Fabian Kiessling

List of Publications by Year in Descending Order

349 papers	20,497 citations	73 h-index	132 g-index
387 ext. papers	24,129 ext. citations	9.6 avg, IF	7.15 L-index

#	Paper	IF	Citations
349	Influence of the Computer-Aided Decision Support System Design on Ultrasound-Based Breast Cancer Classification.. *Cancers*, **2022**, 14,	6.6	4
348	Tuning the size of all-HPMA polymeric micelles fabricated by solvent extraction.. *Journal of Controlled Release*, **2022**, 343, 338-346	11.7	0
347	Monitoring EPR Effect Dynamics during Nanotaxane Treatment with Theranostic Polymeric Micelles.. *Advanced Science*, **2022**, e2103745	13.6	4
346	Monitoring the Remodeling of Biohybrid Tissue-Engineered Vascular Grafts by Multimodal Molecular Imaging.. *Advanced Science*, **2022**, e2105783	13.6	4
345	Metallodrugs in cancer nanomedicine.. *Chemical Society Reviews*, **2022**,	58.5	10
344	Theranostic Trigger-Responsive Carbon Monoxide-Generating Microbubbles.. *Small*, **2022**, e2200924	11	0
343	PET-CT Imaging of Polymeric Nanoparticle Tumor Accumulation in Patients.. *Advanced Materials*, **2022**, e2201043	24	0
342	Liver Fibrosis-From Mechanisms of Injury to Modulation of Disease.. *Frontiers in Medicine*, **2021**, 8, 814496	4.9	0
341	Development of a Systematic Review Protocol and a Scoping Review of Ultrasound-Induced Immune Effects in Peripheral Tumors. *Molecular Imaging and Biology*, **2021**, 1	3.8	0
340	Effects of contrast-enhanced ultrasound treatment on neoadjuvant chemotherapy in breast cancer. *Theranostics*, **2021**, 11, 9557-9570	12.1	2
339	Tuning the optical properties of BODIPY dyes by N-rich heterocycle conjugation using a combined synthesis and computational approach. *New Journal of Chemistry*, **2021**, 45, 19641-19645	3.6	1
338	Change of Apoptosis and Glucose Metabolism in Lung Cancer Xenografts during Cytotoxic and Anti-Angiogenic Therapy Assessed by Annexin V Based Optical Imaging and F-FDG-PET/CT. *Contrast Media and Molecular Imaging*, **2021**, 2021, 6676337	3.2	1
337	Aktivierung der katalytischen Aktivit von Thrombin f die Bildung von Fibrin durch Ultraschall. *Angewandte Chemie*, **2021**, 133, 14829-14836	3.6	1
336	Cyclic Arginine Glycine Aspartate-Decorated Lipid Nanoparticle Targeting toward Inflammatory Lesions Involves Hitchhiking with Phagocytes. *Advanced Science*, **2021**, 8, 2100370	13.6	1
335	Activation of the Catalytic Activity of Thrombin for Fibrin Formation by Ultrasound. *Angewandte Chemie - International Edition*, **2021**, 60, 14707-14714	16.4	12
334	From Design to Clinic: Engineered Nanobiomaterials for Immune Normalization Therapy of Cancer. *Advanced Materials*, **2021**, 33, e2008094	24	16
333	Non-invasive molecular imaging of kidney diseases. *Nature Reviews Nephrology*, **2021**, 17, 688-703	14.9	4

332	A paradigm shift in cancer nanomedicine: from traditional tumor targeting to leveraging the immune system. *Drug Discovery Today*, **2021**, 26, 1482-1489	8.8	5
331	Automation of data analysis in molecular cancer imaging and its potential impact on future clinical practice. *Methods*, **2021**, 188, 30-36	4.6	4
330	electron-stabilized polymeric micelles potentiate docetaxel therapy in advanced-stage gastrointestinal cancer. *Biomaterials*, **2021**, 266, 120432	15.6	19
329	Flow velocity quantification by exploiting the principles of the Doppler effect and magnetic particle imaging. *Scientific Reports*, **2021**, 11, 4529	4.9	1
328	An Anatomical Thermal 3D Model in Preclinical Research: Combining CT and Thermal Images. *Sensors*, **2021**, 21,	3.8	3
327	Lyophilization stabilizes clinical-stage core-crosslinked polymeric micelles to overcome cold chain supply challenges. *Biotechnology Journal*, **2021**, 16, e2000212	5.6	5
326	Mixing Matrix-corrected Whole-body Pharmacokinetic Modeling Using Longitudinal Micro-computed Tomography and Fluorescence-mediated Tomography. *Molecular Imaging and Biology*, **2021**, 23, 963-974	3.8	
325	Advancing diagnostic performance and clinical usability of neural networks via adversarial training and dual batch normalization. *Nature Communications*, **2021**, 12, 4315	17.4	0
324	Molecular magnetic resonance imaging of Alpha-v-Beta-3 integrin expression in tumors with ultrasound microbubbles. *Biomaterials*, **2021**, 275, 120896	15.6	5
323	Experimental and Computational Study on the Microfluidic Control of Micellar Nanocarrier Properties. *ACS Omega*, **2021**, 6, 23117-23128	3.9	2
322	Therapeutic and diagnostic targeting of fibrosis in metabolic, proliferative and viral disorders. *Advanced Drug Delivery Reviews*, **2021**, 175, 113831	18.5	4
321	Regorafenib enhances anti-PD1 immunotherapy efficacy in murine colorectal cancers and their combination prevents tumor regrowth. *Journal of Experimental and Clinical Cancer Research*, **2021**, 40, 288	12.8	8
320	New Aspects of Kidney Fibrosis-From Mechanisms of Injury to Modulation of Disease.. *Frontiers in Medicine*, **2021**, 8, 814497	4.9	0
319	Sensing Reactive Oxygen Species with Photoacoustic Imaging Using Conjugation-Extended BODIPYs.. *ACS Sensors*, **2021**, 6, 4379-4388	9.2	4
318	Breaking medical data sharing boundaries by using synthesized radiographs. *Science Advances*, **2020**, 6,	14.3	5
317	Implementation of eHealth and AI integrated diagnostics with multidisciplinary digitized data: are we ready from an international perspective?. *European Radiology*, **2020**, 30, 5510-5524	8	10
316	Lipid-encapsulated siRNA for hepatocyte-directed treatment of advanced liver disease. *Cell Death and Disease*, **2020**, 11, 343	9.8	7
315	Cell barrier characterization in transwell inserts by electrical impedance spectroscopy. *Biosensors and Bioelectronics*, **2020**, 165, 112345	11.8	13

