

Jean-Michel Escoffre

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

2,653
citations

147801

31
h-index

197818

49
g-index

103
all docs

103
docs citations

103
times ranked

2631
citing authors

#	ARTICLE	IF	CITATIONS
1	What is (Still not) Known of the Mechanism by Which Electroporation Mediates Gene Transfer and Expression in Cells and Tissues. <i>Molecular Biotechnology</i> , 2009, 41, 286-295.	2.4	231
2	Ultrasound-Responsive Cavitation Nuclei for Therapy and Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1296-1325.	1.5	193
3	Direct visualization at the single-cell level of siRNA electrotransfer into cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10443-10447.	7.1	117
4	Doxorubicin Delivery into Tumor Cells with Ultrasound and Microbubbles. <i>Molecular Pharmaceutics</i> , 2011, 8, 799-806.	4.6	108
5	Electro-mediated gene transfer and expression are controlled by the lifetime of DNA/membrane complex formation. <i>Journal of Gene Medicine</i> , 2010, 12, 117-125.	2.8	104
6	Microbubble-mediated ultrasound drug-delivery and therapeutic monitoring. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 1031-1043.	5.0	101
7	Sonochemotherapy: from bench to bedside. <i>Frontiers in Pharmacology</i> , 2015, 6, 138.	3.5	84
8	Electromediated formation of DNA complexes with cell membranes and its consequences for gene delivery. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 1538-1543.	2.6	79
9	The Actin Cytoskeleton Has an Active Role in the Electrotransfer of Plasmid DNA in Mammalian Cells. <i>Molecular Therapy</i> , 2011, 19, 913-921.	8.2	72
10	Doxorubicin liposome-loaded microbubbles for contrast imaging and ultrasound-triggered drug delivery. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 78-87.	3.0	69
11	Gene Transfer: How Can the Biological Barriers Be Overcome?. <i>Journal of Membrane Biology</i> , 2010, 236, 61-74.	2.1	66
12	In-Vivo Gene Delivery by Sonoporation: Recent Progress and Prospects. <i>Current Gene Therapy</i> , 2013, 13, 2-14.	2.0	64
13	Visualization of Membrane Loss during the Shrinkage of Giant Vesicles under Electropulsation. <i>Biophysical Journal</i> , 2009, 96, 4109-4121.	0.5	63
14	Electrochemotherapy: Progress and Prospects. <i>Current Pharmaceutical Design</i> , 2012, 18, 3406-3415.	1.9	53
15	Irinotecan Delivery by Microbubble-Assisted Ultrasound: <i>In Vitro</i> Validation and a Pilot Preclinical Study. <i>Molecular Pharmaceutics</i> , 2013, 10, 2667-2675.	4.6	52
16	Role of endocytosis in sonoporation-mediated membrane permeabilization and uptake of small molecules: a electron microscopy study. <i>Physical Biology</i> , 2015, 12, 066007.	1.8	51
17	A 3D <i>in vitro</i> spheroid model as a way to study the mechanisms of electroporation. <i>International Journal of Pharmaceutics</i> , 2009, 379, 278-284.	5.2	46
18	Hyaluronidase and Collagenase Increase the Transfection Efficiency of Gene Electrotransfer in Various Murine Tumors. <i>Human Gene Therapy</i> , 2012, 23, 128-137.	2.7	46

