

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
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62
all docs

62
docs citations

62
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	Sunitinib potentiates the cytotoxic effect of electrochemotherapy in pancreatic carcinoma cells. <i>Radiology and Oncology</i> , 2022, 56, 164-172.	1.7	6
2	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
3	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
4	Multiscale topology characterizes dynamic tumor vascular networks. <i>Science Advances</i> , 2022, 8, .	10.3	12
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Image-Based Artefact Removal in Laser Scanning Microscopy. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 79-87.	4.2	1
13	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
14	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
15	FGF2 alters macrophage polarization, tumour immunity and growth and can be targeted during radiotherapy. <i>Nature Communications</i> , 2020, 11, 4064.	12.8	76
16	A lineage-tracing tool to map the fate of hypoxic tumour cells. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	4
17	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
18	Pre-clinical investigation of the synergy effect of interleukin-12 gene-electro-transfer during partially irreversible electroporation against melanoma. , 2019, 7, 161.		19

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19	Multiple cytosolic DNA sensors bind plasmid DNA after transfection. <i>Nucleic Acids Research</i> , 2019, 47, 10235-10246.	14.5	36
20	SP-0556 Tracing Tumor Hypoxia. <i>Radiotherapy and Oncology</i> , 2019, 133, S292.	0.6	0
21	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
22	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
23	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
24	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
25	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
26	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
27	Colorectal cancer liver metastatic growth depends on PAD4-driven citrullination of the extracellular matrix. <i>Nature Communications</i> , 2018, 9, 4783.	12.8	134
28	Safe and efficient novel approach for non-invasive gene electrotransfer to skin. <i>Scientific Reports</i> , 2018, 8, 16833.	3.3	17
29	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
30	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
31	Neutrophils promote hepatic metastasis growth through fibroblast growth factor 2-dependent angiogenesis in mice. <i>Hepatology</i> , 2017, 65, 1920-1935.	7.3	92
32	Blood Flow Modifying and Vascular-Disrupting Effects of Electroporation and Electrochemotherapy. , 2017, , 691-705.		1
33	Effects of Reversible and Irreversible Electroporation on Endothelial Cells and Tissue Blood Flow. , 2017, , 607-620.		4
34	Microvessel Chaste: An Open Library for Spatial Modeling of Vascularized Tissues. <i>Biophysical Journal</i> , 2017, 112, 1767-1772.	0.5	29
35	Estimating oxygen distribution from vasculature in three-dimensional tumour tissue. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160070.	3.4	46
36	Blood Flow Modifying and Vascular-Disrupting Effects of Electroporation and Electrochemotherapy. , 2016, , 1-15.		0

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37	Effects of Reversible and Irreversible Electroporation on Endothelial Cells and Tissue Blood Flow. , 2016, , 1-14.		0
38	Inhibitor of endocytosis impairs gene electrotransfer to mouse muscle in vivo. Bioelectrochemistry, 2015, 103, 111-119.	4.6	26
39	Gene electrotransfer of plasmid AMEP, an integrin-targeted therapy, has antitumor and antiangiogenic action in murine B16 melanoma. Gene Therapy, 2015, 22, 578-590.	4.5	23
40	In Situ Monitoring of Electric Field Distribution in Mouse Tumor during Electroporation. Radiology, 2015, 274, 115-123.	7.3	63
41	Modeling of Microvascular Permeability Changes after Electroporation. PLoS ONE, 2015, 10, e0121370.	2.5	16
42	Nitroxoline impairs tumor progression in vitro and in vivo by regulating cathepsin B activity. Oncotarget, 2015, 6, 19027-19042.	1.8	64
43	Endoglin Silencing has Significant Antitumor Effect on Murine Mammary Adenocarcinoma Mediated by Vascular Targeted Effect. Current Gene Therapy, 2015, 15, 228-244.	2.0	25
44	Abstract 5119: Mechanisms associated with blood flow modifying effects of electric pulses used for electrochemotherapy on normal and tumor blood vessels. , 2015, , .		0
45	Mcam Silencing With RNA Interference Using Magnetofection has Antitumor Effect in Murine Melanoma. Molecular Therapy - Nucleic Acids, 2014, 3, e205.	5.1	28
46	Schedule-dependent interaction between vinblastine and irradiation in experimental sarcoma. Strahlentherapie Und Onkologie, 2014, 190, 661-666.	2.0	0
47	Biological Properties of Melanoma and Endothelial Cells after Plasmid AMEP Gene Electrotransfer Depend on Integrin Quantity on Cells. Journal of Membrane Biology, 2013, 246, 803-819.	2.1	17
48	In vivo real-time monitoring system of electroporation mediated control of transdermal and topical drug delivery. Journal of Controlled Release, 2013, 172, 862-871.	9.9	55
49	Differential Mechanisms Associated with Vascular Disrupting Action of Electrochemotherapy: Intravital Microscopy on the Level of Single Normal and Tumor Blood Vessels. PLoS ONE, 2013, 8, e59557.	2.5	88
50	Multiple Delivery of siRNA against Endoglin into Murine Mammary Adenocarcinoma Prevents Angiogenesis and Delays Tumor Growth. PLoS ONE, 2013, 8, e58723.	2.5	40
51	Muscle gene electrotransfer is increased by the antioxidant tempol in mice. Gene Therapy, 2012, 19, 312-320.	4.5	26
52	Potential of electrochemotherapy by intramuscular IL-12 gene electrotransfer in murine sarcoma and carcinoma with different immunogenicity. Radiology and Oncology, 2012, 46, 302-311.	1.7	56
53	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. Journal of Membrane Biology, 2012, 245, 545-554.	2.1	42
54	Intravital microscopy at the single vessel level brings new insights of vascular modification mechanisms induced by electropermeabilization. Journal of Controlled Release, 2012, 163, 396-403.	9.9	61

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55	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
56	R142: ModÃ©le de chambre dorsale pour lâ€™analyse des modifications induites par lâ€™Ã©lectropermÃ©abilisation sur les vaisseaux sanguins. <i>Bulletin Du Cancer</i> , 2010, 97, S72-S73.	1.6	0