314	Potent and Prolonged Innate Immune Activation by Enzyme-Responsive Imidazoquinoline TLR7/8 Agonist Prodrug Vesicles. *Journal of the American Chemical Society*, **2020**, 142, 12133-12139	16.4	21
313	What scans we will read: imaging instrumentation trends in clinical oncology. *Cancer Imaging*, **2020**, 20, 38	5.6	9
312	Photoacoustic Imaging: Tuning Optical Properties of BODIPY Dyes by Pyrrole Conjugation for Photoacoustic Imaging (Advanced Optical Materials 11/2020). *Advanced Optical Materials*, **2020**, 8, 2070046	8.1	3
311	Cancer nanomedicine meets immunotherapy: opportunities and challenges. *Acta Pharmacologica Sinica*, **2020**, 41, 954-958	8	14
310	A Doxorubicin-Glucuronide Prodrug Released from Nanogels Activated by High-Intensity Focused Ultrasound Liberated β-Glucuronidase. *Pharmaceutics*, **2020**, 12,	6.4	1
309	Challenges in nanomedicine clinical translation. *Drug Delivery and Translational Research*, **2020**, 10, 721-748	6.5	60
308	The success of nanomedicine. *Nano Today*, **2020**, 31, 100853-100853	17.9	39
307	Drug Loading in Poly(butyl cyanoacrylate)-Based Polymeric Microbubbles. *Molecular Pharmaceutics*, **2020**, 17, 2840-2848	5.6	5
306	Lumenal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity. *PLoS ONE*, **2020**, 15, e0228503	3.7	21
305	Super-resolution Ultrasound Imaging. *Ultrasound in Medicine and Biology*, **2020**, 46, 865-891	3.5	83
304	Atropisomers of meso Tetra(N-Mesyl Pyrrol-2-yl) Porphyrins: Synthesis, Isolation and Characterization of All-Pyrrolic Porphyrins. *Chemistry - A European Journal*, **2020**, 26, 4232-4235	4.8	2
303	Size-isolation of superparamagnetic iron oxide nanoparticles improves MRI, MPI and hyperthermia performance. *Journal of Nanobiotechnology*, **2020**, 18, 22	9.4	59
302	Multimodal and multiscale optical imaging of nanomedicine delivery across the blood-brain barrier upon sonopermeation. *Theranostics*, **2020**, 10, 1948-1959	12.1	14
301	Photoacoustic Imaging Probes Based on Tetrapyrroles and Related Compounds. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	10
300	Tuning Optical Properties of BODIPY Dyes by Pyrrole Conjugation for Photoacoustic Imaging. *Advanced Optical Materials*, **2020**, 8, 1902115	8.1	10
299	Polymeric Nanoparticles with Neglectable Protein Corona. *Small*, **2020**, 16, e1907574	11	49
298	Riboflavin-Targeted Drug Delivery. *Cancers*, **2020**, 12,	6.6	20
297	Molecular Ultrasound Imaging. *Recent Results in Cancer Research*, **2020**, 216, 509-531	1.5	5

296	Emerging methods in radiology. *Der Radiologe*, **2020**, 60, 41-53	1.5	1
295	Performance of severity parameters to detect chemotherapy-induced pain and distress in mice. *Laboratory Animals*, **2020**, 54, 452-460	2.6	4
294	Imaging-assisted anticancer nanotherapy. *Theranostics*, **2020**, 10, 956-967	12.1	22
293	High-resolution 3D visualization of nanomedicine distribution in tumors. *Theranostics*, **2020**, 10, 880-897	12.1	7
292	Disturbed gut microbiota and bile homeostasis in -infected mice contributes to metabolic dysregulation and growth impairment. *Science Translational Medicine*, **2020**, 12,	17.5	12
291	Molecular Ultrasound Imaging. *Nanomaterials*, **2020**, 10,	5.4	15
290	Optical imaging of the whole-body to cellular biodistribution of clinical-stage PEG-b-pHPMA-based core-crosslinked polymeric micelles. *Journal of Controlled Release*, **2020**, 328, 805-816	11.7	14
289	Influence of Riboflavin Targeting on Tumor Accumulation and Internalization of Peptostar Based Drug Delivery Systems. *Bioconjugate Chemistry*, **2020**, 31, 2691-2696	6.3	4
288	Just dose it. *Nature Materials*, **2020**, 19, 1257-1258	27	4
287	Dexamethasone nanomedicines for COVID-19. *Nature Nanotechnology*, **2020**, 15, 622-624	28.7	94
286	Molecular Imaging?. *Journal of Nuclear Medicine*, **2020**, 61, 1428-1434	8.9	1
285	Influence of MRI Examinations on Animal Welfare and Study Results. *Investigative Radiology*, **2020**, 55, 507-514	10.1	0
284	Hybrid MPI-MRI System for Dual-Modal In Situ Cardiovascular Assessments of Real-Time 3D Blood Flow Quantification-A Pre-Clinical In Vivo Feasibility Investigation. *IEEE Transactions on Medical Imaging*, **2020**, 39, 4335-4345	11.7	11
283	Ultrasound Microbubbles for Diagnosis and Treatment of Cardiovascular Diseases. *Seminars in Thrombosis and Hemostasis*, **2020**, 46, 545-552	5.3	11
282	A collagen-binding protein enables molecular imaging of kidney fibrosis in vivo. *Kidney International* , **2020**, 97, 609-614	9.9	14
281	Assessment of Chemotherapy-Induced Organ Damage with Ga-68 Labeled Duramycin. *Molecular Imaging and Biology*, **2020**, 22, 623-633	3.8	11
280	Design of a joint research data platform: A use case for severity assessment. *Laboratory Animals*, **2020**, 54, 33-39	2.6	2
279	Lumenal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity **2020**, 15, e0228503		

278	Lumenal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity **2020**, 15, e0228503		
277	Lumenal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity **2020**, 15, e0228503		
276	Lumenal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity **2020**, 15, e0228503		
275	Shelf-Life Evaluation and Lyophilization of PBCA-Based Polymeric Microbubbles. *Pharmaceutics*, **2019**, 11,	6.4	8
274	Evaluation of Riboflavin Transporters as Targets for Drug Delivery and Theranostics. *Frontiers in Pharmacology*, **2019**, 10, 79	5.6	14
273	The CCR2 Macrophage Subset Promotes Pathogenic Angiogenesis for Tumor Vascularization in Fibrotic Livers. *Cellular and Molecular Gastroenterology and Hepatology*, **2019**, 7, 371-390	7.9	42
272	MR and PET-CT monitoring of tissue-engineered vascular grafts in the ovine carotid artery. *Biomaterials*, **2019**, 216, 119228	15.6	15
271	The reduction of astrocytes and brain volume loss in anorexia nervosa-the impact of starvation and refeeding in a rodent model. *Translational Psychiatry*, **2019**, 9, 159	8.6	19
270	Bone resorption and body reorganization during maturation induce maternal transfer of toxic metals in anguillid eels. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11339-11344	11.5	7
269	Sorafenib Induces Pyroptosis in Macrophages and Triggers Natural Killer Cell-Mediated Cytotoxicity Against Hepatocellular Carcinoma. *Hepatology*, **2019**, 70, 1280-1297	11.2	52
268	Liver fibrosis affects the targeting properties of drug delivery systems to macrophage subsets in vivo. *Biomaterials*, **2019**, 206, 49-60	15.6	16
267	Data Curation for Preclinical and Clinical Multimodal Imaging Studies. *Molecular Imaging and Biology*, **2019**, 21, 1034-1043	3.8	1
266	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. *Science Translational Medicine*, **2019**, 11,	17.5	34
265	Dual CTLA-4 and PD-L1 Blockade Inhibits Tumor Growth and Liver Metastasis in a Highly Aggressive Orthotopic Mouse Model of Colon Cancer. *Neoplasia*, **2019**, 21, 932-944	6.4	33
264	Characterizing responsive and refractory orthotopic mouse models of hepatocellular carcinoma in cancer immunotherapy. *PLoS ONE*, **2019**, 14, e0219517	3.7	7
263	Non-invasive Imaging and Modeling of Liver Regeneration After Partial Hepatectomy. *Frontiers in Physiology*, **2019**, 10, 904	4.6	5
262	Photoacoustic Detection of Superoxide Using Oxoporphyrinogen and Porphyrin. *ACS Sensors*, **2019**, 4, 2001-2008	9.2	8
261	Iron oxide nanoparticles: Diagnostic, therapeutic and theranostic applications. *Advanced Drug Delivery Reviews*, **2019**, 138, 302-325	18.5	412