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19	Effect of different parameters used for <i>in vitro</i> gene electrotransfer on gene expression efficiency, cell viability and visualization of plasmid DNA at the membrane level. <i>Journal of Gene Medicine</i> , 2013, 15, 169-181.	2.8	46
20	Microbubble attenuation and destruction: are they involved in sonoporation efficiency?. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 46-52.	3.0	45
21	Real-Time Monitoring of Placental Oxygenation during Maternal Hypoxia and Hyperoxygenation Using Photoacoustic Imaging. <i>PLoS ONE</i> , 2017, 12, e0169850.	2.5	42
22	Time dependence of electric field effects on cell membranes. A review for a critical selection of pulse duration for therapeutical applications. <i>Radiology and Oncology</i> , 2008, 42, .	1.7	41
23	Cholesterol implications in plasmid DNA electrotransfer: Evidence for the involvement of endocytotic pathways. <i>International Journal of Pharmaceutics</i> , 2012, 423, 134-143.	5.2	41
24	Bleomycin delivery into cancer cells <i>in vitro</i> with ultrasound and SonoVue® or BR14® microbubbles. <i>Journal of Drug Targeting</i> , 2013, 21, 407-414.	4.4	39
25	Microbubbles combined with ultrasound therapy in ischemic stroke: A systematic review of in-vivo preclinical studies. <i>PLoS ONE</i> , 2018, 13, e0191788.	2.5	38
26	Destabilizing Giant Vesicles with Electric Fields: An Overview of Current Applications. <i>Journal of Membrane Biology</i> , 2012, 245, 555-564.	2.1	37
27	In Vitro Gene Transfer by Electrosonoporation. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1746-1755.	1.5	36
28	Membrane perturbation by an external electric field: a mechanism to permit molecular uptake. <i>European Biophysics Journal</i> , 2007, 36, 973-983.	2.2	34
29	Recruitment of endocytosis in sonopermeabilization-mediated drug delivery: a real-time study. <i>Physical Biology</i> , 2015, 12, 046010.	1.8	34
30	New insights into uteroplacental perfusion: Quantitative analysis using Doppler and contrast-enhanced ultrasound imaging. <i>Placenta</i> , 2013, 34, 424-431.	1.5	33
31	Enhancing Nab-Paclitaxel Delivery Using Microbubble-Assisted Ultrasound in a Pancreatic Cancer Model. <i>Molecular Pharmaceutics</i> , 2019, 16, 3814-3822.	4.6	32
32	Drug delivery by electropulsation: Recent developments in oncology. <i>International Journal of Pharmaceutics</i> , 2012, 423, 3-6.	5.2	31
33	Membrane disorder and phospholipid scrambling in electropermeabilized and viable cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1701-1709.	2.6	31
34	Focused ultrasound mediated drug delivery from temperature-sensitive liposomes: <i>in-vitro</i> characterization and validation. <i>Physics in Medicine and Biology</i> , 2013, 58, 8135-8151.	3.0	29
35	Observations of the Mechanisms of Electromediated DNA Uptake - From Vesicles to Tissues. <i>Current Gene Therapy</i> , 2010, 10, 256-266.	2.0	29
36	Bubble-Assisted Ultrasound: Application in Immunotherapy and Vaccination. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 243-261.	1.6	26

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37	Endothelial Cells, First Target of Drug Delivery Using Microbubble-Assisted Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1565-1583.	1.5	25
38	Formulation and Pharmacokinetics of Thermosensitive Stealth® Liposomes Encapsulating 5-Fluorouracil. <i>Pharmaceutical Research</i> , 2015, 32, 1585-1603.	3.5	24
39	Experience implication in subjective surgical ergonomics comparison between laparoscopic and robot-assisted surgeries. <i>Journal of Robotic Surgery</i> , 2020, 14, 115-121.	1.8	22
40	Focused ultrasound influence on calcein-loaded thermosensitive stealth liposomes. <i>International Journal of Hyperthermia</i> , 2015, 31, 349-358.	2.5	21
41	Electrochemotherapy: progress and prospects. <i>Current Pharmaceutical Design</i> , 2012, 18, 3406-15.	1.9	19
42	Second Harmonic and Subharmonic for Non-Linear Wideband Contrast Imaging Using a Capacitive Micromachined Ultrasonic Transducer Array. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1500-1512.	1.5	18
43	Ultrasound Contrast Imaging in Cancer – Technical Aspects and Prospects. <i>Current Molecular Imaging</i> , 2013, 2, 77-88.	0.7	18
44	Minireview: Biophysical Mechanisms of Cell Membrane Sonopermeabilization. Knowns and Unknowns. <i>Langmuir</i> , 2019, 35, 10151-10165.	3.5	18
45	In vivo imaging of tumor growth after electrochemotherapy with cisplatin. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 997-1002.	2.1	17
46	New Insights in the Gene Electrotransfer Process: Evidence for the Involvement of the Plasmid DNA Topology. <i>Current Gene Therapy</i> , 2012, 12, 417-422.	2.0	17
47	New insights on the role of ROS in the mechanisms of sonoporation-mediated gene delivery. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104998.	8.2	16
48	Long-lasting <i>In vivo</i> Gene Silencing by Electrotransfer of shRNA Expressing Plasmid. <i>Technology in Cancer Research and Treatment</i> , 2008, 7, 109-116.	1.9	14
49	Evidence for electro-induced membrane defects assessed by lateral mobility measurement of a GPI anchored protein. <i>European Biophysics Journal</i> , 2014, 43, 277-286.	2.2	12
50	Quantitative Ultrasound in Ex Vivo Fibrotic Rabbit Livers. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1777-1786.	1.5	12
51	Experimental Implementation of a Pulse Compression Technique Using Coherent Plane-Wave Compounding. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1025-1036.	3.0	9
52	Enhanced Amikacin Diffusion With Ultrasound and Microbubbles in a Mechanically Ventilated Condensed Lung Rabbit Model. <i>Frontiers in Pharmacology</i> , 2019, 10, 1562.	3.5	9
53	Taking Advantages of Blood – Brain or Spinal Cord Barrier Alterations or Restoring Them to Optimize Therapy in ALS?. <i>Journal of Personalized Medicine</i> , 2022, 12, 1071.	2.5	9
54	Transgene expression of transfected supercoiled plasmid DNA concatemers in mammalian cells. <i>Journal of Gene Medicine</i> , 2009, 11, 1071-1073.	2.8	8

