

Erkki Ruoslahti

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

12,380
citations

41344

49
h-index

79698

73
g-index

77
all docs

77
docs citations

77
times ranked

13887
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue-Penetrating Delivery of Compounds and Nanoparticles into Tumors. <i>Cancer Cell</i> , 2009, 16, 510-520.	16.8	967
2	Coadministration of a Tumor-Penetrating Peptide Enhances the Efficacy of Cancer Drugs. <i>Science</i> , 2010, 328, 1031-1035.	12.6	926
3	Anti-cancer activity of targeted pro-apoptotic peptides. <i>Nature Medicine</i> , 1999, 5, 1032-1038.	30.7	866
4	Targeting of drugs and nanoparticles to tumors. <i>Journal of Cell Biology</i> , 2010, 188, 759-768.	5.2	770
5	C-end rule peptides mediate neuropilin-1-dependent cell, vascular, and tissue penetration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16157-16162.	7.1	674
6	Magnetic Iron Oxide Nanoworms for Tumor Targeting and Imaging. <i>Advanced Materials</i> , 2008, 20, 1630-1635.	21.0	516
7	A tumor-homing peptide with a targeting specificity related to lymphatic vessels. <i>Nature Medicine</i> , 2002, 8, 751-755.	30.7	447
8	Biomimetic amplification of nanoparticle homing to tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 932-936.	7.1	434
9	Peptides as Targeting Elements and Tissue Penetration Devices for Nanoparticles. <i>Advanced Materials</i> , 2012, 24, 3747-3756.	21.0	353
10	Tumor penetrating peptides for improved drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2017, 110-111, 3-12.	18.7	322
11	Targeted nanoparticle enhanced proapoptotic peptide as potential therapy for glioblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17450-17455.	7.1	320
12	Mitochondrial/Cell-Surface Protein p32/gC1qR as a Molecular Target in Tumor Cells and Tumor Stroma. <i>Cancer Research</i> , 2008, 68, 7210-7218.	0.9	308
13	Targeting the prostate for destruction through a vascular address. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1527-1531.	7.1	282
14	Isolation of High-Affinity Peptide Antagonists of 14-3-3 Proteins by Phage Display. <i>Biochemistry</i> , 1999, 38, 12499-12504.	2.5	279
15	Antibiotic-loaded nanoparticles targeted to the site of infection enhance antibacterial efficacy. <i>Nature Biomedical Engineering</i> , 2018, 2, 95-103.	22.5	278
16	Systematic Surface Engineering of Magnetic Nanoworms for In vivo Tumor Targeting. <i>Small</i> , 2009, 5, 694-700.	10.0	263
17	Antitumor activity of a homing peptide that targets tumor lymphatics and tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9381-9386.	7.1	259
18	Stage-specific vascular markers revealed by phage display in a mouse model of pancreatic islet tumorigenesis. <i>Cancer Cell</i> , 2003, 4, 393-403.	16.8	232

