

Jürgen K Willmann

List of Publications by Year in descending order

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91
papers

7,470
citations

44069

48
h-index

53230

85
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93
all docs

93
docs citations

93
times ranked

9545
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular imaging in drug development. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 591-607.	46.4	1,000
2	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.	7.1	421
3	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.	7.3	293
4	How to perform Contrast-Enhanced Ultrasound (CEUS). <i>Ultrasound International Open</i> , 2018, 04, E2-E15.	0.6	222
5	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.	14.6	221
6	Dual-targeted Contrast Agent for US Assessment of Tumor Angiogenesis in Vivo. <i>Radiology</i> , 2008, 248, 936-944.	7.3	206
7	Molecular Body Imaging: MR Imaging, CT, and US. Part I. Principles. <i>Radiology</i> , 2012, 263, 633-643.	7.3	193
8	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.	1.6	178
9	Targeted Microbubbles for Imaging Tumor Angiogenesis: Assessment of Whole-Body Biodistribution with Dynamic Micro-PET in Mice. <i>Radiology</i> , 2008, 249, 212-219.	7.3	175
10	Ultrasound molecular imaging: Moving toward clinical translation. <i>European Journal of Radiology</i> , 2015, 84, 1685-1693.	2.6	168
11	Antiangiogenic Cancer Therapy: Monitoring with Molecular US and a Clinically Translatable Contrast Agent (BR55). <i>Radiology</i> , 2010, 256, 519-527.	7.3	158
12	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.	5.0	156
13	CT Perfusion of the Liver: Principles and Applications in Oncology. <i>Radiology</i> , 2014, 272, 322-344.	7.3	154
14	Photoacoustic Imaging in Oncology: Translational Preclinical and Early Clinical Experience. <i>Radiology</i> , 2016, 280, 332-349.	7.3	153
15	Ultrasound-guided drug delivery in cancer. <i>Ultrasonography</i> , 2017, 36, 171-184.	2.3	143
16	Ultrasound-guided delivery of microRNA loaded nanoparticles into cancer. <i>Journal of Controlled Release</i> , 2015, 203, 99-108.	9.9	128
17	Tumor Angiogenic Marker Expression Levels during Tumor Growth: Longitudinal Assessment with Molecularly Targeted Microbubbles and US Imaging. <i>Radiology</i> , 2011, 258, 804-811.	7.3	123
18	Clinical photoacoustic imaging of cancer. <i>Ultrasonography</i> , 2016, 35, 267-280.	2.3	123

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19	Ultrasound and Microbubble Guided Drug Delivery: Mechanistic Understanding and Clinical Implications. <i>Current Pharmaceutical Biotechnology</i> , 2014, 14, 743-752.	1.6	113
20	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.	1.5	110
21	Imaging of VEGF Receptor in a Rat Myocardial Infarction Model Using PET. <i>Journal of Nuclear Medicine</i> , 2008, 49, 667-673.	5.0	102
22	Cationic versus Neutral Microbubbles for Ultrasound-mediated Gene Delivery in Cancer. <i>Radiology</i> , 2012, 264, 721-732.	7.3	99
23	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.	7.0	95
24	Acoustic and Photoacoustic Molecular Imaging of Cancer. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1851-1854.	5.0	92
25	Breast Cancer Detection by B7-H3â€“Targeted Ultrasound Molecular Imaging. <i>Cancer Research</i> , 2015, 75, 2501-2509.	0.9	90
26	Earlier Detection of Breast Cancer with Ultrasound Molecular Imaging in a Transgenic Mouse Model. <i>Cancer Research</i> , 2013, 73, 1689-1698.	0.9	85
27	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.	2.6	84
28	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.	1.5	84
29	Imaging Gene Expression in Human Mesenchymal Stem Cells: From Small to Large Animals. <i>Radiology</i> , 2009, 252, 117-127.	7.3	83
30	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.	10.0	83
31	Early Diagnosis of Ovarian Carcinoma: Is a Solution in Sight?. <i>Radiology</i> , 2011, 259, 329-345.	7.3	82
32	Molecular ultrasound assessment of tumor angiogenesis. <i>Angiogenesis</i> , 2010, 13, 175-188.	7.2	79
33	Î²-Catenin Regulates Hepatic Mitochondrial Function and Energy Balance in Mice. <i>Gastroenterology</i> , 2012, 143, 754-764.	1.3	79
34	Evaluation of integrin Î±vÎ²6 cystine knot PET tracers to detect cancer and idiopathic pulmonary fibrosis. <i>Nature Communications</i> , 2019, 10, 4673.	12.8	73
35	Quantification and Monitoring of Inflammation in Murine Inflammatory Bowel Disease with Targeted Contrast-enhanced US. <i>Radiology</i> , 2012, 262, 172-180.	7.3	71
36	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

