

Thorsten M Buzug

List of Publications by Year in descending order

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234
papers

4,342
citations

147566

31
h-index

138251

58
g-index

261
all docs

261
docs citations

261
times ranked

2554
citing authors

#	ARTICLE	IF	CITATIONS
1	Landmark-based elastic registration using approximating thin-plate splines. IEEE Transactions on Medical Imaging, 2001, 20, 526-534.	5.4	338
2	Magnetic particle imaging: current developments and future directions. International Journal of Nanomedicine, 2015, 10, 3097.	3.3	217
3	Magnetization response spectroscopy of superparamagnetic nanoparticles for magnetic particle imaging. Journal Physics D: Applied Physics, 2009, 42, 205007.	1.3	197
4	Trajectory analysis for magnetic particle imaging. Physics in Medicine and Biology, 2009, 54, 385-397.	1.6	147
5	Weighted iterative reconstruction for magnetic particle imaging. Physics in Medicine and Biology, 2010, 55, 1577-1589.	1.6	142
6	Optimal delay time and embedding dimension for delay-time coordinates by analysis of the global static and local dynamical behavior of strange attractors. Physical Review A, 1992, 45, 7073-7084.	1.0	140
7	Model-Based Reconstruction for Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2010, 29, 12-18.	5.4	133
8	Single-sided device for magnetic particle imaging. Journal Physics D: Applied Physics, 2009, 42, 022001.	1.3	116
9	Magnetic Particle Imaging: Visualization of Instruments for Cardiovascular Intervention. Radiology, 2012, 265, 933-938.	3.6	110
10	Magnetic Particle Imaging. , 2012, , .		96
11	Towards Picogram Detection of Superparamagnetic Iron-Oxide Particles Using a Gradiometric Receive Coil. Scientific Reports, 2017, 7, 6872.	1.6	95
12	Comparison of algorithms calculating optimal embedding parameters for delay time coordinates. Physica D: Nonlinear Phenomena, 1992, 58, 127-137.	1.3	93
13	2D model-based reconstruction for magnetic particle imaging. Medical Physics, 2010, 37, 485-491.	1.6	82
14	Prediction of the Spatial Resolution of Magnetic Particle Imaging Using the Modulation Transfer Function of the Imaging Process. IEEE Transactions on Medical Imaging, 2011, 30, 1284-1292.	5.4	80
15	Magnetic particle imaging: Introduction to imaging and hardware realization. Zeitschrift Fur Medizinische Physik, 2012, 22, 323-334.	0.6	73
16	Nonlinear noise reduction: A case study on experimental data. Physical Review E, 1993, 48, 1529-1538.	0.8	72
17	Statistical Image Reconstruction for Inconsistent CT Projection Data. Methods of Information in Medicine, 2007, 46, 261-269.	0.7	64
18	Optimal Reconstruction of Strange Attractors from Purely Geometrical Arguments. Europhysics Letters, 1990, 13, 605-610.	0.7	53

