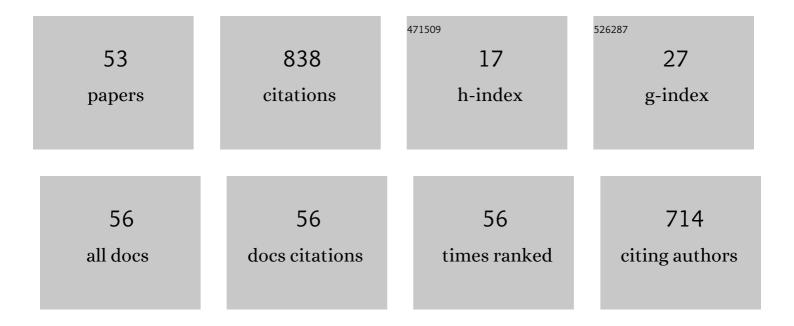
Volker C Behr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A dynamic bolus phantom for the evaluation of the spatio-temporal resolution of MPI scanners. Journal of Magnetism and Magnetic Materials, 2021, 519, 167446.	2.3	1
2	Near real-time magnetic particle imaging for visual assessment of vascular stenosis in a phantom model. Physica Medica, 2021, 81, 210-214.	0.7	7
3	Magnetic particle imaging for artifact-free imaging of intracranial flow diverter stents: A phantom study. Physica Medica, 2021, 88, 65-70.	0.7	4
4	Adjustable Hardware Lens for Traveling Wave Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2020, 56, 1-6.	2.1	6
5	Novel Fabrication Method for Nested Saddle Coils. IEEE Transactions on Magnetics, 2020, 56, 1-6.	2.1	0
6	Dewatering Green Sapwood Using Carbon Dioxide Undergoing Cyclical Phase Change between Supercritical Fluid and Gas. Molecules, 2020, 25, 5367.	3.8	5
7	Wall shear stress analysis using 17.6 Tesla MRI: A longitudinal study in ApoE-/- mice with histological analysis. PLoS ONE, 2020, 15, e0238112.	2.5	3
8	Crosslinked Coating Improves the Signalâ€ŧoâ€Noise Ratio of Iron Oxide Nanoparticles in Magnetic Particle Imaging (MPI). ChemNanoMat, 2020, 6, 755-758.	2.8	5
9	Superspeed Bolus Visualization for Vascular Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 2133-2139.	8.9	25
10	Parallel magnetic particle imaging. Review of Scientific Instruments, 2020, 91, 045117.	1.3	5
11	Micro-Traveling Wave Magnetic Particle Imaging—Sub-Millimeter Resolution With Optimized Tracer LS-008. IEEE Transactions on Magnetics, 2019, 55, 1-7.	2.1	28
12	Magnetic Particle Imaging meets Computed Tomography: first simultaneous imaging. Scientific Reports, 2019, 9, 12627.	3.3	38
13	Magnetic Particle Imaging–Guided Stenting. Journal of Endovascular Therapy, 2019, 26, 512-519.	1.5	34
14	Uncovering supercritical CO2 wood dewatering via interleaved 1H-imaging and 13C-spectroscopy with real-time reconstruction. Journal of Supercritical Fluids, 2019, 144, 56-62.	3.2	10
15	Magnetic Particle Imaging Guided Real-Time Percutaneous Transluminal Angioplasty in a Phantom Model. CardioVascular and Interventional Radiology, 2018, 41, 1100-1105.	2.0	35
16	Dynamic Linear Gradient Array for Traveling Wave Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2018, 54, 1-9.	2.1	11
17	Magnetic Particle Imaging for Quantification of Vascular Stenoses: A Phantom Study. IEEE Transactions on Medical Imaging, 2018, 37, 61-67.	8.9	30
18	Poster session 1. Imaging and image processing I. Biomedizinische Technik, 2017, 62, .	0.8	0

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#	Article	IF	CITATIONS
19	First <i>in vivo</i> traveling wave magnetic particle imaging of a beating mouse heart. Physics in Medicine and Biology, 2016, 61, 6620-6634.	3.0	48
20	Proton magnetic resonance imaging used to investigate dewatering of green sapwood by cycling carbon dioxide between supercritical fluid and gas phase. Journal of Supercritical Fluids, 2016, 111, 36-42.	3.2	15
21	Analysis of the Noise Correlation in MRI Coil Arrays Loaded With Metamaterial Magnetoinductive Lenses. IEEE Transactions on Medical Imaging, 2015, 34, 1148-1154.	8.9	6
22	Bimodal TWMPI-MRI Hybrid Scanner—Coil Setup and Electronics. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	6
23	Rotational Drift Spectroscopy for Magnetic Particle Ensembles. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3
24	Simulating the Signal Generation of Rotational Drift Spectroscopy. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
25	Rotating Slice Scanning Mode for Traveling Wave MPI. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	14
26	Superspeed Traveling Wave Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	16