260	Smart cancer nanomedicine. *Nature Nanotechnology*, **2019**, 14, 1007-1017	28.7	447
259	Perspective review of optical imaging in welfare assessment in animal-based research. *Journal of Biomedical Optics*, **2019**, 24, 1-11	3.5	4
258	Clinical Pilot Application of Super-Resolution US Imaging in Breast Cancer. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2019**, 66, 517-526	3.2	26
257	Nanomedicine and macroscale materials in immuno-oncology. *Chemical Society Reviews*, **2019**, 48, 351-381	38.5	91
256	Macro-nanomedicine: Targeting the big picture. *Journal of Controlled Release*, **2019**, 294, 372-375	11.7	18
255	Advanced Ultrasound Technologies for Diagnosis and Therapy. *Journal of Nuclear Medicine*, **2018**, 59, 740-746	8.9	27
254	Glucocorticoid-loaded liposomes induce a pro-resolution phenotype in human primary macrophages to support chronic wound healing. *Biomaterials*, **2018**, 178, 481-495	15.6	38
253	Targeting and Modulation of Liver Myeloid Immune Cells by Hard-Shell Microbubbles. *Advanced Biology*, **2018**, 2, 1800002	3.5	4
252	Histidine-rich glycoprotein-induced vascular normalization improves EPR-mediated drug targeting to and into tumors. *Journal of Controlled Release*, **2018**, 282, 25-34	11.7	14
251	Comparison of the Accuracy of FMT/CT and PET/MRI for the Assessment of Antibody Biodistribution in Squamous Cell Carcinoma Xenografts. *Journal of Nuclear Medicine*, **2018**, 59, 44-50	8.9	8
250	Labeling of Collagen Type I Templates with a Naturally Derived Contrast Agent for Noninvasive MR Imaging in Soft Tissue Engineering. *Advanced Healthcare Materials*, **2018**, 7, e1800605	10.1	3
249	Radiomic analysis of contrast-enhanced ultrasound data. *Scientific Reports*, **2018**, 8, 11359	4.9	19
248	Engineering biofunctional in vitro vessel models using a multilayer bioprinting technique. *Scientific Reports*, **2018**, 8, 10430	4.9	89
247	Tumor targeting via EPR: Strategies to enhance patient responses. *Advanced Drug Delivery Reviews*, **2018**, 130, 17-38	18.5	618
246	Motion model ultrasound localization microscopy for preclinical and clinical multiparametric tumor characterization. *Nature Communications*, **2018**, 9, 1527	17.4	71
245	Imaging Nanomedicine-Based Drug Delivery: a Review of Clinical Studies. *Molecular Imaging and Biology*, **2018**, 20, 683-695	3.8	67
244	Molecular Ultrasound Imaging of Junctional Adhesion Molecule A Depicts Acute Alterations in Blood Flow and Early Endothelial Dysregulation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 40-48	9.4	24
243	A preclinical micro-computed tomography database including 3D whole body organ segmentations. *Scientific Data*, **2018**, 5, 180294	8.2	10

242	Sonopermeation to improve drug delivery to tumors: from fundamental understanding to clinical translation. *Expert Opinion on Drug Delivery*, **2018**, 15, 1249-1261	8	54
241	PLGA-Based Nanoparticles in Cancer Treatment. *Frontiers in Pharmacology*, **2018**, 9, 1260	5.6	200
240	A computational and experimental study to develop E-selectin targeted peptides for molecular imaging applications. *Future Medicinal Chemistry*, **2018**,	4.1	3
239	Current and Emerging Preclinical Approaches for Imaging-Based Characterization of Atherosclerosis. *Molecular Imaging and Biology*, **2018**, 20, 869-887	3.8	14
238	Development of a Polymer-Based Biodegradable Neurovascular Stent Prototype: A Preliminary In Vitro and In Vivo Study. *Macromolecular Bioscience*, **2018**, 18, e1700292	5.5	12
237	Semi-Automated Segmentation of the Tumor Vasculature in Contrast-Enhanced Ultrasound Data. *Ultrasound in Medicine and Biology*, **2018**, 44, 1910-1917	3.5	4
236	Challenges and strategies in anti-cancer nanomedicine development: An industry perspective. *Advanced Drug Delivery Reviews*, **2017**, 108, 25-38	18.5	687
235	Science to Practice: Multiparametric Molecular and Functional US Imaging Goes Three-dimensional. *Radiology*, **2017**, 282, 307-309	20.5	2
234	Synthesis, characterization, and relaxation studies of Gd-DO3A conjugate of chlorambucil as a potential theranostic agent. *Chemical Biology and Drug Design*, **2017**, 89, 269-276	2.9	5
233	Singlet oxygen-responsive micelles for enhanced photodynamic therapy. *Journal of Controlled Release*, **2017**, 260, 12-21	11.7	72
232	Recent advances in ultrasound-based diagnosis and therapy with micro- and nanometer-sized formulations. *Methods*, **2017**, 130, 4-13	4.6	63
231	Enhancing Tumor Penetration of Nanomedicines. *Biomacromolecules*, **2017**, 18, 1449-1459	6.9	127
230	Physicochemical Characterization of the Shell Composition of PBCA-Based Polymeric Microbubbles. *Macromolecular Bioscience*, **2017**, 17, 1700002	5.5	7
229	PBCA-based polymeric microbubbles for molecular imaging and drug delivery. *Journal of Controlled Release*, **2017**, 259, 128-135	11.7	36
228	Fluorinated polyurethane scaffolds for F magnetic resonance imaging. *Chemistry of Materials*, **2017**, 29, 2669-2671	9.6	11
227	Nilotinib Enhances Tumor Angiogenesis and Counteracts VEGFR2 Blockade in an Orthotopic Breast Cancer Xenograft Model with Desmoplastic Response. *Neoplasia*, **2017**, 19, 896-907	6.4	7
226	Noninvasive Assessment of Elimination and Retention using CT-FMT and Kinetic Whole-body Modeling. *Theranostics*, **2017**, 7, 1499-1510	12.1	16
225	Bio-degradable highly fluorescent conjugated polymer nanoparticles for bio-medical imaging applications. *Nature Communications*, **2017**, 8, 470	17.4	81

224	Balancing Passive and Active Targeting to Different Tumor Compartments Using Riboflavin-Functionalized Polymeric Nanocarriers. *Nano Letters*, **2017**, 17, 4665-4674	11.5	51
223	Inside Cover Image, Volume 9, Issue 4. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2017**, 9, e1485	9.2	1
222	Fibrosis imaging: Current concepts and future directions. *Advanced Drug Delivery Reviews*, **2017**, 121, 9-26	18.5	74
221	Pharmacological and physical vessel modulation strategies to improve EPR-mediated drug targeting to tumors. *Advanced Drug Delivery Reviews*, **2017**, 119, 44-60	18.5	139
220	Quinone-fused porphyrins as contrast agents for photoacoustic imaging. *Chemical Science*, **2017**, 8, 6176-6181	9.1	35
219	Status and trends in the development of clinical diagnostic agents. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2017**, 9, e1441	9.2	6
218	Bone regeneration induced by a 3D architectured hydrogel in a rat critical-size calvarial defect. *Biomaterials*, **2017**, 113, 158-169	15.6	51
217	Targeting distinct myeloid cell populations in vivo using polymers, liposomes and microbubbles. *Biomaterials*, **2017**, 114, 106-120	15.6	47
216	Sensitivity and accuracy of hybrid fluorescence-mediated tomography in deep tissue regions. *Journal of Biophotonics*, **2017**, 10, 1208-1216	3.1	8
215	Photoacoustic imaging of tumor targeting with riboflavin-functionalized theranostic nanocarriers. *International Journal of Nanomedicine*, **2017**, 12, 3813-3825	7.3	12
214	Automated Generation of Reliable Blood Velocity Parameter Maps from Contrast-Enhanced Ultrasound Data. *Contrast Media and Molecular Imaging*, **2017**, 2017, 2098324	3.2	4
213	Imaging in Oncology Research **2017**, 793-819		1
212	Squamous Cell Carcinoma Xenografts: Use of VEGFR2-targeted Microbubbles for Combined Functional and Molecular US to Monitor Antiangiogenic Therapy Effects. *Radiology*, **2016**, 278, 430-40	20.5	28
211	Longitudinal imaging of the ageing mouse. *Mechanisms of Ageing and Development*, **2016**, 160, 93-116	5.6	31
210	Amphiphilic Phospholipid-Based Riboflavin Derivatives for Tumor Targeting Nanomedicines. *Bioconjugate Chemistry*, **2016**, 27, 2048-61	6.3	22
209	Ultrasound-mediated drug delivery to the brain: principles, progress and prospects. *Drug Discovery Today: Technologies*, **2016**, 20, 41-48	7.1	80
208	The necroptosis-inducing kinase RIPK3 dampens adipose tissue inflammation and glucose intolerance. *Nature Communications*, **2016**, 7, 11869	17.4	43
207	Histidine-rich glycoprotein promotes macrophage activation and inflammation in chronic liver disease. *Hepatology*, **2016**, 63, 1310-24	11.2	55