#	ARTICLE	IF	CITATIONS
19	On the formulation of the image reconstruction problem in magnetic particle imaging. Biomedizinische Technik, 2013, 58, 583-91.	0.9	53
20	Analog receive signal processing for magnetic particle imaging. Medical Physics, 2013, 40, 042303.	1.6	50
21	Electronic Field Free Line Rotation and Relaxation Deconvolution in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2015, 34, 644-651.	5.4	50
22	2D Images Recorded With a Single-Sided Magnetic Particle Imaging Scanner. IEEE Transactions on Medical Imaging, 2016, 35, 1056-1065.	5.4	46
23	Functional Infrared Imaging for Skin-Cancer Screening. , 2006, 2006, 2766-9.		43
24	Artifact free reconstruction with the system matrix approach by overscanning the field-free-point trajectory in magnetic particle imaging. Physics in Medicine and Biology, 2016, 61, 475-487.	1.6	43
25	Residual U-Net Convolutional Neural Network Architecture for Low-Dose CT Denoising. Current Directions in Biomedical Engineering, 2018, 4, 297-300.	0.2	43
26	Efficient generation of a magnetic field-free line. Medical Physics, 2010, 37, 3538-3540.	1.6	42
27	Toward cardiovascular interventions guided by magnetic particle imaging: First instrument characterization. Magnetic Resonance in Medicine, 2013, 69, 1761-1767.	1.9	42
28	Field-free line formation in a magnetic field. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 012002.	0.7	40
29	Steering of Magnetic Devices With a Magnetic Particle Imaging System. IEEE Transactions on Biomedical Engineering, 2016, 63, 2286-2293.	2.5	40
30	Magnetic Particle Imaging meets Computed Tomography: first simultaneous imaging. Scientific Reports, 2019, 9, 12627.	1.6	38
31	A Fourier slice theorem for magnetic particle imaging using a field-free line. Inverse Problems, 2011, 27, 095004.	1.0	33
32	Hybrid system calibration for multidimensional magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3392-3406.	1.6	33
33	Einführung in die Computertomographie. , 2004, , .		32
34	Experimental generation of an arbitrarily rotated field-free line for the use in magnetic particle imaging. Medical Physics, 2011, 38, 5200-5207.	1.6	31
35	Navigation of a magnetic micro-robot through a cerebral aneurysm phantom with magnetic particle imaging. Scientific Reports, 2021, 11, 14082.	1.6	31
36	Image registration for DSA quality enhancement. Computerized Medical Imaging and Graphics, 1998, 22, 103-113.	3.5	30

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37	Polychromatic Iterative Statistical Material Image Reconstruction for Photon-Counting Computed Tomography. International Journal of Biomedical Imaging, 2016, 2016, 1-15.	3.0	30
38	Magnetic particle imaging: kinetics of the intravascular signal in vivo. International Journal of Nanomedicine, 2014, 9, 4203.	3.3	28
39	Mutual information and global strange attractors in Taylor-Couette flow. Physica D: Nonlinear Phenomena, 1994, 72, 343-350.	1.3	27
40	A fully 3D approach for metal artifact reduction in computed tomography. Medical Physics, 2012, 39, 7042-7054.	1.6	27
41	3D Reconstruction of dental specimens from 2D histological images and 1/4CT-Scans. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 167-176.	0.9	26
42	Generation of a static magnetic field-free line using two Maxwell coil pairs. Applied Physics Letters, 2010, 97, 092505.	1.5	26
43	Biophysical modeling of brain tumor progression: From unconditionally stable explicit time integration to an inverse problem with parabolic PDE constraints for model calibration. Medical Physics, 2012, 39, 4444-4459.	1.6	26
44	Safety Measurements for Heating of Instruments for Cardiovascular Interventions in Magnetic Particle Imaging (MPI) - First Experiences. Journal of Healthcare Engineering, 2014, 5, 79-94.	1.1	26
45	Non-Equispaced System Matrix Acquisition for Magnetic Particle Imaging Based on Lissajous Node Points. IEEE Transactions on Medical Imaging, 2016, 35, 2476-2485.	5.4	26
46	Magnetic particle imaging in vascular medicine. Innovative Surgical Sciences, 2018, 3, 179-192.	0.4	26
47	Image registration: Convex weighting functions for histogram-based similarity measures. Lecture Notes in Computer Science, 1997, , 203-212.	1.0	22
48	Simulation of the magnetization dynamics of diluted ferrofluids in medical applications. Biomedizinische Technik, 2013, 58, 601-9.	0.9	22
49	Actuation and visualization of a magnetically coated swimmer with magnetic particle imaging. Journal of Magnetism and Magnetic Materials, 2019, 473, 495-500.	1.0	22
50	Fractal dimensions of strange attractors obtained from the Taylor-Couette experiment. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 559-563.	1.2	21
51	Singular value analysis for Magnetic Particle Imaging. , 2008, , .		21
52	Fully automatic shape constrained mandible segmentation from cone-beam CT data. , 2012, , .		21
53	Bivariate Lagrange interpolation at the node points of non-degenerate Lissajous curves. Numerische Mathematik, 2016, 133, 685-705.	0.9	21
54	Characterization of experimental time series from Taylor-Couette flow. Physica D: Nonlinear Phenomena, 1992, 58, 441-454.	1.3	20