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37	Detection of Pancreatic Ductal Adenocarcinoma in Mice by Ultrasound Imaging of Thymocyte Differentiation Antigen 1. <i>Gastroenterology</i> , 2013, 145, 885-894.e3.	1.3	63
38	Ultrasound-guided therapeutic modulation of hepatocellular carcinoma using complementary microRNAs. <i>Journal of Controlled Release</i> , 2016, 238, 272-280.	9.9	62
39	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.	2.2	61
40	Molecular Body Imaging: MR Imaging, CT, and US. Part II. Applications. <i>Radiology</i> , 2012, 264, 349-368.	7.3	61
41	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.	7.3	60
42	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.	7.3	59
43	Contrast-enhanced ultrasound of malignant liver lesions. <i>Abdominal Radiology</i> , 2018, 43, 819-847.	2.1	57
44	Assessment and Monitoring Tumor Vascularity With Contrast-Enhanced Ultrasound Maximum Intensity Persistence Imaging. <i>Investigative Radiology</i> , 2011, 46, 187-195.	6.2	56
45	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.	3.4	56
46	Spectroscopic Photoacoustic Molecular Imaging of Breast Cancer using a B7-H3-targeted ICG Contrast Agent. <i>Theranostics</i> , 2017, 7, 1463-1476.	10.0	56
47	Targeted Contrast-Enhanced Ultrasound: An Emerging Technology in Abdominal and Pelvic Imaging. <i>Gastroenterology</i> , 2011, 140, 785-790.e6.	1.3	54
48	Ultrasound Molecular Imaging Contrast Agent Binding to Both E- and P-Selectin in Different Species. <i>Investigative Radiology</i> , 2012, 47, 516-523.	6.2	52
49	Multiparametric Spectroscopic Photoacoustic Imaging of Breast Cancer Development in a Transgenic Mouse Model. <i>Theranostics</i> , 2014, 4, 1062-1071.	10.0	44
50	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.	6.2	43
51	Sonoporation: Applications for Cancer Therapy. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 263-291.	1.6	43
52	Antiangiogenic and Radiation Therapy. <i>Investigative Radiology</i> , 2012, 47, 25-32.	6.2	40
53	Ultrasound Molecular Imaging in a Human CD276 Expressionâ€Modulated Murine Ovarian Cancer Model. <i>Clinical Cancer Research</i> , 2014, 20, 1313-1322.	7.0	39
54	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.	10.0	38

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55	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.	0.9	38
56	Ultrasound and Microbubble-Mediated Gene Delivery in Cancer. <i>Investigative Radiology</i> , 2013, 48, 755-769.	6.2	36
57	Assessment of Inflammation in an Acute on Chronic Model of Inflammatory Bowel Disease with Ultrasound Molecular Imaging. <i>Theranostics</i> , 2015, 5, 1175-1186.	10.0	36
58	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.	10.0	35
59	Intraoperative Resection Guidance with Photoacoustic and Fluorescence Molecular Imaging Using an Anti-B7-H3 Antibody-Indocyanine Green Dual Contrast Agent. <i>Clinical Cancer Research</i> , 2018, 24, 3572-3582.	7.0	33
60	Ultrasound-guided delivery of thymidine kinase-nitroreductase dual therapeutic genes by PEGylated-PLGA/PEI nanoparticles for enhanced triple negative breast cancer therapy. <i>Nanomedicine</i> , 2018, 13, 1051-1066.	3.3	33
61	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.	7.3	32
62	Thy1-Targeted Microbubbles for Ultrasound Molecular Imaging of Pancreatic Ductal Adenocarcinoma. <i>Clinical Cancer Research</i> , 2018, 24, 1574-1585.	7.0	32
63	Adenocarcinoma of the uncinata process of the pancreas: MDCT patterns of local invasion and clinical features at presentation. <i>European Radiology</i> , 2012, 22, 1067-1074.	4.5	31
64	New Technologies in Clinical Ultrasound. <i>Seminars in Roentgenology</i> , 2013, 48, 214-223.	0.6	31
65	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.	7.3	29
66	Antioxidants Improve Early Survival of Cardiomyoblasts After Transplantation to the Myocardium. <i>Molecular Imaging and Biology</i> , 2010, 12, 325-334.	2.6	26
67	Quantitative assessment of tumor angiogenesis using real-time motion-compensated contrast-enhanced ultrasound imaging. <i>Angiogenesis</i> , 2012, 15, 433-442.	7.2	26
68	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.	7.2	26
69	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.	7.3	25
70	Evaluation of Periampullary Pathology With CT Volumetric Oblique Coronal Reformations. <i>American Journal of Roentgenology</i> , 2009, 193, W202-W208.	2.2	24
71	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.	7.3	23
72	Incidentally discovered solid pancreatic masses: imaging and clinical observations. <i>Abdominal Imaging</i> , 2012, 37, 91-97.	2.0	23

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73	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.	7.3	23
74	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.	2.1	23
75	Reporter Gene Imaging Following Percutaneous Delivery in Swine. <i>Journal of the American College of Cardiology</i> , 2008, 51, 595-597.	2.8	20
76	Recurrent Lower-Limb Varicose Veins: Effect of Direct Contrast-enhanced Three-dimensional MR Venographic Findings on Diagnostic Thinking and Therapeutic Decisions. <i>Radiology</i> , 2008, 247, 887-895.	7.3	15
77	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.	1.5	14
78	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.	7.3	12
79	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.	7.3	12
80	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.	1.5	10
81	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.	0.8	9
82	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.	7.3	9
83	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.	2.6	9
84	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.	3.3	9
85	Quantitative Ultrasound Spectroscopy for Differentiation of Hepatocellular Carcinoma from At-Risk and Normal Liver Parenchyma. <i>Clinical Cancer Research</i> , 2019, 25, 6683-6691.	7.0	8
86	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.	2.6	6
87	A multi-model framework to estimate perfusion parameters using contrast-enhanced ultrasound imaging. <i>Medical Physics</i> , 2019, 46, 590-600.	3.0	5
88	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.	4.5	3
89	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.	4.5	1
90	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.	1.5	1

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91	Targeted Contrast-Enhanced Ultrasound: An Emerging Technology in Abdominal and Pelvic Imaging. Gastroenterology, 2011, , .	1.3	0