206	Strategies for encapsulation of small hydrophilic and amphiphilic drugs in PLGA microspheres: State-of-the-art and challenges. *International Journal of Pharmaceutics*, **2016**, 499, 358-367	6.5	156
205	Micro-computed tomography (□CT) as a novel method in ecotoxicology--determination of morphometric and somatic data in rainbow trout (Oncorhynchus mykiss). *Science of the Total Environment*, **2016**, 543, 135-139	10.2	6
204	evaluation of riboflavin receptor targeted fluorescent USPIO in mice with prostate cancer xenografts. *Nano Research*, **2016**, 9, 1319-1333	10	27
203	Granzyme B-based cytolytic fusion protein targeting EpCAM specifically kills triple negative breast cancer cells in vitro and inhibits tumor growth in a subcutaneous mouse tumor model. *Cancer Letters*, **2016**, 372, 201-9	9.9	25
202	Sonoporation enhances liposome accumulation and penetration in tumors with low EPR. *Journal of Controlled Release*, **2016**, 231, 77-85	11.7	92
201	Locoregional cancer therapy using polymer-based drug depots. *Drug Discovery Today*, **2016**, 21, 640-7	8.8	21
200	GPU-Accelerated Adjoint Algorithmic Differentiation. *Computer Physics Communications*, **2016**, 200, 300-311	4.1	8
199	Quantitative Micro-Computed Tomography Imaging of Vascular Dysfunction in Progressive Kidney Diseases. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 520-32	12.7	85
198	Imalytics Preclinical: Interactive Analysis of Biomedical Volume Data. *Theranostics*, **2016**, 6, 328-41	12.1	66
197	Tailoring the physicochemical properties of core-crosslinked polymeric micelles for pharmaceutical applications. *Journal of Controlled Release*, **2016**, 244, 314-325	11.7	26
196	Molecular Ultrasound Imaging of □3-Integrin Expression in Carotid Arteries of Pigs After Vessel Injury. *Investigative Radiology*, **2016**, 51, 767-775	10.1	17
195	In situ validation of VEGFR-2 and □v□3 integrin as targets for breast lesion characterization. *Angiogenesis*, **2016**, 19, 245-254	10.6	7
194	Low-Dose Molecular Ultrasound Imaging with E-Selectin-Targeted PBCA Microbubbles. *Molecular Imaging and Biology*, **2016**, 18, 180-90	3.8	18
193	Targeting cellular and microenvironmental multidrug resistance. *Expert Opinion on Drug Delivery*, **2016**, 13, 1199-202	8	8
192	A novel approach for targeted elimination of CSPG4-positive triple-negative breast cancer cells using a MAP tau-based fusion protein. *International Journal of Cancer*, **2016**, 139, 916-27	7.5	22
191	Refinement of adsorptive coatings for fluorescent riboflavin-receptor-targeted iron oxide nanoparticles. *Contrast Media and Molecular Imaging*, **2016**, 11, 47-54	3.2	4
190	Core-Crosslinked Polymeric Micelles: Principles, Preparation, Biomedical Applications and Clinical Translation. *Nano Today*, **2015**, 10, 93-117	17.9	346
189	Sunitinib microspheres based on [PDLLA-PEG-PDLLA]-b-PLLA multi-block copolymers for ocular drug delivery. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 95, 368-77	5.7	30

188	Formulation and characterization of microspheres loaded with imatinib for sustained delivery. *International Journal of Pharmaceutics*, **2015**, 482, 123-30	6.5	41
187	A Digital Preclinical PET/MRI Insert and Initial Results. *IEEE Transactions on Medical Imaging*, **2015**, 34, 2258-70	11.7	79
186	Role of platelet-derived growth factor-CC in capillary rarefaction in renal fibrosis. *American Journal of Pathology*, **2015**, 185, 2132-42	5.8	16
185	Noninvasive Imaging of Nanomedicines and Nanotheranostics: Principles, Progress, and Prospects. *Chemical Reviews*, **2015**, 115, 10907-37	68.1	315
184	GPU-Accelerated Sparse Matrix-Matrix Multiplication by Iterative Row Merging. *SIAM Journal of Scientific Computing*, **2015**, 37, C54-C71	2.6	44
183	Data Processing for a High Resolution Preclinical PET Detector Based on Philips DPC Digital SiPMs. *IEEE Transactions on Nuclear Science*, **2015**, 62, 669-678	1.7	21
182	ToF Performance Evaluation of PET Modules With Digital Silicon Photomultiplier Technology During MR Operation. *IEEE Transactions on Nuclear Science*, **2015**, 62, 658-663	1.7	10
181	Enhanced in vitro and in vivo cellular imaging with green tea coated water-soluble iron oxide nanocrystals. *ACS Applied Materials & Interfaces*, **2015**, 7, 6530-40	9.5	48
180	In-vivo detection of the erythropoietin receptor in tumours using positron emission tomography. *European Radiology*, **2015**, 25, 472-9	8	5
179	Fluorophore labeling of core-crosslinked polymeric micelles for multimodal in vivo and ex vivo optical imaging. *Nanomedicine*, **2015**, 10, 1111-25	5.6	17
178	Dynamic contrast-enhanced ultrasound parametric maps to evaluate intratumoral vascularization. *Investigative Radiology*, **2015**, 50, 212-7	10.1	34
177	Endothelial Hypoxia-Inducible Factor-1□Promotes Atherosclerosis and Monocyte Recruitment by Upregulating MicroRNA-19a. *Hypertension*, **2015**, 66, 1220-6	8.5	88
176	Science to Practice: Molecularly Targeted US of Inflammation-Important Steps toward Clinical Translation. *Radiology*, **2015**, 276, 621-3	20.5	3
175	Noninvasive molecular ultrasound monitoring of vessel healing after intravascular surgical procedures in a preclinical setup. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 1366-73	9.4	21
174	Haematopoietic cell-derived Jnk1 is crucial for chronic inflammation and carcinogenesis in an experimental model of liver injury. *Journal of Hepatology*, **2015**, 62, 140-9	13.4	16
173	Fluorescent cell-traceable dexamethasone-loaded liposomes for the treatment of inflammatory liver diseases. *Biomaterials*, **2015**, 37, 367-82	15.6	96
172	Erythropoietin improves the accumulation and therapeutic effects of carboplatin by enhancing tumor vascularization and perfusion. *Theranostics*, **2015**, 5, 905-18	12.1	21
171	Evolution of contrast agents for ultrasound imaging and ultrasound-mediated drug delivery. *Frontiers in Pharmacology*, **2015**, 6, 197	5.6	149