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55	Characterization of period-doubling scenarios in Taylor-Couette flow. <i>Physical Review E</i> , 1993, 47, 1054-1065.	0.8	20
56	Augmented Likelihood Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 158-173.	5.4	20
57	First heating measurements of endovascular stents in magnetic particle imaging. <i>Physics in Medicine and Biology</i> , 2018, 63, 045005.	1.6	20
58	Axisymmetric time-dependent flow in the Taylor-Couette system. <i>Physical Review E</i> , 1994, 49, 4019-4026.	0.8	18
59	Weighted simultaneous algebraic reconstruction technique for tomosynthesis imaging of objects with high attenuation features. <i>Medical Physics</i> , 2013, 40, 031106.	1.6	18
60	Using data redundancy gained by patch overlaps to reduce truncation artifacts in magnetic particle imaging. <i>Physics in Medicine and Biology</i> , 2016, 61, 4583-4598.	1.6	18
61	Dynamic single-domain particle model for magnetite particles with combined crystalline and shape anisotropy. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 275001.	1.3	17
62	Two dimensional magnetic particle spectrometry. <i>Physics in Medicine and Biology</i> , 2017, 62, 3378-3391.	1.6	17
63	Reference-free ground truth metric for metal artifact evaluation in CT images. <i>Medical Physics</i> , 2011, 38, 4321-4328.	1.6	16
64	Selective Actuation and Tomographic Imaging of Swarming Magnetite Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021, 4, 6752-6759.	2.4	16
65	System Calibration Unit for Magnetic Particle Imaging: Focus Field Based System Function. <i>Springer Proceedings in Physics</i> , 2012, , 27-31.	0.1	16
66	Consistency of parametric registration in serial MRI studies of brain tumor progression. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2008, 3, 201-211.	1.7	15
67	Coil Design for Magnetic Particle Imaging: Application for a Preclinical Scanner. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-8.	1.2	14
68	Trajectory dependent particle response for anisotropic mono domain particles in magnetic particle imaging. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 045007.	1.3	14
69	Noise reduction on chaotic attractors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 175, 178-186.	0.9	13
70	A Novel Method for Simulating the Extracellular Matrix in Models of Tumour Growth. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-11.	0.7	13
71	Preparation and Characterization of Dextran-Covered Fe ₃ O ₄ Nanoparticles for Magnetic Particle Imaging. <i>IFMBE Proceedings</i> , 2009, , 2343-2346.	0.2	12
72	Magnetic Particle Imaging: Artifact-Free Metallic Stent Lumen Imaging in a Phantom Study. <i>CardioVascular and Interventional Radiology</i> , 2020, 43, 331-338.	0.9	12

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73	Efficient hybrid 3D system calibration for magnetic particle imaging systems using a dedicated device. Scientific Reports, 2020, 10, 18432.	1.6	12
74	Recent developments in magnetic particle imaging. Journal of Magnetism and Magnetic Materials, 2022, 550, 169037.	1.0	12
75	Metal artifact reduction in computed tomography using nonequispaced fourier transform. , 2009, , .		11
76	In-silico oncology: an approximate model of brain tumor mass effect based on directly manipulated free form deformation. International Journal of Computer Assisted Radiology and Surgery, 2010, 5, 607-622.	1.7	11
77	Magnetic Particle Imaging. , 2011, , 461-476.		11
78	Efficient Magnetic Gradient Field Generation With Arbitrary Axial Displacement for Magnetic Particle Imaging. IEEE Magnetics Letters, 2012, 3, 6500104-6500104.	0.6	11
79	Influence of metal segmentation on the quality of metal artifact reduction methods. Proceedings of SPIE, 2013, , .	0.8	11
80	Efficient gradient field generation providing a multi-dimensional arbitrary shifted field-free point for magnetic particle imaging. Journal of Applied Physics, 2014, 115, .	1.1	11
81	Recent progress in magnetic particle imaging: from hardware to preclinical applications. Physics in Medicine and Biology, 2017, 62, E4-E7.	1.6	11
82	Modified MLEM Algorithm for Artifact Suppression in CT. , 2006, , .		10
83	A Generic Framework for Modeling Brain Deformation as a Constrained Parametric Optimization Problem to Aid Non-diffeomorphic Image Registration in Brain Tumor Imaging. Methods of Information in Medicine, 2012, 51, 429-440.	0.7	10
84	Using image segmentation for evaluating 3D statistical shape models built with groupwise correspondence optimization. Computer Vision and Image Understanding, 2014, 125, 283-303.	3.0	10
85	Tracking the Growth of Superparamagnetic Nanoparticles with an In-Situ Magnetic Particle Spectrometer (INSPECT). Scientific Reports, 2019, 9, 10538.	1.6	10
86	Magnetic-Particle-Imaging for Sentinel Lymph Node Biopsy in Breast Cancer. Springer Proceedings in Physics, 2012, , 237-241.	0.1	10
87	Evaluation of surrogate data quality in sinogram-based CT metal-artifact reduction. Proceedings of SPIE, 2008, , .	0.8	9
88	Reconstruction Enhancement by Denoising the Magnetic Particle Imaging System Matrix Using Frequency Domain Filter. IEEE Transactions on Magnetics, 2015, 51, 1-5.	1.2	9
89	Compressed Sensing of the System Matrix and Sparse Reconstruction of the Particle Concentration in Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	9
90	Improvement of dose calculation in radiation therapy due to metal artifact correction using the augmented likelihood image reconstruction. Journal of Applied Clinical Medical Physics, 2018, 19, 227-233.	0.8	9

