

Jürgen K Willmann

List of Publications by Year in descending order

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91
papers

7,470
citations

50566

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60403

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times ranked

10662
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial Characterization of Tumor Perfusion Properties from 3D DCE-US Perfusion Maps are Early Predictors of Cancer Treatment Response. <i>Scientific Reports</i> , 2020, 10, 6996.	1.6	9
2	Evaluation of integrin $\alpha_6\beta_4$ cystine knot PET tracers to detect cancer and idiopathic pulmonary fibrosis. <i>Nature Communications</i> , 2019, 10, 4673.	5.8	73
3	Point Shear Wave Elastography Using Machine Learning to Differentiate Renal Cell Carcinoma and Angiomyolipoma. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1944-1954.	0.7	10
4	Multimodality Hyperpolarized C-13 MRS/PET/Multiparametric MR Imaging for Detection and Image-Guided Biopsy of Prostate Cancer: First Experience in a Canine Prostate Cancer Model. <i>Molecular Imaging and Biology</i> , 2019, 21, 861-870.	1.3	6
5	Quantitative Ultrasound Spectroscopy for Differentiation of Hepatocellular Carcinoma from At-Risk and Normal Liver Parenchyma. <i>Clinical Cancer Research</i> , 2019, 25, 6683-6691.	3.2	8
6	Pharmacokinetic Modeling of Targeted Ultrasound Contrast Agents for Quantitative Assessment of Anti-Angiogenic Therapy: a Longitudinal Case-Control Study in Colon Cancer. <i>Molecular Imaging and Biology</i> , 2019, 21, 633-643.	1.3	9
7	A multi-model framework to estimate perfusion parameters using contrast-enhanced ultrasound imaging. <i>Medical Physics</i> , 2019, 46, 590-600.	1.6	5
8	How to perform Contrast-Enhanced Ultrasound (CEUS). <i>Ultrasound International Open</i> , 2018, 04, E2-E15.	0.3	222
9	Thy1-Targeted Microbubbles for Ultrasound Molecular Imaging of Pancreatic Ductal Adenocarcinoma. <i>Clinical Cancer Research</i> , 2018, 24, 1574-1585.	3.2	32
10	Intraoperative Resection Guidance with Photoacoustic and Fluorescence Molecular Imaging Using an Anti- $\alpha_7\beta_3$ Antibody-Indocyanine Green Dual Contrast Agent. <i>Clinical Cancer Research</i> , 2018, 24, 3572-3582.	3.2	33
11	Anatomical Road Mapping Using CT and MR Enterography for Ultrasound Molecular Imaging of Small Bowel Inflammation in Swine. <i>European Radiology</i> , 2018, 28, 2068-2076.	2.3	1
12	Point Shear Wave Elastography for Grading Liver Fibrosis: Can the Number of Measurements Be Reduced?. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2569-2577.	0.7	1
13	Ultrasound-guided delivery of thymidine kinase ¹ nitroreductase dual therapeutic genes by PEGylated-PLGA/PEI nanoparticles for enhanced triple negative breast cancer therapy. <i>Nanomedicine</i> , 2018, 13, 1051-1066.	1.7	33
14	US Molecular Imaging of Acute Ileitis: Anti-Inflammatory Treatment Response Monitored with Targeted Microbubbles in a Preclinical Model. <i>Radiology</i> , 2018, 289, 90-100.	3.6	9
15	Contrast-enhanced ultrasound of malignant liver lesions. <i>Abdominal Radiology</i> , 2018, 43, 819-847.	1.0	57
16	Molecular Contrast-Enhanced Ultrasound Imaging of Radiation-Induced P-Selectin Expression in Healthy Mice Colon. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 581-585.	0.4	9
17	Reduced dose CT with model-based iterative reconstruction compared to standard dose CT of the chest, abdomen, and pelvis in oncology patients: intra-individual comparison study on image quality and lesion conspicuity. <i>Abdominal Radiology</i> , 2017, 42, 2279-2288.	1.0	23
18	American College of Radiology Contrast Enhanced Ultrasound Liver Imaging Reporting and Data System (CEUS LI-RADS) for the diagnosis of Hepatocellular Carcinoma: a pictorial essay. <i>Ultraschall in Der Medizin</i> , 2017, 38, 320-324.	0.8	84

