Rainer H Kohler

List of Publications by Citations

38 papers	3,204 citations	23 h-index	43 g-index
43 ext. papers	4,122 ext. citations	15.3 avg, IF	5.12 L-index

#	Paper	IF	Citations
38	TLR7/8-agonist-loaded nanoparticles promote the polarization of tumour-associated macrophages to enhance cancer immunotherapy. *Nature Biomedical Engineering*, **2018**, 2, 578-588	19	435
37	Successful Anti-PD-1 Cancer Immunotherapy Requires T Cell-Dendritic Cell Crosstalk Involving the Cytokines IFN-γ and IL-12. *Immunity*, **2018**, 49, 1148-1161.e7	32.3	352
36	In vivo imaging reveals a tumor-associated macrophage-mediated resistance pathway in anti-PD-1 therapy. *Science Translational Medicine*, **2017**, 9,	17.5	331
35	Tumour-associated macrophages act as a slow-release reservoir of nano-therapeutic Pt(IV) pro-drug. *Nature Communications*, **2015**, 6, 8692	17.4	281
34	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. *Science Translational Medicine*, **2015**, 7, 314ra183	17.5	225
33	IRF3 and type I interferons fuel a fatal response to myocardial infarction. *Nature Medicine*, **2017**, 23, 1481-1487	30.5	208
32	Single-cell and subcellular pharmacokinetic imaging allows insight into drug action in vivo. *Nature Communications*, **2013**, 4, 1504	17.4	153
31	Nano-palladium is a cellular catalyst for in vivo chemistry. *Nature Communications*, **2017**, 8, 15906	17.4	144
30	Radiation therapy primes tumors for nanotherapeutic delivery via macrophage-mediated vascular bursts. *Science Translational Medicine*, **2017**, 9,	17.5	132
29	Analysis of mitosis and antimitotic drug responses in tumors by in vivo microscopy and single-cell pharmacodynamics. *Cancer Research*, **2011**, 71, 4608-16	10.1	122
28	Arg1 expression defines immunosuppressive subsets of tumor-associated macrophages. *Theranostics*, **2018**, 8, 5842-5854	12.1	96
27	Quantitative Imaging of Tumor-Associated Macrophages and Their Response to Therapy Using Cu-Labeled Macrin. *ACS Nano*, **2018**, 12, 12015-12029	16.7	83
26	In vivo cell-cycle profiling in xenograft tumors by quantitative intravital microscopy. *Nature Methods*, **2015**, 12, 577-85	21.6	67
25	Population dynamics of islet-infiltrating cells in autoimmune diabetes. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 1511-6	11.5	61
24	Ultrafluorogenic Coumarin–Tetrazine Probes for Real-Time Biological Imaging. *Angewandte Chemie*, **2014**, 126, 7661-7664	3.6	55
23	Single-cell pharmacokinetic imaging reveals a therapeutic strategy to overcome drug resistance to the microtubule inhibitor eribulin. *Science Translational Medicine*, **2014**, 6, 261ra152	17.5	54
22	Modular Nanoparticulate Prodrug Design Enables Efficient Treatment of Solid Tumors Using Bioorthogonal Activation. *ACS Nano*, **2018**, 12, 12814-12826	16.7	47

21	Platinum compounds for high-resolution in vivo cancer imaging. *ChemMedChem*, **2014**, 9, 1131-5	3.7	46
20	Optimized Near-IR Fluorescent Agents for in Vivo Imaging of Btk Expression. *Bioconjugate Chemistry*, **2015**, 26, 1513-8	6.3	40
19	Single cell resolution in vivo imaging of DNA damage following PARP inhibition. *Scientific Reports*, **2015**, 5, 10129	4.9	34
18	Imaging the emergence and natural progression of spontaneous autoimmune diabetes. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7776-E7785	11.5	31
17	Receptor-Driven ERK Pulses Reconfigure MAPK Signaling and Enable Persistence of Drug-Adapted BRAF-Mutant Melanoma Cells. *Cell Systems*, **2020**, 11, 478-494.e9	10.6	29
16	Single cell imaging of Bruton\'s tyrosine kinase using an irreversible inhibitor. *Scientific Reports*, **2014**, 4, 4782	4.9	28
15	Near infrared imaging of Mer tyrosine kinase (MERTK) using MERi-SiR reveals tumor associated macrophage uptake in metastatic disease. *Chemical Communications*, **2017**, 54, 42-45	5.8	19
14	Therapeutically reprogrammed nutrient signalling enhances nanoparticulate albumin bound drug uptake and efficacy in KRAS-mutant cancer. *Nature Nanotechnology*, **2021**, 16, 830-839	28.7	15
13	Design and Development of Fluorescent Vemurafenib Analogs for Imaging. *Theranostics*, **2017**, 7, 1257-1265	12.5	14
12	Efficient blockade of locally reciprocated tumor-macrophage signaling using a TAM-avid nanotherapy. *Science Advances*, **2020**, 6, eaaz8521	14.3	14
11	A Supramolecular Nanocarrier for Delivery of Amiodarone Anti-Arrhythmic Therapy to the Heart. *Bioconjugate Chemistry*, **2019**, 30, 733-740	6.3	14
10	A photoactivatable drug-caged fluorophore conjugate allows direct quantification of intracellular drug transport. *Chemical Communications*, **2013**, 49, 11050-11052	5.8	13
9	Fluorescent vinblastine probes for live cell imaging. *Chemical Communications*, **2016**, 52, 9953-6	5.8	9
8	LTX-315 sequentially promotes lymphocyte-independent and lymphocyte-dependent antitumor effects. *Cell Stress*, **2019**, 3, 348-360	5.5	9
7	Resident Kupffer cells and neutrophils drive liver toxicity in cancer immunotherapy. *Science Immunology*, **2021**, 6,	28	9
6	Myeloid Cell-Targeted Nanocarriers Efficiently Inhibit Cellular Inhibitor of Apoptosis for Cancer Immunotherapy. *Cell Chemical Biology*, **2020**, 27, 94-104.e5	8.2	8
5	Detecting Immune Response to Therapies Targeting PDL1 and BRAF by Using Ferumoxytol MRI and Macrin in Anaplastic Thyroid Cancer. *Radiology*, **2021**, 298, 123-132	20.5	8
4	Imaging of Tie2 with a Fluorescently Labeled Small Molecule Affinity Ligand. *ACS Chemical Biology*, **2020**, 15, 151-157	4.9	4

3	In vivo microscopy reveals macrophage polarization locally promotes coherent microtubule dynamics in migrating cancer cells. *Nature Communications*, **2020**, 11, 3521	17.4	4
2	Overcoming differential tumor penetration of BRAF inhibitors using computationally guided combination therapy.. *Science Advances*, **2022**, 8, eabl6339	14.3	2
1	SMALL MOLECULE IMAGING AGENT FOR MUTANT KRAS G12C. *Advanced Therapeutics*, **2021**, 4, 2000290	4.9	1