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91	Frequency locking in axisymmetric Taylor-Couette flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 194, 173-178.	0.9	8
92	A high power driving and selection field coil for an open MPI scanner. , 2013, , .		8
93	Mathematical analysis of the 1D model and reconstruction schemes for magnetic particle imaging. Inverse Problems, 2018, 34, 055012.	1.0	8
94	A New Phantom for Individual Verification of the Dose Distribution in Precision Radiotherapy for Head-and-Neck Cancer. Anticancer Research, 2019, 39, 6931-6938.	0.5	8
95	Characterising experimental time series using local intrinsic dimension. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 202, 183-190.	0.9	7
96	Modelling of glioblastoma growth by linking a molecular interaction network with an agent-based model. Mathematical and Computer Modelling of Dynamical Systems, 2013, 19, 417-433.	1.4	7
97	Asymmetric Scanner Design for Interventional Scenarios in Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	7
98	Axially Elongated Field-Free Point Data Acquisition in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2015, 34, 381-387.	5.4	7
99	System Matrix Recording and Phantom Measurements with a Single-Sided Magnetic Particle Imaging Device. IEEE Transactions on Magnetics, 2015, 51, 1-3.	1.2	7
100	Take a Deep Breath - Monitoring of Inhaled Nanoparticles with Magnetic Particle Imaging. Theranostics, 2018, 8, 3691-3692.	4.6	7
101	Magnetic Particle Imaging: In vitro Signal Analysis and Lumen Quantification of 21 Endovascular Stents. International Journal of Nanomedicine, 2021, Volume 16, 213-221.	3.3	7
102	Heating of an Aortic Stent for Coarctation Treatment During Magnetic Particle Imaging and Magnetic Resonance Imaging—A Comparative In Vitro Study. CardioVascular and Interventional Radiology, 2021, 44, 1109-1115.	0.9	7
103	Moving table magnetic particle imaging: a stepwise approach preserving high spatio-temporal resolution. Journal of Medical Imaging, 2018, 5, 1.	0.8	7
104	Experimental Validation of an Assembly of Optimized Curved Rectangular Coils for the Use in Dynamic Field Free Line Magnetic Particle Imaging. Current Medical Imaging, 2013, 9, 89-95.	0.4	7
105	Monitoring of wound healing by millimetre wave imaging. , 2010, , .		6
106	A computational multiscale model of glioblastoma growth: Regulation of cell migration and proliferation via microRNA-451, LKB1 and AMPK. , 2012, 2012, 6620-3.		6
107	SPIO Detection and Distribution in Biological Tissue—A Murine MPI-SLNB Breast Cancer Model. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	6
108	Distribution of Superparamagnetic Nanoparticles in Lymphatic Tissue for Sentinel Lymph Node Detection in Breast Cancer by Magnetic Particle Imaging. Springer Proceedings in Physics, 2012, , 187-191.	0.1	6