27	\$mu \$ MPI—Initial Experiments With an Ultrahigh Resolution MPI. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	10
28	Zero dead time rotational drift spectroscopy for magnetic particle ensembles. , 2015, , .		0
29	A comparative study of dewatering of <i>Pinus radiata</i> sapwood using supercritical CO ₂ and conventional forced air-drying via <i>in situ</i> magnetic resonance microimaging (MRI). Holzforschung, 2015, 69, 1137-1142.	1.9	16
30	Magnetic Particle Imaging. Zeitschrift Fur Medizinische Physik, 2015, 25, 1-2.	1.5	0
31	Bimodal TWMPI-MRI hybrid scanner — First NMR results. , 2015, , .		1
32	Traveling wave MPI goes pre-clinical application. , 2015, , .		0
33	Self diffusion coefficients of organic solvents and their binary mixtures with CO2 in silica alcogels at pressures up to 6MPa derived by NMR pulsed gradient spin echo. Journal of Supercritical Fluids, 2015, 106, 50-56.	3.2	10
34	Carbon-13 NMR chemical-shift imaging study of dewatering of green sapwood by cycling carbon dioxide between the supercritical fluid and gas phases. Journal of Supercritical Fluids, 2014, 95, 535-540.	3.2	13
35	MRI Meets MPI: A Bimodal MPI-MRI Tomograph. IEEE Transactions on Medical Imaging, 2014, 33, 1954-1959.	8.9	57
36	Traveling Wave Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2014, 33, 400-407.	8.9	73

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37	Metamaterial magnetoinductive lens performance as a function of field strength. Journal of Magnetic Resonance, 2014, 247, 9-14.	2.1	24
38	Slice scanning mode for traveling wave MPI. , 2013, , .		2
39	An advanced, integrated largeâ€volume highâ€pressure autoclave and 1h/13c doubleâ€tuned resonator for chemistry and materials nuclear magnetic resonance spectroscopy and microscopy investigations. Concepts in Magnetic Resonance Part B, 2013, 43, 49-58.	0.7	7
40	Numerically efficient estimation of relaxation effects in magnetic particle imaging. Biomedizinische Technik, 2013, 58, 593-600.	0.8	5
41	Analysis of the resolution of split-ring metamaterial lenses with application in parallel magnetic resonance imaging. Applied Physics Letters, 2011, 98, .	3.3	30
42	Nonlinear split-ring metamaterial slabs for magnetic resonance imaging. Applied Physics Letters, 2011, 98, .	3.3	45
43	Scanner Components. Methods in Molecular Biology, 2011, 771, 69-88.	0.9	0
44	Enhanced cortical reperfusion protects coagulation factor XII-deficient mice from ischemic stroke as revealed by high-field MRI. NeuroImage, 2010, 49, 2907-2914.	4.2	46
45	INVESTIGATION OF THE MAGNETIC PARTICLE IMAGING SIGNAL'S DEPENDENCY ON FERROFLUID CONCENTRATION. , 2010, , .		3
46	Sensitive J oupled metabolite mapping using Selâ€MQC with selective multiâ€spinâ€echo readout. Magnetic Resonance in Medicine, 2009, 62, 880-887.	3.0	10
47	Shortâ€echo spectroscopic imaging combined with lactate editing in a single scan. NMR in Biomedicine, 2008, 21, 1076-1086.	2.8	18
48	A novel modular probe base design. Concepts in Magnetic Resonance Part B, 2008, 33B, 55-61.	0.7	1
49	Transmit-receive coil-arrays at 17.6T, configurations for1H,23Na, and31P MRI. Concepts in Magnetic Resonance Part B, 2006, 29B, 20-27.	0.7	19
50	Inert fluorinated gas T1 calculator. Journal of Magnetic Resonance, 2005, 177, 212-220.	2.1	18
51	High-resolution MR imaging of the rat spinal cord in vivo in a wide-bore magnet at 17.6 Tesla. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 17, 353-358.	2.0	28
52	RF flux guides for excitation and reception in31P spectroscopic and imaging experiments at 2 Tesla. Concepts in Magnetic Resonance, 2004, 23B, 44-49.	1.3	11
53	Volume of rat lungs measured throughout the respiratory cycle using19F NMR of the inert gas SF6. Magnetic Resonance in Medicine, 2002, 48, 547-549.	3.0	27