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19	Targeting of albumin-embedded paclitaxel nanoparticles to tumors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009, 5, 73-82.	3.3	202
20	New Insights into "Permeability" as in the Enhanced Permeability and Retention Effect of Cancer Nanotherapeutics. <i>ACS Nano</i> , 2017, 11, 9567-9569.	14.6	199
21	An endocytosis pathway initiated through neuropilin-1 and regulated by nutrient availability. <i>Nature Communications</i> , 2014, 5, 4904.	12.8	156
22	Etchable plasmonic nanoparticle probes to image and quantify cellular internalization. <i>Nature Materials</i> , 2014, 13, 904-911.	27.5	156
23	Nanoparticle-induced vascular blockade in human prostate cancer. <i>Blood</i> , 2010, 116, 2847-2856.	1.4	149
24	Systemic brain tumor delivery of synthetic protein nanoparticles for glioblastoma therapy. <i>Nature Communications</i> , 2020, 11, 5687.	12.8	142
25	A peptide for targeted, systemic delivery of imaging and therapeutic compounds into acute brain injuries. <i>Nature Communications</i> , 2016, 7, 11980.	12.8	138
26	Immunogene therapy with fusogenic nanoparticles modulates macrophage response to <i>Staphylococcus aureus</i> . <i>Nature Communications</i> , 2018, 9, 1969.	12.8	132
27	Precision Targeting of Tumor Macrophages with a CD206 Binding Peptide. <i>Scientific Reports</i> , 2017, 7, 14655.	3.3	125
28	iRGD peptide conjugation potentiates intraperitoneal tumor delivery of paclitaxel with polymersomes. <i>Biomaterials</i> , 2016, 104, 247-257.	11.4	123
29	Self-Sealing Porous Silicon-Calcium Silicate Core-Shell Nanoparticles for Targeted siRNA Delivery to the Injured Brain. <i>Advanced Materials</i> , 2016, 28, 7962-7969.	21.0	123
30	Tumor-homing peptides as tools for targeted delivery of payloads to the placenta. <i>Science Advances</i> , 2016, 2, e1600349.	10.3	119
31	Gated Luminescence Imaging of Silicon Nanoparticles. <i>ACS Nano</i> , 2015, 9, 6233-6241.	14.6	114
32	Tumor-Penetrating iRGD Peptide Inhibits Metastasis. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 120-128.	4.1	99
33	Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of <i>Pseudomonas aeruginosa</i> Lung Infections. <i>Advanced Materials</i> , 2017, 29, 1701527.	21.0	82
34	Tumor-Penetrating Nanosystem Strongly Suppresses Breast Tumor Growth. <i>Nano Letters</i> , 2017, 17, 1356-1364.	9.1	79
35	Selective Targeting of a Novel Vasodilator to the Uterine Vasculature to Treat Impaired Uteroplacental Perfusion in Pregnancy. <i>Theranostics</i> , 2017, 7, 3715-3731.	10.0	76
36	New p32/gC1qR Ligands for Targeted Tumor Drug Delivery. <i>ChemBioChem</i> , 2016, 17, 570-575.	2.6	75

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37	Proapoptotic Peptide-Mediated Cancer Therapy Targeted to Cell Surface p32. <i>Molecular Therapy</i> , 2013, 21, 2195-2204.	8.2	74
38	Nanoparticles coated with the tumor-penetrating peptide iRGD reduce experimental breast cancer metastasis in the brain. <i>Journal of Molecular Medicine</i> , 2015, 93, 991-1001.	3.9	73
39	Securing the Payload, Finding the Cell, and Avoiding the Endosome: Peptide-Targeted, Fusogenic Porous Silicon Nanoparticles for Delivery of siRNA. <i>Advanced Materials</i> , 2019, 31, e1902952.	21.0	73
40	Composite Porous Silicon-Silver Nanoparticles as Theranostic Antibacterial Agents. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30449-30457.	8.0	70
41	Neuropilin-1 and heparan sulfate proteoglycans cooperate in cellular uptake of nanoparticles functionalized by cationic cell-penetrating peptides. <i>Science Advances</i> , 2015, 1, e1500821.	10.3	68
42	Paclitaxel-Loaded Polymersomes for Enhanced Intraperitoneal Chemotherapy. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 670-679.	4.1	68
43	A tumor-penetrating peptide enhances circulation-independent targeting of peritoneal carcinomatosis. <i>Journal of Controlled Release</i> , 2015, 212, 59-69.	9.9	62
44	Peptide-guided nanoparticles for glioblastoma targeting. <i>Journal of Controlled Release</i> , 2019, 308, 109-118.	9.9	60
45	Tumor-Targeting, MicroRNA-Silencing Porous Silicon Nanoparticles for Ovarian Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23926-23937.	8.0	59
46	Targeting of p32 in peritoneal carcinomatosis with intraperitoneal linTT1 peptide-guided pro-apoptotic nanoparticles. <i>Journal of Controlled Release</i> , 2017, 260, 142-153.	9.9	57
47	A free cysteine prolongs the half-life of a homing peptide and improves its tumor-penetrating activity. <i>Journal of Controlled Release</i> , 2014, 175, 48-53.	9.9	56
48	In vivo cation exchange in quantum dots for tumor-specific imaging. <i>Nature Communications</i> , 2017, 8, 343.	12.8	56
49	Identification of a peptide recognizing cerebrovascular changes in mouse models of Alzheimer's disease. <i>Nature Communications</i> , 2017, 8, 1403.	12.8	54
50	A Novel Vascular Homing Peptide Strategy to Selectively Enhance Pulmonary Drug Efficacy in Pulmonary Arterial Hypertension. <i>American Journal of Pathology</i> , 2014, 184, 369-375.	3.8	46
51	Urokinase-controlled tumor penetrating peptide. <i>Journal of Controlled Release</i> , 2016, 232, 188-195.	9.9	46
52	Generation of a multi-functional, target organ-specific, anti-fibrotic molecule by molecular engineering of the extracellular matrix protein, decorin. <i>British Journal of Pharmacology</i> , 2019, 176, 16-25.	5.4	39
53	Tumor-specific macrophage targeting through recognition of retinoid X receptor beta. <i>Journal of Controlled Release</i> , 2019, 301, 42-53.	9.9	36
54	Tracking the Fate of Porous Silicon Nanoparticles Delivering a Peptide Payload by Intrinsic Photoluminescence Lifetime. <i>Advanced Materials</i> , 2018, 30, e1802878.	21.0	35