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109	Fundamentals and Potential of Magnetic Particle Imaging. Current Cardiovascular Imaging Reports, 2013, 6, 390-398.	0.4	5
110	Toward the Optimization of D-Shaped Coils for the Use in an Open Magnetic Particle Imaging Scanner. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	5
111	Introducing a frequency-tunable magnetic particle spectrometer. Current Directions in Biomedical Engineering, 2015, 1, 249-253.	0.2	5
112	Trajectory Analysis Using Static Patches for Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	5
113	Historie der Computertomographie. , 2004, , 41-61.		5
114	A Validated Mathematical Model of Tumour-Immune Interactions for Glioblastoma. Current Medical Imaging, 2013, 9, 145-153.	0.4	5
115	Special Issue on Computer-Assisted Craniofacial Reconstruction and Modeling. Journal of Computing and Information Technology, 2006, 14, 1.	0.2	5
116	Optimal Initialization for 3D Correspondence Optimization: An Evaluation Study. Lecture Notes in Computer Science, 2011, 22, 308-319.	1.0	5
117	Coupling tumor growth with brain deformation: a constrained parametric non-rigid registration problem. , 2010, , .		4
118	A method for quantitative evaluation of statistical shape models using morphometry. , 2010, , .		4
119	Detection and distribution of superparamagnetic nanoparticles in lymphatic tissue in a breast cancer model for magnetic particle imaging. Biomedizinische Technik, 2012, 57, .	0.9	4
120	A dual-axis tilt acquisition geometry for digital musculoskeletal tomosynthesis. Physics in Medicine and Biology, 2013, 58, 4827-4848.	1.6	4
121	Comparison of Open Scanner Designs for Interventional Magnetic Particle Imaging. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	4
122	Scanner Construction for a Dynamic Field Free Line in Magnetic Particle Imaging. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	4
123	Identification of Crucial Parameters in a Mathematical Multiscale Model of Glioblastoma Growth. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-14.	0.7	4
124	Concept of a rabbit-sized FFL-scanner. , 2015, , .		4
125	Improvement of vessel segmentation by elastically compensated patient motion in digital subtraction angiography images. Lecture Notes in Computer Science, 1997, , 106-113.	1.0	4
126	RESOLUTION DISTRIBUTION IN SINGLE-SIDED MAGNETIC PARTICLE IMAGING. , 2010, , .		4

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127	The effects of metal artifact reduction on the retrieval of \hat{A} attenuation values. Journal of Applied Clinical Medical Physics, 2017, 18, 243-250.	0.8	4
128	SENTINEL LYMPHNODE DETECTION IN BREAST CANCER BY MAGNETIC PARTICLE IMAGING USING SUPERPARAMAGNETIC NANOPARTICLES. , 2010, , .		3
129	A SPECTROMETER TO MEASURE THE USABILITY OF NANOPARTICLES FOR MAGNETIC PARTICLE IMAGING. , 2010, , .		3
130	A model of tumour induced brain deformation as bio-physical prior for non-rigid image registration. , 2011, , .		3
131	Multi-object active shape model construction for abdomen segmentation: Preliminary results. , 2012, 2012, 3990-3.		3
132	Enhancing the efficiency of a field free line scanning device for magnetic particle imaging. , 2012, , .		3
133	An Application Scenario for Single-Sided Magnetic Particle Imaging. Biomedizinische Technik, 2012, 57, .	0.9	3
134	Magnetic Particle Imaging " from particle science to imaging technology. Biomedizinische Technik, 2013, 58, 489-91.	0.9	3
135	Experimental evaluation of different weighting schemes in magnetic particle imaging reconstruction. Current Directions in Biomedical Engineering, 2015, 1, 206-209.	0.2	3
136	Performance of Shielded Electromagnet-Evaluation Under Low-Frequency Excitation. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	3
137	MPI with a mechanically rotated FFL. , 2015, , .		3
138	Performance and safety evaluation of a human sized FFL imager concept. , 2015, , .		3
139	Modelling Tumour Growth Patterns with Non-Rigid Image Registration. , 2007, , 139-144.		3
140	Modellierung tumorinduzierter Gewebedeformation als Optimierungsproblem mit weicher Nebenbedingung. Informatik Aktuell, 2011, , 294-298.	0.4	3
141	Determination of System Functions for Magnetic Particle Imaging. Springer Proceedings in Physics, 2012, , 59-64.	0.1	3
142	Histogram-based image registration for digital subtraction angiography. Lecture Notes in Computer Science, 1997, , 380-387.	1.0	3
143	Intersection Line Length Normalization in CT Projection Data. Informatik Aktuell, 2008, , 77-81.	0.4	3
144	Registration Algorithm for Statistical Bone Shape Reconstruction from Radiographs - An Accuracy Study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6376-9.	0.5	2