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55	Gene electrotransfer: from biophysical mechanisms to in vivo applications. <i>Biophysical Reviews</i> , 2009, 1, 177-184.	3.2	8
56	Development of a Fluid Dynamic Model for Quantitative Contrast-Enhanced Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 372-383.	8.9	8
57	Assessment of Intratumoral Doxorubicin Penetration after Mild Hyperthermia-Mediated Release from Thermosensitive Liposomes. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-13.	0.8	8
58	Development of a tumor tissue-mimicking model with endothelial cell layer and collagen gel for evaluating drug penetration. <i>International Journal of Pharmaceutics</i> , 2015, 482, 118-122.	5.2	7
59	Ultrastructural modifications of cell membranes and organelles induced by sonoporation. , 2012, , .		6
60	Mild hyperthermia influence on Herceptin [®] properties. <i>Radiology and Oncology</i> , 2015, 49, 41-49.	1.7	6
61	A systematic review of ultrasound imaging and therapy in mental disorders. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 101, 109919.	4.8	6
62	shRNA-Mediated Gene Knockdown in Skeletal Muscle. <i>Methods in Molecular Biology</i> , 2012, 798, 491-501.	0.9	6
63	Evaluation of chirp reversal power modulation sequence for contrast agent imaging. <i>Physics in Medicine and Biology</i> , 2014, 59, 5101-5117.	3.0	5
64	Acoustic and Elastic Properties of a Blood Clot during Microbubble-Enhanced Sonothrombolysis: Hardening of the Clot with Inertial Cavitation. <i>Pharmaceutics</i> , 2021, 13, 1566.	4.5	5
65	Delivery of anti-cancer drugs using microbubble-assisted ultrasound in digestive oncology: from preclinical to clinical studies. <i>Expert Opinion on Drug Delivery</i> , 2022, 19, 421-433.	5.0	5
66	In-Vivo Gene Delivery by Sonoporation: Recent Progress and Prospects. <i>Current Gene Therapy</i> , 2012, 13, 2-14.	2.0	4
67	Encapsulated Bubble Dynamics in Imaging and Therapy. , 2013, , 259-289.		4
68	Serum influence on in-vitro gene delivery using microbubble-assisted ultrasound. <i>Journal of Drug Targeting</i> , 2014, 22, 748-760.	4.4	4
69	Microbubble-Assisted Ultrasound-Induced Transient Phosphatidylserine Translocation. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 838-851.	1.5	4
70	Role of thermal and mechanical effects on drug release from thermosensitive nanocarriers. , 2012, , .		3
71	Evaluation of high resolution ultrasound as a tool for assessing the 3D volume of blood clots during in vitro thrombolysis. <i>Scientific Reports</i> , 2017, 7, 6211.	3.3	3
72	Ultrasound Neurostimulation in Mice: Impact of Ultrasound Settings and Beam Properties. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1053-1063.	3.0	3