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19	Contrast Enhanced Ultrasound (CEUS) Liver Imaging Reporting and Data System (LI-RADS®): the official version by the American College of Radiology (ACR). <i>Ultraschall in Der Medizin</i> , 2017, 38, 85-86.	0.8	110
20	Intra-Individual Comparison between 2-D Shear Wave Elastography (GE System) and Virtual Touch Tissue Quantification (Siemens System) in Grading Liver Fibrosis. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 2774-2782.	0.7	14
21	Early prediction of tumor response to bevacizumab treatment in murine colon cancer models using three-dimensional dynamic contrast-enhanced ultrasound imaging. <i>Angiogenesis</i> , 2017, 20, 547-555.	3.7	26
22	Intra-Animal Comparison between Three-dimensional Molecularly Targeted US and Three-dimensional Dynamic Contrast-enhanced US for Early Antiangiogenic Treatment Assessment in Colon Cancer. <i>Radiology</i> , 2017, 282, 443-452.	3.6	25
23	Quantitative Three-Dimensional Dynamic Contrast-Enhanced Ultrasound Imaging: First-In-Human Pilot Study in Patients with Liver Metastases. <i>Theranostics</i> , 2017, 7, 3745-3758.	4.6	35
24	Spectroscopic Photoacoustic Molecular Imaging of Breast Cancer using a B7-H3-targeted ICG Contrast Agent. <i>Theranostics</i> , 2017, 7, 1463-1476.	4.6	56
25	Ultrasound-guided drug delivery in cancer. <i>Ultrasonography</i> , 2017, 36, 171-184.	1.0	143
26	Ultrasound Molecular Imaging With BR55 in Patients With Breast and Ovarian Lesions: First-in-Human Results. <i>Journal of Clinical Oncology</i> , 2017, 35, 2133-2140.	0.8	178
27	Ultrasound Molecular Imaging of the Breast Cancer Neovasculature using Engineered Fibronectin Scaffold Ligands: A Novel Class of Targeted Contrast Ultrasound Agent. <i>Theranostics</i> , 2016, 6, 1740-1752.	4.6	38
28	VEGFR2-Targeted Three-Dimensional Ultrasound Imaging Can Predict Responses to Antiangiogenic Therapy in Preclinical Models of Colon Cancer. <i>Cancer Research</i> , 2016, 76, 4081-4089.	0.4	38
29	Ultrasound-guided therapeutic modulation of hepatocellular carcinoma using complementary microRNAs. <i>Journal of Controlled Release</i> , 2016, 238, 272-280.	4.8	62
30	Photoacoustic Imaging in Oncology: Translational Preclinical and Early Clinical Experience. <i>Radiology</i> , 2016, 280, 332-349.	3.6	153
31	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction. <i>Radiology</i> , 2016, 280, 815-825.	3.6	12
32	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging. <i>Radiology</i> , 2016, 280, 826-836.	3.6	12
33	Sonoporation: Applications for Cancer Therapy. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 263-291.	0.8	43
34	Clinical photoacoustic imaging of cancer. <i>Ultrasonography</i> , 2016, 35, 267-280.	1.0	123
35	Three-Dimensional Ultrasound Molecular Imaging of Angiogenesis in Colon Cancer Using a Clinical Matrix Array Ultrasound Transducer. <i>Investigative Radiology</i> , 2015, 50, 322-329.	3.5	43
36	Assessment of Inflammation in an Acute on Chronic Model of Inflammatory Bowel Disease with Ultrasound Molecular Imaging. <i>Theranostics</i> , 2015, 5, 1175-1186.	4.6	36

