

# Jörg Barkhausen

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

625  
citations

567281

15  
h-index

713466

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Particle Imaging: Visualization of Instruments for Cardiovascular Intervention. <i>Radiology</i> , 2012, 265, 933-938.	7.3	110
2	Magnetic Particle Imaging (MPI): Experimental Quantification of Vascular Stenosis Using Stationary Stenosis Phantoms. <i>PLoS ONE</i> , 2017, 12, e0168902.	2.5	57
3	Time-resolved 3-dimensional magnetic resonance phase contrast imaging (4D Flow MRI) analysis of hemodynamics in valve-sparing aortic root repair with an anatomically shaped sinus prosthesis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 152, 418-427.e1.	0.8	52
4	Lack of weight gain after angiotensin $\text{AT}_1$ receptor blockade in diet-induced obesity is partly mediated by an angiotensin $\text{M}$ -dependent pathway. <i>British Journal of Pharmacology</i> , 2015, 172, 3764-3778.	5.4	47
5	Multi-color magnetic particle imaging for cardiovascular interventions. <i>Physics in Medicine and Biology</i> , 2016, 61, N415-N426.	3.0	46
6	Toward cardiovascular interventions guided by magnetic particle imaging: First instrument characterization. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1761-1767.	3.0	42
7	Magnetic Particle Imaging: A Resovist Based Marking Technology for Guide Wires and Catheters for Vascular Interventions. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2312-2318.	8.9	36
8	Navigation of a magnetic micro-robot through a cerebral aneurysm phantom with magnetic particle imaging. <i>Scientific Reports</i> , 2021, 11, 14082.	3.3	31
9	Time-resolved 3-dimensional magnetic resonance phase contrast imaging (4D Flow MRI) reveals altered blood flow patterns in the ascending aorta of patients with valve-sparing aortic root replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 159, 798-810.e1.	0.8	28
10	Safety Measurements for Heating of Instruments for Cardiovascular Interventions in Magnetic Particle Imaging (MPI) - First Experiences. <i>Journal of Healthcare Engineering</i> , 2014, 5, 79-94.	1.9	26
11	Comparison of 4D Flow MRI to 2D Flow MRI in the pulmonary arteries in healthy volunteers and patients with pulmonary hypertension. <i>PLoS ONE</i> , 2019, 14, e0224121.	2.5	25
12	The brain renin-angiotensin system plays a crucial role in regulating body weight in diet-induced obesity in rats. <i>British Journal of Pharmacology</i> , 2016, 173, 1602-1617.	5.4	24
13	Comparison of commercial iron oxide-based MRI contrast agents with synthesized high-performance MPI tracers. <i>Biomedizinische Technik</i> , 2013, 58, 527-33.	0.8	23
14	White Paper: Interventional MRI: Current Status and Potential for Development Considering Economic Perspectives, Part 1: General Application. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2017, 189, 611-623.	1.3	22
15	First heating measurements of endovascular stents in magnetic particle imaging. <i>Physics in Medicine and Biology</i> , 2018, 63, 045005.	3.0	20
16	Magnetic Particle Imaging: Artifact-Free Metallic Stent Lumen Imaging in a Phantom Study. <i>CardioVascular and Interventional Radiology</i> , 2020, 43, 331-338.	2.0	12
17	Histomorphological analysis of false positive PI-RADS 4 and 5 lesions. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2020, 38, 636.e7-636.e12.	1.6	7
18	Magnetic Particle Imaging: In vitro Signal Analysis and Lumen Quantification of 21 Endovascular Stents. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 213-221.	6.7	7

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19	4D flow CMR analysis comparing patients with anatomically shaped aortic sinus prostheses, tube prostheses and healthy subjects introducing the wall shear stress gradient: a case control study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 59.	3.3	6
20	Statement of the German Roentgen Society, German Society of Neuroradiology, and Society of German-speaking Pediatric Radiologists on Requirements for the Performance and Reporting of MR Imaging Examinations Outside of Radiology. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2021, 193, 1050-1061.	1.3	2
21	Comprehensive analysis of haemodynamics in patients with physiologically curved prostheses of the ascending aorta. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, , .	1.4	1
22	Bimodal Interventional Instrument Markers for Magnetic Particle Imaging and Magnetic Resonance Imaging – A Proof-of-Concept Study. <i>Nanomaterials</i> , 2022, 12, 1758.	4.1	1
23	CT of Mounier-Kuhn Disease. <i>Radiology</i> , 2020, 294, 246-246.	7.3	0