170	USPIO-labeled textile materials for non-invasive MR imaging of tissue-engineered vascular grafts. *Biomaterials*, **2015**, 39, 155-63	15.6	56
169	Applications of nanoparticles for diagnosis and therapy of cancer. *British Journal of Radiology*, **2015**, 88, 20150207	3.4	262
168	Liposomal delivery of dexamethasone attenuates prostate cancer bone metastatic tumor growth in vivo. *Prostate*, **2015**, 75, 815-24	4.2	29
167	MPI field generator design for an FFL based image acquisition **2015**,		3
166	Theranostic USPIO-Loaded Microbubbles for Mediating and Monitoring Blood-Brain Barrier Permeation. *Advanced Functional Materials*, **2015**, 25, 36-43	15.6	97
165	Water-soluble dopamine-based polymers for photoacoustic imaging. *Chemical Communications*, **2015**, 51, 6084-7	5.8	44
164	Hybrid Materials: Theranostic USPIO-Loaded Microbubbles for Mediating and Monitoring Blood-Brain Barrier Permeation (Adv. Funct. Mater. 1/2015). *Advanced Functional Materials*, **2015**, 25, 2-2	15.6	3
163	Micro-CT Technique Is Well Suited for Documentation of Remodeling Processes in Murine Carotid Arteries. *PLoS ONE*, **2015**, 10, e0130374	3.7	11
162	Intrahepatic Vascular Anatomy in Rats and Mice--Variations and Surgical Implications. *PLoS ONE*, **2015**, 10, e0141798	3.7	18
161	Hybrid μCT-FMT imaging and image analysis. *Journal of Visualized Experiments*, **2015**, e52770	1.6	25
160	MicroRNA-126-5p promotes endothelial proliferation and limits atherosclerosis by suppressing Dlk1. *Nature Medicine*, **2014**, 20, 368-76	50.5	427
159	Passive versus active tumor targeting using RGD- and NGR-modified polymeric nanomedicines. *Nano Letters*, **2014**, 14, 972-81	11.5	244
158	Decationized polyplexes as stable and safe carrier systems for improved biodistribution in systemic gene therapy. *Journal of Controlled Release*, **2014**, 195, 162-175	11.7	33
157	Multimodal Optical Imaging Probes **2014**, 73-83		
156	Influence of repetitive contrast agent injections on functional and molecular ultrasound measurements. *Ultrasound in Medicine and Biology*, **2014**, 40, 2468-75	3.5	15
155	Science to practice: Cellular therapy of Parkinson disease--a new radiotracer to target transplanted dopaminergic cells with PET. *Radiology*, **2014**, 272, 1-3	20.5	3
154	Nanoparticles for imaging: top or flop?. *Radiology*, **2014**, 273, 10-28	20.5	158
153	PET performance evaluation of a preclinical digital PET/MRI insert. *EJNMMI Physics*, **2014**, 1, A3	4.4	1

152	CCL2-dependent infiltrating macrophages promote angiogenesis in progressive liver fibrosis. *Gut*, **2014**, 63, 1960-1971	19.2	183
151	The Theranostic Path to Personalized Nanomedicine. *Clinical and Translational Imaging*, **2014**, 2, 66-76	2	42
150	Nanomedicines for inflammatory arthritis: head-to-head comparison of glucocorticoid-containing polymers, micelles, and liposomes. *ACS Nano*, **2014**, 8, 458-466	16.7	114
149	Characterizing EPR-mediated passive drug targeting using contrast-enhanced functional ultrasound imaging. *Journal of Controlled Release*, **2014**, 182, 83-9	11.7	73
148	Recent advances in molecular, multimodal and theranostic ultrasound imaging. *Advanced Drug Delivery Reviews*, **2014**, 72, 15-27	18.5	147
147	Collagen Scaffolds: Iron Oxide-Labeled Collagen Scaffolds for Non-Invasive MR Imaging in Tissue Engineering (Adv. Funct. Mater. 6/2014). *Advanced Functional Materials*, **2014**, 24, 722-722	15.6	
146	Performance of lead-free versus lead-based hunting ammunition in ballistic soap. *PLoS ONE*, **2014**, 9, e102015	3.7	25
145	FMN-coated fluorescent USPIO for cell labeling and non-invasive MR imaging in tissue engineering. *Theranostics*, **2014**, 4, 1002-13	12.1	25
144	Absorption reconstruction improves biodistribution assessment of fluorescent nanoprobes using hybrid fluorescence-mediated tomography. *Theranostics*, **2014**, 4, 960-71	12.1	39
143	Nondestructive monitoring of tissue-engineered constructs. *Biomedizinische Technik*, **2014**, 59, 165-75	1.3	6
142	Spatio-temporal simulation of first pass drug perfusion in the liver. *PLoS Computational Biology*, **2014**, 10, e1003499	5	35
141	In vitro, in vivo and in silico analysis of the anticancer and estrogen-like activity of guava leaf extracts. *Current Medicinal Chemistry*, **2014**, 21, 2322-30	4.3	17
140	Scattered PET data for attenuation-map reconstruction in PET/MRI. *Medical Physics*, **2014**, 41, 102502	4.4	27
139	Activation of CXCR7 limits atherosclerosis and improves hyperlipidemia by increasing cholesterol uptake in adipose tissue. *Circulation*, **2014**, 129, 1244-53	16.7	52
138	Micro-CT imaging of tumor angiogenesis: quantitative measures describing micromorphology and vascularization. *American Journal of Pathology*, **2014**, 184, 431-41	5.8	109
137	Iron Oxide-labeled Collagen Scaffolds for Non-invasive MR Imaging in Tissue Engineering. *Advanced Functional Materials*, **2014**, 24, 754-762	15.6	65
136	A low molecular weight zinc2+-dipicolylamine-based probe detects apoptosis during tumour treatment better than an annexin V-based probe. *European Radiology*, **2014**, 24, 363-70	8	7
135	Towards Software-Based Real-Time Singles and Coincidence Processing of Digital PET Detector Raw Data. *IEEE Transactions on Nuclear Science*, **2013**, 60, 1550-1559	1.7	41