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55	Targeted Antiscarring Therapy for Tissue Injuries. <i>Advances in Wound Care</i> , 2013, 2, 50-54.	5.1	34
56	Quantity and accessibility for specific targeting of receptors in tumours. <i>Scientific Reports</i> , 2014, 4, 5232.	3.3	33
57	Targeted silver nanoparticles for ratiometric cell phenotyping. <i>Nanoscale</i> , 2016, 8, 9096-9101.	5.6	33
58	Synthesis of linear and cyclic peptide-PEG-lipids for stabilization and targeting of cationic liposome-DNA complexes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1618-1623.	2.2	32
59	iRGD-Liposomes Enhance Tumor Delivery and Therapeutic Efficacy of Antisense Oligonucleotide Drugs against Primary Prostate Cancer and Bone Metastasis. <i>Advanced Functional Materials</i> , 2021, 31, 2100478.	14.9	32
60	Reprogramming Human Retinal Pigmented Epithelial Cells to Neurons Using Recombinant Proteins. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1526-1534.	3.3	31
61	Selection strategies for anticancer antibody discovery: searching off the beaten path. <i>Trends in Biotechnology</i> , 2015, 33, 292-301.	9.3	29
62	Immune-mediated ECM depletion improves tumour perfusion and payload delivery. <i>EMBO Molecular Medicine</i> , 2019, 11, e10923.	6.9	23
63	Plaque-penetrating peptide inhibits development of hypoxic atherosclerotic plaque. <i>Journal of Controlled Release</i> , 2016, 238, 212-220.	9.9	19
64	Clot-Targeted Micellar Formulation Improves Anticoagulation Efficacy of Bivalirudin. <i>ACS Nano</i> , 2014, 8, 10139-10149.	14.6	14
65	Silver Nanocarriers Targeted with a CendR Peptide Potentiate the Cytotoxic Activity of an Anticancer Drug. <i>Advanced Therapeutics</i> , 2021, 4, 2000097.	3.2	9
66	Vascular changes in tumors resistant to a vascular disrupting nanoparticle treatment. <i>Journal of Controlled Release</i> , 2017, 268, 49-56.	9.9	7
67	Molecular ZIP codes in targeted drug delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	7
68	Increasing Tumor Accessibility with Conjugatable Disulfide-Bridged Tumor-Penetrating Peptides for Cancer Diagnosis and Treatment. <i>Breast Cancer: Basic and Clinical Research</i> , 2015, 9s2, BCBCR.S29426.	1.1	3
69	Silicon Nanoparticles: Porous Silicon Nanoparticle Delivery of Tandem Peptide Anti-Infectives for the Treatment of <i>Pseudomonas aeruginosa</i> Lung Infections (<i>Adv. Mater.</i> 35/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	2
70	iRGD in combination with IL-2 reprograms tumor immunosuppression.. <i>Journal of Clinical Oncology</i> , 2019, 37, 55-55.	1.6	2
71	DEPLETION OF TUMOR-ASSOCIATED MACROPHAGES WITH CLODRONATE-LOADED PLGA NANOPARTICLES. <i>Nano LIFE</i> , 2013, 03, 1343005.	0.9	1
72	Drug delivery: Magnetic Luminescent Porous Silicon Microparticles for Localized Delivery of Molecular Drug Payloads (<i>Small</i> 22/2010). <i>Small</i> , 2010, 6, 2545-2545.	10.0	0