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37	Vascular Endothelial Growth Factor Receptor Type 2â€“targeted Contrast-enhanced US of Pancreatic Cancer Neovasculature in a Genetically Engineered Mouse Model: Potential for Earlier Detection. <i>Radiology</i> , 2015, 274, 790-799.	3.6	59
38	Ultrasound molecular imaging: Moving toward clinical translation. <i>European Journal of Radiology</i> , 2015, 84, 1685-1693.	1.2	168
39	Polymer Nanoparticles Mediated Codelivery of AntimiR-10b and AntimiR-21 for Achieving Triple Negative Breast Cancer Therapy. <i>ACS Nano</i> , 2015, 9, 2290-2302.	7.3	221
40	Ultrasound-guided delivery of microRNA loaded nanoparticles into cancer. <i>Journal of Controlled Release</i> , 2015, 203, 99-108.	4.8	128
41	Breast Cancer Detection by B7-H3â€“Targeted Ultrasound Molecular Imaging. <i>Cancer Research</i> , 2015, 75, 2501-2509.	0.4	90
42	Three-dimensional Dynamic Contrast-enhanced US Imaging for Early Antiangiogenic Treatment Assessment in a Mouse Colon Cancer Model. <i>Radiology</i> , 2015, 277, 424-434.	3.6	32
43	Quantitative Assessment of Inflammation in a Porcine Acute Terminal Ileitis Model: US with a Molecularly Targeted Contrast Agent. <i>Radiology</i> , 2015, 276, 809-817.	3.6	29
44	Combining in Vitro Diagnostics with in Vivo Imaging for Earlier Detection of Pancreatic Ductal Adenocarcinoma: Challenges and Solutions. <i>Radiology</i> , 2015, 277, 644-661.	3.6	23
45	Multiparametric Spectroscopic Photoacoustic Imaging of Breast Cancer Development in a Transgenic Mouse Model. <i>Theranostics</i> , 2014, 4, 1062-1071.	4.6	44
46	Stromal response to Hedgehog signaling restrains pancreatic cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3091-100.	3.3	421
47	CT Perfusion of the Liver: Principles and Applications in Oncology. <i>Radiology</i> , 2014, 272, 322-344.	3.6	154
48	Ultrasound Molecular Imaging in a Human CD276 Expressionâ€“Modulated Murine Ovarian Cancer Model. <i>Clinical Cancer Research</i> , 2014, 20, 1313-1322.	3.2	39
49	Ultrasound and Microbubble Guided Drug Delivery: Mechanistic Understanding and Clinical Implications. <i>Current Pharmaceutical Biotechnology</i> , 2014, 14, 743-752.	0.9	113
50	Detection of Pancreatic Ductal Adenocarcinoma in Mice by Ultrasound Imaging of Thymocyte Differentiation Antigen 1. <i>Gastroenterology</i> , 2013, 145, 885-894.e3.	0.6	63
51	New Technologies in Clinical Ultrasound. <i>Seminars in Roentgenology</i> , 2013, 48, 214-223.	0.2	31
52	Ultrasound and Microbubbleâ€“Mediated Gene Delivery in Cancer. <i>Investigative Radiology</i> , 2013, 48, 755-769.	3.5	36
53	Molecular Imaging of Inflammation in Inflammatory Bowel Disease with a Clinically Translatable Dual-Selectinâ€“targeted US Contrast Agent: Comparison with FDG PET/CT in a Mouse Model. <i>Radiology</i> , 2013, 267, 818-829.	3.6	60
54	Acoustic and Photoacoustic Molecular Imaging of Cancer. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1851-1854.	2.8	92

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55	Earlier Detection of Breast Cancer with Ultrasound Molecular Imaging in a Transgenic Mouse Model. <i>Cancer Research</i> , 2013, 73, 1689-1698.	0.4	85
56	Quantification and Monitoring of Inflammation in Murine Inflammatory Bowel Disease with Targeted Contrast-enhanced US. <i>Radiology</i> , 2012, 262, 172-180.	3.6	71
57	Cationic versus Neutral Microbubbles for Ultrasound-mediated Gene Delivery in Cancer. <i>Radiology</i> , 2012, 264, 721-732.	3.6	99
58	Pharmacokinetically Stabilized Cystine Knot Peptides That Bind Alpha-v-Beta-6 Integrin with Single-Digit Nanomolar Affinities for Detection of Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2012, 18, 839-849.	3.2	95
59	Molecular Body Imaging: MR Imaging, CT, and US. Part I. Principles. <i>Radiology</i> , 2012, 263, 633-643.	3.6	193
60	Antiangiogenic and Radiation Therapy. <i>Investigative Radiology</i> , 2012, 47, 25-32.	3.5	40
61	Ultrasound Molecular Imaging Contrast Agent Binding to Both E- and P-Selectin in Different Species. <i>Investigative Radiology</i> , 2012, 47, 516-523.	3.5	52
62	Quantitative assessment of tumor angiogenesis using real-time motion-compensated contrast-enhanced ultrasound imaging. <i>Angiogenesis</i> , 2012, 15, 433-442.	3.7	26
63	Î²-Catenin Regulates Hepatic Mitochondrial Function and Energy Balance in Mice. <i>Gastroenterology</i> , 2012, 143, 754-764.	0.6	79
64	Stromal galectin-1 expression is associated with long-term survival in resectable pancreatic ductal adenocarcinoma. <i>Cancer Biology and Therapy</i> , 2012, 13, 899-907.	1.5	56
65	Ultrasound-Mediated Gene Delivery with Cationic Versus Neutral Microbubbles: Effect of DNA and Microbubble Dose on <i>In Vivo</i> Transfection Efficiency. <i>Theranostics</i> , 2012, 2, 1078-1091.	4.6	83
66	Molecular Body Imaging: MR Imaging, CT, and US. Part II. Applications. <i>Radiology</i> , 2012, 264, 349-368.	3.6	61
67	Adenocarcinoma of the uncinate process of the pancreas: MDCT patterns of local invasion and clinical features at presentation. <i>European Radiology</i> , 2012, 22, 1067-1074.	2.3	31
68	Incidentally discovered solid pancreatic masses: imaging and clinical observations. <i>Abdominal Imaging</i> , 2012, 37, 91-97.	2.0	23
69	Targeted Contrast-Enhanced Ultrasound: An Emerging Technology in Abdominal and Pelvic Imaging. <i>Gastroenterology</i> , 2011, , .	0.6	0
70	Targeted Contrast-Enhanced Ultrasound: An Emerging Technology in Abdominal and Pelvic Imaging. <i>Gastroenterology</i> , 2011, 140, 785-790.e6.	0.6	54
71	Assessment and Monitoring Tumor Vascularity With Contrast-Enhanced Ultrasound Maximum Intensity Persistence Imaging. <i>Investigative Radiology</i> , 2011, 46, 187-195.	3.5	56
72	Early Diagnosis of Ovarian Carcinoma: Is a Solution in Sight?. <i>Radiology</i> , 2011, 259, 329-345.	3.6	82