134	Multidrug resistance: Physiological principles and nanomedical solutions. *Advanced Drug Delivery Reviews*, **2013**, 65, 1852-1865	18.5	189
133	Comparison and systematic optimization of synthetic protocols for DOTA-Hydrazide generation. *Tetrahedron Letters*, **2013**, 54, 918-920	2	5
132	The high angiogenic activity in very early breast cancer enables reliable imaging with VEGFR2-targeted microbubbles (BR55). *European Radiology*, **2013**, 23, 468-75	8	49
131	Smart drug delivery systems: back to the future vs. clinical reality. *International Journal of Pharmaceutics*, **2013**, 454, 527-9	6.5	50
130	Recent progress in nanomedicine: therapeutic, diagnostic and theranostic applications. *Current Opinion in Biotechnology*, **2013**, 24, 1159-66	11.4	234
129	Noninvasive optical imaging of nanomedicine biodistribution. *ACS Nano*, **2013**, 7, 252-62	16.7	90
128	Science to Practice: exploring new indications for molecular US imaging. *Radiology*, **2013**, 267, 661-2	20.5	1
127	Science to practice: will contrast agents for molecular imaging of angiogenesis help overcome the limitations of functional vascular imaging?. *Radiology*, **2013**, 268, 309-11	20.5	3
126	Rhodamine-loaded intercellular adhesion molecule-1-targeted microbubbles for dual-modality imaging under controlled shear stresses. *Circulation: Cardiovascular Imaging*, **2013**, 6, 974-81	3.9	17
125	Ultrasound molecular imaging of E-selectin in tumor vessels using poly n-butyl cyanoacrylate microbubbles covalently coupled to a short targeting peptide. *Investigative Radiology*, **2013**, 48, 843-50	10.1	32
124	CXCL12 promotes the stabilization of atherosclerotic lesions mediated by smooth muscle progenitor cells in Apoe-deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 679-86	6.4	64
123	Liver dysplasia: US molecular imaging with targeted contrast agent enables early assessment. *Radiology*, **2013**, 267, 487-95	20.5	24
122	Regorafenib inhibits growth, angiogenesis, and metastasis in a highly aggressive, orthotopic colon cancer model. *Molecular Cancer Therapeutics*, **2013**, 12, 1322-31	6.1	159
121	Non-invasive imaging for studying anti-angiogenic therapy effects. *Thrombosis and Haemostasis*, **2013**, 109, 375-90	7	69
120	Elastin-based molecular MRI of liver fibrosis. *Hepatology*, **2013**, 58, 1517-8	11.2	31
119	Personalizing Tumor Pathophysiology by Diagnosing Developmental Problems in Tumors with Imaging Techniques **2013**, 323-341		
118	Overcoming cellular multidrug resistance using classical nanomedicine formulations. *European Journal of Pharmaceutical Sciences*, **2012**, 45, 421-8	5.1	50
117	Drug targeting to tumors: principles, pitfalls and (pre-) clinical progress. *Journal of Controlled Release*, **2012**, 161, 175-87	11.7	983

116	Fluorescently labeled microbubbles for facilitating translational molecular ultrasound studies. *Drug Delivery and Translational Research*, **2012**, 2, 56-64	6.2	14
115	A self-normalization reconstruction technique for PET scans using the positron emission data. *IEEE Transactions on Medical Imaging*, **2012**, 31, 2234-40	11.7	22
114	High accuracy of mesoscopic epi-fluorescence tomography for non-invasive quantitative volume determination of fluorescent protein-expressing tumours in mice. *European Radiology*, **2012**, 22, 1955-62	8	8
113	Polymeric nanoparticles as OCT contrast agents. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	5
112	Molecular and functional ultrasound imaging of breast tumors. *European Journal of Radiology*, **2012** , 81 Suppl 1, S11-2	4.7	7
111	Versatile synthetic strategies for PBCA-based hybrid fluorescent microbubbles and their potential theranostic applications to cell labelling and imaging. *Chemical Communications*, **2012**, 48, 5142-4	5.8	17
110	Ultrasound microbubbles for molecular diagnosis, therapy, and theranostics. *Journal of Nuclear Medicine*, **2012**, 53, 345-8	8.9	219
109	Personalized nanomedicine. *Clinical Cancer Research*, **2012**, 18, 4889-94	12.9	138
108	Image-guided, targeted and triggered drug delivery to tumors using polymer-based microbubbles. *Journal of Controlled Release*, **2012**, 163, 75-81	11.7	111
107	Riboflavin carrier protein-targeted fluorescent USPIO for the assessment of vascular metabolism in tumors. *Biomaterials*, **2012**, 33, 8822-9	15.6	32
106	Evaluation of high frequency ultrasound methods and contrast agents for characterising tumor response to anti-angiogenic treatment. *European Journal of Radiology*, **2012**, 81, 2710-6	4.7	17
105	Lung attenuation coefficient estimation using Maximum Likelihood reconstruction of attenuation and activity for PET/MR attenuation correction **2012**,		5
104	Use of scattered coincidences for emission-based estimation of attenuation map in PET **2012**,		8
103	MicroRNA-155 promotes atherosclerosis by repressing Bcl6 in macrophages. *Journal of Clinical Investigation*, **2012**, 122, 4190-202	15.9	359
102	Chemokine Cxcl9 attenuates liver fibrosis-associated angiogenesis in mice. *Hepatology*, **2012**, 55, 1610-9	11.2	91
101	Glucocorticoid-loaded core-cross-linked polymeric micelles with tailorable release kinetics for targeted therapy of rheumatoid arthritis. *Angewandte Chemie - International Edition*, **2012**, 51, 7254-8	16.4	87
100	Fluorescent magnetoliposomes as a platform technology for functional and molecular MR and optical imaging. *Contrast Media and Molecular Imaging*, **2012**, 7, 59-67	3.2	15
99	Development and validation of an intrinsic landmark-based gating protocol applicable for functional and molecular ultrasound imaging. *European Radiology*, **2012**, 22, 1789-96	8	4

98	Physicochemical and biological aspects of macrophage-mediated drug targeting in anti-microbial therapy. *Fundamental and Clinical Pharmacology*, **2012**, 26, 63-71	3.1	10
97	Targeted near-infrared imaging of the erythropoietin receptor in human lung cancer xenografts. *Journal of Nuclear Medicine*, **2012**, 53, 304-11	8.9	23
96	MRI-based attenuation correction for hybrid PET/MRI systems: a 4-class tissue segmentation technique using a combined ultrashort-echo-time/Dixon MRI sequence. *Journal of Nuclear Medicine*, **2012**, 53, 796-804	8.9	365
95	FPGA-based singles and coincidences processing pipeline for integrated digital PET/MR detectors **2012**,		15
94	First evaluations of the neighbor logic of the digital SiPM tile **2012**,		13
93	Science to practice: genetic engineering meets cell tracking--a promising approach for cell-based therapies?. *Radiology*, **2012**, 265, 1-3	20.5	
92	Theranostic systems and strategies for monitoring nanomedicine-mediated drug targeting. *Current Pharmaceutical Biotechnology*, **2012**, 13, 609-22	2.6	28
91	Targeted ultrasound imaging of cancer: an emerging technology on its way to clinics. *Current Pharmaceutical Design*, **2012**, 18, 2184-99	3.3	48
90	Imaging in the age of molecular medicine: monitoring of anti-angiogenic treatments. *Current Pharmaceutical Biotechnology*, **2012**, 13, 595-608	2.6	13
89	Double-edged role of the CXCL12/CXCR4 axis in experimental myocardial infarction. *Journal of the American College of Cardiology*, **2011**, 58, 2415-23	15.1	93
88	Theranostic nanomedicine. *Accounts of Chemical Research*, **2011**, 44, 1029-38	24.3	670
87	Failure of annexin-based apoptosis imaging in the assessment of antiangiogenic therapy effects. *EJNMMI Research*, **2011**, 1, 26	3.6	28
86	Advanced characterization and refinement of poly N-butyl cyanoacrylate microbubbles for ultrasound imaging. *Ultrasound in Medicine and Biology*, **2011**, 37, 1622-34	3.5	36
85	Application of molecular ultrasound for imaging integrin expression. *Theranostics*, **2011**, 1, 127-34	12.1	42
84	Optimized RF shielding techniques for simultaneous PET/MR. *Medical Physics*, **2011**, 38, 3995-4000	4.4	13
83	Water-soluble superparamagnetic magnetite nanoparticles with biocompatible coating for enhanced magnetic resonance imaging. *ACS Nano*, **2011**, 5, 6315-24	16.7	230
82	Molecular and functional ultrasound imaging in differently aggressive breast cancer xenografts using two novel ultrasound contrast agents (BR55 and BR38). *European Radiology*, **2011**, 21, 1988-95	8	85
81	Molecular ultrasound imaging and its potential for paediatric radiology. *Pediatric Radiology*, **2011**, 41, 176-84	2.8	11

