

Bostjan Markelec

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,701
citations

279798

23
h-index

302126

39
g-index

62
all docs

62
docs citations

62
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	Aspirin blocks formation of metastatic intravascular niches by inhibiting platelet-derived COX-1/thromboxane A2. <i>Journal of Clinical Investigation</i> , 2019, 129, 1845-1862.	8.2	136
2	Colorectal cancer liver metastatic growth depends on PAD4-driven citrullination of the extracellular matrix. <i>Nature Communications</i> , 2018, 9, 4783.	12.8	134
3	Type I IFN protects cancer cells from CD8+ T cell-mediated cytotoxicity after radiation. <i>Journal of Clinical Investigation</i> , 2019, 129, 4224-4238.	8.2	95
4	Neutrophils promote hepatic metastasis growth through fibroblast growth factor 2-dependent angiogenesis in mice. <i>Hepatology</i> , 2017, 65, 1920-1935.	7.3	92
5	Differential Mechanisms Associated with Vascular Disrupting Action of Electrochemotherapy: Intravital Microscopy on the Level of Single Normal and Tumor Blood Vessels. <i>PLoS ONE</i> , 2013, 8, e59557.	2.5	88
6	FGF2 alters macrophage polarization, tumour immunity and growth and can be targeted during radiotherapy. <i>Nature Communications</i> , 2020, 11, 4064.	12.8	76
7	Nitroxoline impairs tumor progression in vitro and in vivo by regulating cathepsin B activity. <i>Oncotarget</i> , 2015, 6, 19027-19042.	1.8	64
8	In Situ Monitoring of Electric Field Distribution in Mouse Tumor during Electroporation. <i>Radiology</i> , 2015, 274, 115-123.	7.3	63
9	Intravital microscopy at the single vessel level brings new insights of vascular modification mechanisms induced by electropermeabilization. <i>Journal of Controlled Release</i> , 2012, 163, 396-403.	9.9	61
10	Potential of electrochemotherapy by intramuscular IL-12 gene electrotransfer in murine sarcoma and carcinoma with different immunogenicity. <i>Radiology and Oncology</i> , 2012, 46, 302-311.	1.7	56
11	In vivo real-time monitoring system of electroporation mediated control of transdermal and topical drug delivery. <i>Journal of Controlled Release</i> , 2013, 172, 862-871.	9.9	55
12	Estimating oxygen distribution from vasculature in three-dimensional tumour tissue. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160070.	3.4	46
13	In Vivo Molecular Imaging and Histological Analysis of Changes Induced by Electric Pulses Used for Plasmid DNA Electrotransfer to the Skin: A Study in a Dorsal Window Chamber in Mice. <i>Journal of Membrane Biology</i> , 2012, 245, 545-554.	2.1	42
14	Increased permeability of blood vessels after reversible electroporation is facilitated by alterations in endothelial cell-to-cell junctions. <i>Journal of Controlled Release</i> , 2018, 276, 30-41.	9.9	41
15	Abnormal morphology biases hematocrit distribution in tumor vasculature and contributes to heterogeneity in tissue oxygenation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27811-27819.	7.1	40
16	Multiple Delivery of siRNA against Endoglin into Murine Mammary Adenocarcinoma Prevents Angiogenesis and Delays Tumor Growth. <i>PLoS ONE</i> , 2013, 8, e58723.	2.5	40
17	Multiple cytosolic DNA sensors bind plasmid DNA after transfection. <i>Nucleic Acids Research</i> , 2019, 47, 10235-10246.	14.5	36
18	MicroRNAs targeting mutant K-ras by electrotransfer inhibit human colorectal adenocarcinoma cell growth in vitro and in vivo. <i>Cancer Gene Therapy</i> , 2010, 17, 409-419.	4.6	33

