

Jürgen K Willmann

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

7,470
citations

44042

48
h-index

53190

85
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93
all docs

93
docs citations

93
times ranked

9545
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-B7-H3 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/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 |