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73	First Metabolomic Signature of Blood-Brain Barrier Opening Induced by Microbubble-Assisted Ultrasound. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	2.9	3
74	Gene electrotransfer: from biophysical mechanisms to in vivo applications. <i>Biophysical Reviews</i> , 2009, 1, 185-191.	3.2	2
75	Enhanced gene transfection using ultrasound and Vevo Micromarker® microbubbles: Microbubbles-assisted ultrasound and gene delivery. , 2010, , .		2
76	Involvement of cytoskeleton in sonoporation and drug delivery. , 2014, , .		2
77	In-vitro delivery of BLM into resistant cancer cell line using sonoporation with low-boiling point phase change ultrasound contrast agents. , 2017, , .		2
78	Ultrafast ultrasound imaging using a resolution and bandwidth enhancement technique. , 2017, , .		2
79	Characterization of Ultrasound Neurostimulation in Mice. , 2020, , .		2
80	High-intensity focused ultrasound-mediated doxorubicin delivery with thermosensitive liposomes. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	1
81	Lattice of nonlinear coupled oscillators: An acousto-mechanical analogy of gas microbubble. , 2014, , .		1
82	Ultrafast ultrasound imaging using a resolution and bandwidth enhancement technique. , 2017, , .		1
83	Notice of Removal: New insights in the role of reactive oxygen species in mechanisms of sonoporation: In-vitro validation and molecular dynamic simulations. , 2017, , .		1
84	Editorial: Bubbles, Droplets and Micelles for Acoustically-Mediated Drug/Gene Delivery. <i>Frontiers in Pharmacology</i> , 2020, 11, 954.	3.5	1
85	Electrotransfer of Plasmid DNA. , 2011, , 145-157.		1
86	Voluntary Wheel Running Does Not Enhance Radiotherapy Efficiency in a Preclinical Model of Prostate Cancer: The Importance of Physical Activity Modalities?. <i>Cancers</i> , 2021, 13, 5402.	3.7	1
87	R121 Å%electrochimiothÃ©rapie et Å©lectrogÃ©nothÃ©rapie sur sphÃ©roÃ©des comme modÃ©les de tumeurs. <i>Bulletin Du Cancer</i> , 2010, 97, S62.	1.6	0
88	Evaluation of doxorubicin-containing microbubbles for ultrasound-triggered delivery. , 2011, , .		0
89	Delivery of dopamine transporter tracer (PE2I) through blood brain barrier with ultrasound and microbubbles. , 2012, , .		0
90	Irinotecan delivery by microbubble-assisted ultrasound - A pilot preclinical study. , 2012, , .		0

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91	Effect of Electric Field Intensity on Plasmid DNA/Membrane Interaction during In-Vitro Gene Electrotransfer. Drug Delivery Letters, 2012, 2, 22-25.	0.5	0
92	Ultrastructural sonoporation bio-effects: Comparative study on two human cancer cell lines. , 2013, , .		0
93	Microscopic observations of sonoporation mechanisms. AIP Conference Proceedings, 2017, , .	0.4	0
94	Notice of Removal: Evaluation of the acoustic properties of clots during sonothrombolysis. , 2017, , .		0
95	In-vitro delivery of BLM into resistant cancer cell line using sonoporation with low-boiling point phase change ultrasound contrast agents. , 2017, , .		0
96	Quantitative ultrasound parameters in ex-vivo fibrotic rabbit livers: Liver stiffness and tissue microstructure estimation. , 2017, , .		0
97	Quantitative ultrasound parameters in ex-vivo fibrotic rabbit livers: Liver stiffness and tissue microstructure estimation. , 2017, , .		0
98	Comment on "The Enhancing Effect of Focused Ultrasound on TNK-Tissue Plasminogen Activator-Induced Thrombolysis using an In Vitro Circulating Flow Model" Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 2052.	1.6	0
99	Effect of Electric Field Intensity on Plasmid DNA/Membrane Interaction during In-Vitro Gene Electrotransfer. Drug Delivery Letters, 2012, 2, 22-25.	0.5	0
100	Editorial (Hot Topic: Cancer Imaging: Progress and Prospect). Current Molecular Imaging, 2013, 2, 2-2.	0.7	0