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19	Intraoperative electrochemotherapy of colorectal liver metastases: A prospective phase II study. <i>European Journal of Surgical Oncology</i> , 2020, 46, 1628-1633.	1.0	30
20	Microvessel Chaste: An Open Library for Spatial Modeling of Vascularized Tissues. <i>Biophysical Journal</i> , 2017, 112, 1767-1772.	0.5	29
21	Mcam Silencing With RNA Interference Using Magnetofection has Antitumor Effect in Murine Melanoma. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e205.	5.1	28
22	Muscle gene electrotransfer is increased by the antioxidant tempol in mice. <i>Gene Therapy</i> , 2012, 19, 312-320.	4.5	26
23	Inhibitor of endocytosis impairs gene electrotransfer to mouse muscle in vivo. <i>Bioelectrochemistry</i> , 2015, 103, 111-119.	4.6	26
24	Potential of electrochemotherapy effectiveness by immunostimulation with IL-12 gene electrotransfer in mice is dependent on tumor immune status. <i>Journal of Controlled Release</i> , 2021, 332, 623-635.	9.9	25
25	Endoglin Silencing has Significant Antitumor Effect on Murine Mammary Adenocarcinoma Mediated by Vascular Targeted Effect. <i>Current Gene Therapy</i> , 2015, 15, 228-244.	2.0	25
26	Gene electrotransfer of plasmid AMEP, an integrin-targeted therapy, has antitumor and antiangiogenic action in murine B16 melanoma. <i>Gene Therapy</i> , 2015, 22, 578-590.	4.5	23
27	Reciprocal interactions between tumour cell populations enhance growth and reduce radiation sensitivity in prostate cancer. <i>Communications Biology</i> , 2021, 4, 6.	4.4	23
28	Predicting the Influence of Microvascular Structure On Tumor Response to Radiotherapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 504-511.	4.2	22
29	Segmentation of Vasculature From Fluorescently Labeled Endothelial Cells in Multi-Photon Microscopy Images. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1-10.	8.9	22
30	Pre-clinical investigation of the synergy effect of interleukin-12 gene-electro-transfer during partially irreversible electropermeabilization against melanoma. , 2019, 7, 161.		19
31	Biological Properties of Melanoma and Endothelial Cells after Plasmid AMEP Gene Electrotransfer Depend on Integrin Quantity on Cells. <i>Journal of Membrane Biology</i> , 2013, 246, 803-819.	2.1	17
32	Safe and efficient novel approach for non-invasive gene electrotransfer to skin. <i>Scientific Reports</i> , 2018, 8, 16833.	3.3	17
33	STING-Dependent Interferon- γ 1 Induction in HT29 Cells, a Human Colorectal Cancer Cell Line, After Gamma-Radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 97-106.	0.8	16
34	Modeling of Microvascular Permeability Changes after Electroporation. <i>PLoS ONE</i> , 2015, 10, e0121370.	2.5	16
35	Electroporation-Induced Stress Response and Its Effect on Gene Electrotransfer Efficacy: <i>In Vivo</i> Imaging and Numerical Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2671-2683.	4.2	15
36	Functional Parameters Derived from Magnetic Resonance Imaging Reflect Vascular Morphology in Preclinical Tumors and in Human Liver Metastases. <i>Clinical Cancer Research</i> , 2018, 24, 4694-4704.	7.0	14

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37	Radiation Induced Upregulation of DNA Sensing Pathways is Cell-Type Dependent and Can Mediate the Off-Target Effects. <i>Cancers</i> , 2020, 12, 3365.	3.7	12
38	Treatment of skin tumors with intratumoral interleukin 12 gene electrotransfer in the head and neck region: a first-in-human clinical trial protocol. <i>Radiology and Oncology</i> , 2022, 56, 398-408.	1.7	12
39	Multiscale topology characterizes dynamic tumor vascular networks. <i>Science Advances</i> , 2022, 8, .	10.3	12
40	PD1 blockade potentiates the therapeutic efficacy of photothermally-activated and MRI-guided low temperature-sensitive magnetoliposomes. <i>Journal of Controlled Release</i> , 2021, 332, 419-433.	9.9	11
41	Mutational burden, MHC-I expression and immune infiltration as limiting factors for in situ vaccination by TNF α and IL-12 gene electrotransfer. <i>Bioelectrochemistry</i> , 2021, 140, 107831.	4.6	8
42	Non-Clinical In Vitro Evaluation of Antibiotic Resistance Gene-Free Plasmids Encoding Human or Murine IL-12 Intended for First-in-Human Clinical Study. <i>Pharmaceutics</i> , 2021, 13, 1739.	4.5	8
43	In vitro and in vivo correlation of skin and cellular responses to nucleic acid delivery. <i>Biomedicine and Pharmacotherapy</i> , 2022, 150, 113088.	5.6	8
44	Sunitinib potentiates the cytotoxic effect of electrochemotherapy in pancreatic carcinoma cells. <i>Radiology and Oncology</i> , 2022, 56, 164-172.	1.7	6
45	Gene electrotransfer of proinflammatory chemokines CCL5 and CCL17 as a novel approach of modifying cytokine expression profile in the tumor microenvironment. <i>Bioelectrochemistry</i> , 2021, 140, 107795.	4.6	5
46	PARP inhibitor olaparib has a potential to increase the effectiveness of electrochemotherapy in BRCA1 mutated breast cancer in mice. <i>Bioelectrochemistry</i> , 2021, 140, 107832.	4.6	5
47	Effects of Reversible and Irreversible Electroporation on Endothelial Cells and Tissue Blood Flow. , 2017, , 607-620.		4
48	A lineage-tracing tool to map the fate of hypoxic tumour cells. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	4
49	Blood Flow Modifying and Vascular-Disrupting Effects of Electroporation and Electrochemotherapy. , 2017, , 691-705.		1
50	Image-Based Artefact Removal in Laser Scanning Microscopy. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 79-87.	4.2	1
51	R142: Modèle de chambre dorsale pour l'analyse des modifications induites par l'électroporation sur les vaisseaux sanguins. <i>Bulletin Du Cancer</i> , 2010, 97, S72-S73.	1.6	0
52	Schedule-dependent interaction between vinblastine and irradiation in experimental sarcoma. <i>Strahlentherapie Und Onkologie</i> , 2014, 190, 661-666.	2.0	0
53	SP-0556 Tracing Tumor Hypoxia. <i>Radiotherapy and Oncology</i> , 2019, 133, S292.	0.6	0
54	Abstract 5119: Mechanisms associated with blood flow modifying effects of electric pulses used for electrochemotherapy on normal and tumor blood vessels. , 2015, , .		0

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55	Blood Flow Modifying and Vascular-Disrupting Effects of Electroporation and Electrochemotherapy. , 2016, , 1-15.		0
56	Effects of Reversible and Irreversible Electroporation on Endothelial Cells and Tissue Blood Flow. , 2016, , 1-14.		0