80	Macromolecular nanotheranostics for multimodal anticancer therapy. *Nanoscale*, **2011**, 3, 4022-34	7.7	11
79	FMN-coated fluorescent iron oxide nanoparticles for RCP-mediated targeting and labeling of metabolically active cancer and endothelial cells. *Biomaterials*, **2011**, 32, 5863-71	15.6	53
78	Iron oxide nanoparticle-containing microbubble composites as contrast agents for MR and ultrasound dual-modality imaging. *Biomaterials*, **2011**, 32, 6155-63	15.6	132
77	Virtual elastic sphere processing enables reproducible quantification of vessel stenosis at CT and MR angiography. *Radiology*, **2011**, 260, 709-17	20.5	34
76	Imaging tumor vascularity by tracing single microbubbles **2011**,		27
75	Science to practice: are theranostic agents with encapsulated cells the key for diabetes therapy?. *Radiology*, **2011**, 260, 613-5	20.5	11
74	Comparison of CT, MRI and optical reflectance imaging for assessing the growth of GFP/RFP-expressing tumors. *Anticancer Research*, **2011**, 31, 2907-13	2.3	8
73	Science to practice: the dawn of molecular US imaging for clinical cancer imaging. *Radiology*, **2010**, 256, 331-3	20.5	13
72	Nanotheranostics and image-guided drug delivery: current concepts and future directions. *Molecular Pharmaceutics*, **2010**, 7, 1899-912	5.6	305
71	Imaging anti-angiogenic treatment response with DCE-VCT, DCE-MRI and DWI in an animal model of breast cancer bone metastasis. *European Journal of Radiology*, **2010**, 73, 280-7	4.7	50
70	Tumor perfusion assessed by dynamic contrast-enhanced MRI correlates to the grading of renal cell carcinoma: initial results. *European Journal of Radiology*, **2010**, 74, e176-80	4.7	23
69	Comparison of conventional time-intensity curves vs. maximum intensity over time for post-processing of dynamic contrast-enhanced ultrasound. *European Journal of Radiology*, **2010**, 75, e149-53	4.7	38
68	Platelet-derived growth factor-B normalizes micromorphology and vessel function in vascular endothelial growth factor-A-induced squamous cell carcinomas. *American Journal of Pathology*, **2010**, 176, 981-94	5.8	32
67	Simulation-based comparison of two approaches frequently used for dynamic contrast-enhanced MRI. *European Radiology*, **2010**, 20, 432-42	8	66
66	Estimation of tissue perfusion by dynamic contrast-enhanced imaging: simulation-based evaluation of the steepest slope method. *European Radiology*, **2010**, 20, 2166-75	8	26
65	Tracer kinetic modelling of tumour angiogenesis based on dynamic contrast-enhanced CT and MRI measurements. *European Journal of Nuclear Medicine and Molecular Imaging*, **2010**, 37 Suppl 1, S30-51	8.8	87
64	Anatomical and microstructural imaging of angiogenesis. *European Journal of Nuclear Medicine and Molecular Imaging*, **2010**, 37 Suppl 1, S4-19	8.8	23
63	Polymeric nanomedicines for image-guided drug delivery and tumor-targeted combination therapy. *Nano Today*, **2010**, 5, 197-212	17.9	114

62	Long-Circulating and Passively Tumor-Targeted Polymer-Drug Conjugates Improve the Efficacy and Reduce the Toxicity of Radiochemotherapy. *Advanced Engineering Materials*, **2010**, 12, B413-B421	3.5	0
61	Early Detection of Systems Response: Molecular and Functional Imaging of Angiogenesis **2010**, 385-403		9
60	MMP inhibition blocks fibroblast-dependent skin cancer invasion, reduces vascularization and alters VEGF-A and PDGF-BB expression. *Anticancer Research*, **2010**, 30, 703-11	2.3	23
59	Pharmacokinetic analysis of tissue microcirculation using nested models: multimodel inference and parameter identifiability. *Medical Physics*, **2009**, 36, 2923-33	4.4	59
58	Functional and molecular ultrasound imaging: concepts and contrast agents. *Current Medicinal Chemistry*, **2009**, 16, 627-42	4.3	106
57	RGD-labeled USPIO inhibits adhesion and endocytotic activity of alpha v beta3-integrin-expressing glioma cells and only accumulates in the vascular tumor compartment. *Radiology*, **2009**, 253, 462-9	20.5	69
56	Assessment of vascular remodeling under antiangiogenic therapy using DCE-MRI and vessel size imaging. *Journal of Magnetic Resonance Imaging*, **2009**, 29, 1125-33	5.6	56
55	Switching of vascular phenotypes within a murine breast cancer model induced by angiopoietin-2. *Journal of Pathology*, **2009**, 217, 571-80	9.4	38
54	TNF-alpha and the IFN-gamma-inducible protein 10 (IP-10/CXCL-10) delivered by parvoviral vectors act in synergy to induce antitumor effects in mouse glioblastoma. *Cancer Gene Therapy*, **2009**, 16, 149-60	5.4	71
53	Radiopaque iodinated copolymeric nanoparticles for X-ray imaging applications. *Biomaterials*, **2009**, 30, 5610-6	15.6	91
52	Molecular ultrasound imaging of early vascular response in prostate tumors irradiated with carbon ions. *Neoplasia*, **2009**, 11, 856-63	6.4	42
51	Role of the small GTPase Rap1 for integrin activity regulation in endothelial cells and angiogenesis. *Blood*, **2009**, 113, 488-97	2.2	102
50	Vascular normalization in Rgs5-deficient tumours promotes immune destruction. *Nature*, **2008**, 453, 410-4	50.4	428
49	Image-guided and passively tumour-targeted polymeric nanomedicines for radiochemotherapy. *British Journal of Cancer*, **2008**, 99, 900-10	8.7	101
48	Bevacizumab inhibits breast cancer-induced osteolysis, surrounding soft tissue metastasis, and angiogenesis in rats as visualized by VCT and MRI. *Neoplasia*, **2008**, 10, 511-20	6.4	48
47	Molecular profiling of angiogenesis with targeted ultrasound imaging: early assessment of antiangiogenic therapy effects. *Molecular Cancer Therapeutics*, **2008**, 7, 101-9	6.1	148
46	Flt-1 signaling in macrophages promotes glioma growth in vivo. *Cancer Research*, **2008**, 68, 7342-51	10.1	139
45	Intrinsic gating for small-animal computed tomography: a robust ECG-less paradigm for deriving cardiac phase information and functional imaging. *Circulation: Cardiovascular Imaging*, **2008**, 1, 235-43	3.9	29