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145	The impact of dual energy CT on pseudo enhancement of kidney lesions. , 2010, , .		2
146	Simulation of ultra low-dose scans in quantum counting clinical CT. , 2011, , .		2
147	Signal separation in magnetic particle imaging. , 2012, , .		2
148	Improved field free line magnetic particle imaging using saddle coils. Biomedizinische Technik, 2013, 58, 577-82.	0.9	2
149	Precision of an MPI Scanner Construction: Registration of Measured and Simulated Magnetic Fields. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	2
150	A device for measuring the trajectory dependent magnetic particle performance for MPI. , 2015, , .		2
151	Implementation of a High-Precision 2-D Receiving Coil Set for Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2
152	Induced electrical fields on a human body by various magnetic field topologies in the light of peripheral nerve stimulation thresholds. , 2015, , .		2
153	Simultaneous Reconstruction and Resolution Enhancement for Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2
154	PET image reconstruction using the Origin Ensemble algorithm and geometric constraints. Current Directions in Biomedical Engineering, 2017, 3, 549-553.	0.2	2
155	Relaxed Statistical Shape Models for 3D Image Segmentation “ Application to Mandible Bone in Cone-beam CT Data. Current Medical Imaging, 2013, 9, 129-137.	0.4	2
156	The effects of metal artifact reduction on the retrieval of Attenuation values. Journal of Applied Clinical Medical Physics, 2017, 18, 243-250.	0.8	2
157	Clatter Reduction for Electronic Artificial Larynx. International Journal of Speech Technology, 2005, 8, 271-281.	1.4	1
158	Weighted iterative reconstruction for magnetic particle imaging. Physics in Medicine and Biology, 2010, 55, 2427-2427.	1.6	1
159	SUPERPARAMAGNETIC IRON OXIDE NANOPARTICLES FOR MAGNETIC PARTICLE IMAGING. , 2010, , .		1
160	Approximating tumor induced brain deformation using directly manipulated free form deformation. , 2010, , .		1
161	Fingerprint segmentation and quality map using a combined frequency model. , 2011, , .		1
162	Adaptive spatially dependent weighting scheme for tomosynthesis reconstruction. Proceedings of SPIE, 2012, , .	0.8	1

