectrochemistry</i> , 2021, 138, 107731.	4.6	11
70	An equivalent length model of microdialysis sampling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 28, 269-278.	2.8	10
71	Glucose Recovery with Bare and Hydrogel-Coated Microdialysis Probes: A Experiment and Simulation of Temporal Effects. <i>Analytical Chemistry</i> , 2007, 79, 445-452.	6.5	10
72	Macrophage embedded fibrin gels: An in vitro platform for assessing inflammation effects on implantable glucose sensors. <i>Biomaterials</i> , 2014, 35, 9563-9572.	11.4	10

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73	Transscleral diffusion of ethacrynic acid and sodium fluorescein. <i>Molecular Vision</i> , 2007, 13, 243-51.	1.1	10
74	Heating or freezing bone: Effects on angiogenesis induction and growth potential in mice. <i>Acta Orthopaedica</i> , 1996, 67, 383-388.	1.4	9
75	Improving interstitial transport of macromolecules through reduction in cell volume fraction in tumor tissues. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1088-1095.	3.3	9
76	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, 275-288.	0.7	8
77	Stress is good and bad for tumors. <i>Nature Biotechnology</i> , 1997, 15, 722-723.	17.5	8
78	Mathematical Modeling of the Phoenix Rising Pathway. <i>PLoS Computational Biology</i> , 2014, 10, e1003461.	3.2	8
79	Redirecting Vesicular Transport to Improve Nonviral Delivery of Molecular Cargo. <i>Advanced Biology</i> , 2020, 4, e2000059.	3.0	5
80	Inhibition of Caspases Improves Non-Viral T Cell Receptor Editing. <i>Cancers</i> , 2020, 12, 2603.	3.7	5
81	Cellular pharmacokinetic and pharmacodynamic analyses of ethacrynic acid: Implications in topical drug delivery in the eye. <i>Molecular Vision</i> , 2011, 17, 2507-15.	1.1	5
82	Alginate encapsulation is a highly reproducible method for tumor cell implantation in dorsal skinfold chambers. <i>BioTechniques</i> , 2005, 39, 834-839.	1.8	4
83	A Power-Law Dependence of Bacterial Invasion on Mammalian Host Receptors. <i>PLoS Computational Biology</i> , 2015, 11, e1004203.	3.2	4
84	Stiffness characterization of anisotropic trabecular meshwork. <i>Journal of Biomechanics</i> , 2017, 61, 144-150.	2.1	4
85	Systemic virus dissemination during local gene delivery in solid tumors and its control with an alginate solution. , 2004, 2004, 3524-6.		3
86	Enhancing Cell Viability and Efficiency of Plasmid DNA Electrotransfer Through Reducing Plasma Membrane Permeabilization. <i>Bioelectricity</i> , 2020, 2, 251-257.	1.1	3
87	Interstitial transport of macromolecules. , 0, , 434-454.		3
88	Pressure and temperature-dependence of the hydraulic conductivity in a fibrosarcoma. , 0, , .		0
89	Transscleral diffusion of ethacrynic acid and sodium fluorescein. , 0, , .		0
90	Effects of tissue stretching or cell shrinkage on penetration depth of macromolecules in a rat fibrosarcoma. , 0, , .		0

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91	Effects of electric pulse strength and pulse duration on plasmid DNA electromobility. , 0, , .		0