44	Local injection of stem cell factor (SCF) improves myocardial homing of systemically delivered c-kit + bone marrow-derived stem cells. *Cardiovascular Research*, **2008**, 77, 143-50	9.9	45
43	Sustained persistence of transplanted proangiogenic cells contributes to neovascularization and cardiac function after ischemia. *Circulation Research*, **2008**, 103, 1327-34	15.7	91
42	Vessel fractions in tumor xenografts depicted by flow- or contrast-sensitive three-dimensional high-frequency Doppler ultrasound respond differently to antiangiogenic treatment. *Cancer Research*, **2008**, 68, 7042-9	10.1	65
41	Pharmacodynamics of streptavidin-coated cyanoacrylate microbubbles designed for molecular ultrasound imaging. *Investigative Radiology*, **2008**, 43, 162-9	10.1	48
40	Volumetric high-frequency Doppler ultrasound enables the assessment of early antiangiogenic therapy effects on tumor xenografts in nude mice. *European Radiology*, **2008**, 18, 753-8	8	35
39	Intrinsic respiratory gating in small-animal CT. *European Radiology*, **2008**, 18, 1375-84	8	39
38	Specific targeting of tumor angiogenesis by RGD-conjugated ultrasmall superparamagnetic iron oxide particles using a clinical 1.5-T magnetic resonance scanner. *Cancer Research*, **2007**, 67, 1555-62	10.1	302
37	Effect of radiotherapy and hyperthermia on the tumor accumulation of HPMA copolymer-based drug delivery systems. *Journal of Controlled Release*, **2007**, 117, 333-41	11.7	93
36	Non-invasive assessment of vessel morphology and function in tumors by magnetic resonance imaging. *European Radiology*, **2007**, 17, 2136-48	8	57
35	Preoperative embolization of a tumor-bearing horseshoe kidney via both channels of a concomitant aortic dissection. *CardioVascular and Interventional Radiology*, **2007**, 30, 501-3	2.7	3
34	Contrast agents and applications to assess tumor angiogenesis in vivo by magnetic resonance imaging. *Current Medicinal Chemistry*, **2007**, 14, 77-91	4.3	59
33	Lumbar bone marrow microcirculation measurements from dynamic contrast-enhanced magnetic resonance imaging is a predictor of event-free survival in progressive multiple myeloma. *Clinical Cancer Research*, **2007**, 13, 475-81	12.9	76
32	Small Animal Computed Tomography Imaging. *Current Medical Imaging*, **2007**, 3, 45-59	1.2	54
31	Retrospective motion gating in small animal CT of mice and rats. *Investigative Radiology*, **2007**, 42, 704-14	10.1	41
30	Silica- and alkoxysilane-coated ultrasmall superparamagnetic iron oxide particles: a promising tool to label cells for magnetic resonance imaging. *Langmuir*, **2007**, 23, 1427-34	4	133
29	Impact of stroma on the growth, microcirculation, and metabolism of experimental prostate tumors. *Neoplasia*, **2007**, 9, 57-67	6.4	28
28	Dominant-negative inhibition of the Axl receptor tyrosine kinase suppresses brain tumor cell growth and invasion and prolongs survival. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5799-804	11.5	200
27	Synthesis and characterization of HE-24.8: a polymeric contrast agent for magnetic resonance angiography. *Bioconjugate Chemistry*, **2006**, 17, 42-51	6.3	32

26	Determination of pharmacokinetic parameters in DCE MRI: Consequence of nonlinearity between contrast agent concentration and signal intensity. *Investigative Radiology*, **2006**, 41, 536-43	10.1	43
25	Troponin I overexpression inhibits tumor growth, perfusion, and vascularization of morris hepatoma. *Journal of Nuclear Medicine*, **2006**, 47, 1506-14	8.9	11
24	Potential applications of flat-panel volumetric CT in morphologic and functional small animal imaging. *Neoplasia*, **2005**, 7, 730-40	6.4	56
23	Physical and biological characterization of superparamagnetic iron oxide- and ultrasmall superparamagnetic iron oxide-labeled cells: a comparison. *Investigative Radiology*, **2005**, 40, 504-13	10.1	81
22	Improved correlation of histological data with DCE MRI parameter maps by 3D reconstruction, reslicing and parameterization of the histological images. *European Radiology*, **2005**, 15, 1079-86	8	20
21	Characterization of a rat model with site-specific bone metastasis induced by MDA-MB-231 breast cancer cells and its application to the effects of an antibody against bone sialoprotein. *International Journal of Cancer*, **2005**, 115, 177-86	7.5	57
20	Inhibition of platelet-derived growth factor signaling attenuates pulmonary fibrosis. *Journal of Experimental Medicine*, **2005**, 201, 925-35	16.6	300
19	Volumetric computed tomography (VCT): a new technology for noninvasive, high-resolution monitoring of tumor angiogenesis. *Nature Medicine*, **2004**, 10, 1133-8	50.5	177
18	Perfusion CT in patients with advanced bronchial carcinomas: a novel chance for characterization and treatment monitoring?. *European Radiology*, **2004**, 14, 1226-33	8	79
17	Simple models improve the discrimination of prostate cancers from the peripheral gland by T1-weighted dynamic MRI. *European Radiology*, **2004**, 14, 1793-801	8	51
16	Quantification of perfusion of liver tissue and metastases using a multivessel model for replenishment kinetics of ultrasound contrast agents. *Ultrasound in Medicine and Biology*, **2004**, 30, 1355-63	3.5	51
15	Microcirculation and microvasculature in breast tumors: pharmacokinetic analysis of dynamic MR image series. *Magnetic Resonance in Medicine*, **2004**, 52, 420-9	4.4	210
14	Dynamic magnetic resonance tomography and proton magnetic resonance spectroscopy of prostate cancers in rats treated by radiotherapy. *Investigative Radiology*, **2004**, 39, 34-44	10.1	32
13	Low mechanical index contrast-enhanced ultrasound better reflects high arterial perfusion of liver metastases than arterial phase computed tomography. *Investigative Radiology*, **2004**, 39, 216-22	10.1	32
12	Computed tomography monitoring of radiation-induced lung fibrosis in mice. *Investigative Radiology*, **2004**, 39, 600-9	10.1	52
11	Dynamic contrast-enhanced magnetic resonance imaging rapidly indicates vessel regression in human squamous cell carcinomas grown in nude mice caused by VEGF receptor 2 blockade with DC101. *Neoplasia*, **2004**, 6, 213-23	6.4	26
10	Comparing dynamic parameters of tumor vascularization in nude mice revealed by magnetic resonance imaging and contrast-enhanced intermittent power Doppler sonography. *Investigative Radiology*, **2003**, 38, 516-24	10.1	33
9	Dynamic T1-weighted monitoring of vascularization in human carcinoma heterotransplants by magnetic resonance imaging. *International Journal of Cancer*, **2003**, 104, 113-20	7.5	28

8	Comparison of intermittent-bolus contrast imaging with conventional power Doppler sonography: quantification of tumour perfusion in small animals. *Ultrasound in Medicine and Biology*, **2003**, 29, 1093-103	3.5	46
7	A multivessel model describing replenishment kinetics of ultrasound contrast agent for quantification of tissue perfusion. *Ultrasound in Medicine and Biology*, **2003**, 29, 1421-30	3.5	73
6	Sensitive noninvasive monitoring of tumor perfusion during antiangiogenic therapy by intermittent bolus-contrast power Doppler sonography. *Cancer Research*, **2003**, 63, 8264-70	10.1	48
5	Magnetic resonance imaging of nude mice with heterotransplanted high-grade squamous cell carcinomas: use of a low-loaded, covalently bound Gd-Hsa conjugate as contrast agent with high tumor affinity. *Investigative Radiology*, **2002**, 37, 193-8	10.1	22
4	Interstitial magnetic resonance lymphography with gadobutrol in rats: evaluation of contrast kinetics. *Investigative Radiology*, **2002**, 37, 655-62	10.1	22
3	Influence of intercellular junctions on endothelin secretion of human umbilical vein endothelial cells in vitro. *Basic Research in Cardiology*, **2000**, 95, 299-307	11.8	6
2	Cell-cell contacts in the human cell line ECV304 exhibit both endothelial and epithelial characteristics. *Cell and Tissue Research*, **1999**, 297, 131-40	4.2	54
1	Polarized expression of heterologous membrane proteins transfected in a human endothelial-derived cell line. *European Journal of Cell Biology*, **1998**, 75, 353-61	6.1	11