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73	Tumor Angiogenic Marker Expression Levels during Tumor Growth: Longitudinal Assessment with Molecularly Targeted Microbubbles and US Imaging. <i>Radiology</i> , 2011, 258, 804-811.	3.6	123
74	Molecular ultrasound assessment of tumor angiogenesis. <i>Angiogenesis</i> , 2010, 13, 175-188.	3.7	79
75	Antioxidants Improve Early Survival of Cardiomyoblasts After Transplantation to the Myocardium. <i>Molecular Imaging and Biology</i> , 2010, 12, 325-334.	1.3	26
76	Targeted Contrast-Enhanced Ultrasound Imaging of Tumor Angiogenesis with Contrast Microbubbles Conjugated to Integrin-Binding Knottin Peptides. <i>Journal of Nuclear Medicine</i> , 2010, 51, 433-440.	2.8	156
77	Antiangiogenic Cancer Therapy: Monitoring with Molecular US and a Clinically Translatable Contrast Agent (BR55). <i>Radiology</i> , 2010, 256, 519-527.	3.6	158
78	Pathways of Extrapaneatic Perineural Invasion by Pancreatic Adenocarcinoma: Evaluation With 3D Volume-Rendered MDCT Imaging. <i>American Journal of Roentgenology</i> , 2010, 194, 668-674.	1.0	61
79	Focal Liver Lesions: Detection and Characterization at Double-Contrast Liver MR Imaging with Ferucarbotran and Gadobutrol versus Single-Contrast Liver MR Imaging. <i>Radiology</i> , 2009, 253, 724-733.	3.6	23
80	Evaluation of Periampullary Pathology With CT Volumetric Oblique Coronal Reformations. <i>American Journal of Roentgenology</i> , 2009, 193, W202-W208.	1.0	24
81	Imaging Gene Expression in Human Mesenchymal Stem Cells: From Small to Large Animals. <i>Radiology</i> , 2009, 252, 117-127.	3.6	83
82	Comparison of Optical Bioluminescence Reporter Gene and Superparamagnetic Iron Oxide MR Contrast Agent as Cell Markers for Noninvasive Imaging of Cardiac Cell Transplantation. <i>Molecular Imaging and Biology</i> , 2009, 11, 178-187.	1.3	84
83	MR angiography with parallel acquisition for assessment of the visceral arteries: comparison with conventional MR angiography and 64-detector-row computed tomography. <i>European Radiology</i> , 2009, 19, 2679-2688.	2.3	3
84	Molecular imaging in drug development. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 591-607.	21.5	1,000
85	Reporter Gene Imaging Following Percutaneous Delivery in Swine. <i>Journal of the American College of Cardiology</i> , 2008, 51, 595-597.	1.2	20
86	US Imaging of Tumor Angiogenesis with Microbubbles Targeted to Vascular Endothelial Growth Factor Receptor Type 2 in Mice. <i>Radiology</i> , 2008, 246, 508-518.	3.6	293
87	Monitoring of the Biological Response to Murine Hindlimb Ischemia With ⁶⁴ Cu-Labeled Vascular Endothelial Growth Factor-121 Positron Emission Tomography. <i>Circulation</i> , 2008, 117, 915-922.	1.6	69
88	Imaging of VEGF Receptor in a Rat Myocardial Infarction Model Using PET. <i>Journal of Nuclear Medicine</i> , 2008, 49, 667-673.	2.8	102
89	Targeted Microbubbles for Imaging Tumor Angiogenesis: Assessment of Whole-Body Biodistribution with Dynamic Micro-PET in Mice. <i>Radiology</i> , 2008, 249, 212-219.	3.6	175
90	Dual-targeted Contrast Agent for US Assessment of Tumor Angiogenesis in Vivo. <i>Radiology</i> , 2008, 248, 936-944.	3.6	206

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91	Recurrent Lower-Limb Varicose Veins: Effect of Direct Contrast-enhanced Three-dimensional MR Venographic Findings on Diagnostic Thinking and Therapeutic Decisions. Radiology, 2008, 247, 887-895.	3.6	15