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163	A Novel Acquisition Scheme for Higher Axial Resolution and Improved Image Quality in Digital Tomosynthesis. Biomedizinische Technik, 2012, 57, .	0.9	1
164	Commercialization of a magnetic particle spectrometer. , 2012, , .		1
165	A Mathematical Model to Simulate Glioma Growth and Radiotherapy at the Microscopic Level. Biomedizinische Technik, 2012, 57, .	0.9	1
166	Prior to Reconstruction â€œ The System Function. , 2012, , 97-125.		1
167	How to Build an MPI Scanner. , 2012, , 71-95.		1
168	Receive coil optimization for an open magnetic particle imaging scanner. , 2013, , .		1
169	Contribution of brownian rotation and particle assembly polarisation to the particle response in magnetic particle spectrometry. Current Directions in Biomedical Engineering, 2015, 1, 298-301.	0.2	1
170	Artifacts in field free line magnetic particle imaging. , 2015, , .		1
171	Effects of replacing the nasal cavity with a simple pipe like structure in CFD simulations of the airflow within the upper airways of OSA patients with patient individual flow rates. Current Directions in Biomedical Engineering, 2017, 3, 795-798.	0.2	1
172	A Summing Configuration based Low Noise Amplifier for MPI and MPS. Current Directions in Biomedical Engineering, 2018, 4, 83-86.	0.2	1
173	Greedy Projection Access Order for SART Simultaneous Algebraic Reconstruction Technique. Informatik Aktuell, 2013, , 93-98.	0.4	1
174	Influence of Excitation Signal Coupling on Reconstructed Images in Magnetic Particle Imaging. Informatik Aktuell, 2018, , 92-97.	0.4	1
175	Optimization of Circular Current Distributions for Magnetic Field Generation in MPI: A Comparison of the Selection Field Coil and the Drive Field Coil Geometry. Springer Proceedings in Physics, 2012, , 313-318.	0.1	1
176	Bimodal Interventional Instrument Markers for Magnetic Particle Imaging and Magnetic Resonance Imagingâ€”A Proof-of-Concept Study. Nanomaterials, 2022, 12, 1758.	1.9	1
177	Development of a Radiation Therapy Open-Source Platform. , 2005, 2005, 1887-92.		0
178	Material Scanner Using mmW-Radiation. , 2006, , .		0
179	Image reconstruction in positron emission tomography (PET): the 90th anniversary of Radon's solution / Bildrekonstruktion in der Positronen-Emissions-Tomographie (PET): zum 90. Jahrestag von Radons LÃ¶sung. Biomedizinische Technik, 2007, 52, 361-364.	0.9	0
180	Two-step metal artifact reduction using 2D-NFFT and spherically symmetric basis functions. , 2010, , .		0

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181	Medical Infrared Imaging. , 2011, , 369-378.		0
182	Receive coil array for magnetic particle imaging. , 2011, , .		0
183	Quality evaluation for metal influenced CT data. Proceedings of SPIE, 2012, , .	0.8	0
184	Modelling the Progression of Brain Metastases. Biomedizinische Technik, 2012, 57, .	0.9	0
185	Extended Field of View in Magnetic Particle Imaging. Biomedizinische Technik, 2012, 57, .	0.9	0
186	A Method for Validation and Evaluation of Digital Tomosynthesis Reconstruction. Biomedizinische Technik, 2012, 57, .	0.9	0
187	Determining Noise Distribution in Computed Tomography â€“ A Simple Phantom Based Approach. Biomedizinische Technik, 2012, 57, .	0.9	0
188	Towards Segmentation of the Upper Abdomen using a Multi-Object Active Shape Model. Biomedizinische Technik, 2012, 57, .	0.9	0
189	Calculation of Reconstruction Kernels in Computed Tomography. Biomedizinische Technik, 2012, 57, .	0.9	0
190	From Data to Images: Reconstruction. , 2012, , 127-148.		0
191	Fast Explicit Variational Diffusion Registration. Biomedizinische Technik, 2012, 57, .	0.9	0
192	Triangulating Quadrilaterals on the Sphere: Application to Shape Analysis. Biomedizinische Technik, 2012, 57, .	0.9	0
193	How Magnetic Particle Imaging Works. , 2012, , 11-70.		0
194	Putting MPI to Use: Applications. , 2012, , 171-176.		0
195	Simulation Study of a Single-Sided Magnetic Particle Imaging Device. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	0
196	High Homogeneous Saddle Drive Field Coil for Magnetic Particle Spectroscopy. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	0
197	11. Magnetic Particle Imaging. , 2014, , 425-440.		0
198	11 Bildgebung. , 2014, , 271-328.		0

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199	16. Medizinische Infrarot-Bildgebung. , 2014, , 519-532.		0
200	Sequences for real-time magnetic particle imaging. Current Directions in Biomedical Engineering, 2015, 1, 353-355.	0.2	0
201	Sensitivity study for an MPI FFL scanner. , 2015, , .		0
202	Toroidal variometer for a magnetic particle imaging device. , 2015, , .		0
203	High resolution magnetic particle imaging with low density trajectory. , 2015, , .		0
204	Message From the IWMPi 2014 Conference Chairs. IEEE Transactions on Magnetics, 2015, 51, 1-1.	1.2	0
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