

MRI-Based Attenuation Correction for PET/MRI Using

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Neutron diffraction. Reports on Progress in Physics, 1953, 16, 1-61.	8.1	25
2	The Chemistry of Trialkyloxonium Fluoroborates. Russian Chemical Reviews, 1971, 40, 747-759.	2.5	34
4	Spin coating in the presence of a transverse magnetic field and non-uniform rotation: a numerical study. Journal Physics D: Applied Physics, 1999, 32, 2483-2491.	1.3	9
5	Recent Progress of SiC-Fibers and SiC/SiC-Composites for Fusion Applications. Physica Scripta, 2001, T91, 124.	1.2	18
6	A novel implementation of an ISO standard method for primary vibration calibration by laser interferometry. Metrologia, 2003, 40, 1-8.	0.6	29
7	Final Report on the International Comparison of Luminous Responsivity CCPR-K3.b. Metrologia, 2004, 41, 02001-02001.	0.6	2
8	Nuclear modification factors of strange and multi-strange hadrons. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1195-S1198.	1.4	4
9	A New Method for Measurement of Helium Mass Flow Rate in the Cryogenic System of TORE SUPRA. Plasma Science and Technology, 2005, 7, 2825-2827.	0.7	0
10	The effect of phase difference between powered electrodes on RF plasmas. Plasma Sources Science and Technology, 2005, 14, 407-411.	1.3	9
11	Spectroscopy of Ne, Na and Mg isotopes approaching the Island of Inversion. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1903-S1906.	1.4	7
12	High-spin states of an odd-odd ^{184}Au nucleus. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1545-S1549.	1.4	3
13	Hot Quarks 2004. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, .	1.4	22
14	Numerical Analysis of the Arc Plasma in a Simplified Low-voltage Circuit Breaker Chamber with Ferromagnetic Materials. Plasma Science and Technology, 2005, 7, 2977-2981.	0.7	6
15	Microstructure and superconductivity of highly ordered $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ nanowire arrays. Nanotechnology, 2006, 17, 4252-4256.	1.3	27
16	Instability zones of periodic 1-dimensional Schrödinger and Dirac operators. Russian Mathematical Surveys, 2006, 61, 663-766.	0.2	75
17	Self-diffusion in sodium under pressure revisited. Journal of Physics Condensed Matter, 2007, 19, 176231.	0.7	6
18	Study of Multi-Function Micro-Plasma Spraying Technology. Plasma Science and Technology, 2007, 9, 52-56.	0.7	8
19	Bose-Einstein condensation in a linear sigma model at large N approximation. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 2727-2735.	1.4	10

#	ARTICLE	IF	CITATIONS
20	Dominant wing spectroscopy of energy pooling collisions near the boundary layer involving thermal caesium vapour. Chinese Physics B, 2007, 16, 2930-2933.	1.3	0
21	Effect of Ar Ion Beam Implantation on Morphological and Physiological Characteristics of Licorice (<i>Glycyrrhiza uralensis</i> Fisch) Under Short-Term Artificial Drought Conditions. Plasma Science and Technology, 2007, 9, 235-240.	0.7	2
22	Influence of Velocity Shell Correlations on Anomalous Scaling Exponents of Passive Scalars in Shell Models. Communications in Theoretical Physics, 2008, 50, 211-214.	1.1	1
23	HOST GALAXIES OF LUMINOUS QUASARS: STRUCTURAL PROPERTIES AND THE FUNDAMENTAL PLANE. Astronomical Journal, 2008, 136, 1587-1606.	1.9	25
24	Measurement of the open charm cross-section in $\sqrt{s_{NN}} = 200$ GeV Cu+Cu collisions at the STAR experiment at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104112.	1.4	1
25	The absolute frequency of the ^{87}Sr optical clock transition. Metrologia, 2008, 45, 539-548.	0.6	139
26	The dose-response relation for rat spinal cord paralysis analyzed in terms of the effective size of the functional subunit. Physics in Medicine and Biology, 2008, 53, 6533-6547.	1.6	5
27	Elastic nonlinear amplitude versus angle inversion and data-driven depth imaging in stratified media derived from inverse scattering approximations. Inverse Problems, 2008, 24, 045006.	1.0	5
28	Generation and suppression of runaway electrons in disruption mitigation experiments in TEXTOR. Plasma Physics and Controlled Fusion, 2008, 50, 105007.	0.9	77
29	Self-affine Multiplicity Fluctuation of Slow Particles in $^{16}\text{O} + \text{AgBr}$ Collisions at 3.7AGeV. Chinese Physics Letters, 2009, 26, 012401.	1.3	2
30	Thickness-induced insufficient oxygen reduction in $\text{La}_{2-x}\text{Ce}_x\text{CuO}_{4 \pm \delta}$ thin films. Superconductor Science and Technology, 2009, 22, 085004.	1.8	6
31	Measurement and temporal behaviour analysis of the plasma-glass boundary layer in a T-tube. Plasma Sources Science and Technology, 2009, 18, 015018.	1.3	1
32	Electronic, thermodynamic and elastic properties of pyrite RuO_2 . Chinese Physics B, 2009, 18, 4981-4987.	0.7	4
33	Thermally induced distortions in neodymium glass rod amplifiers. Quantum Electronics, 2009, 39, 895-900.	0.3	9
34	New explicit and exact solutions of the Benney-Kawahara-Lin equation. Chinese Physics B, 2009, 18, 4094-4099.	0.7	8
35	Electric field and ionization-gradient effects on inertial-confinement-fusion implosions. Plasma Physics and Controlled Fusion, 2009, 51, 124048.	0.9	25
36	MR-PET opens new horizons in neuroimaging. Future Neurology, 2010, 5, 807-815.	0.9	9
37	Evaluation of an easy, standardized and clinically practical method (SurePrep) for the preparation of electrode-skin contact in neurophysiological recordings. Physiological Measurement, 2010, 31, 889-901.	1.2	8

#	ARTICLE	IF	CITATIONS
38	The linear sampling method and energy conservation. <i>Inverse Problems</i> , 2010, 26, 055004.	1.0	27
39	Effect of a porous tantalum rod on early and intermediate stages of necrosis of the femoral head. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 065003.	1.7	44
40	On Estimation of Fully Entangled Fraction. <i>Communications in Theoretical Physics</i> , 2010, 53, 265-268.	1.1	8
41	Towards lung EIT image segmentation: automatic classification of lung tissue state from analysis of EIT monitored recruitment manoeuvres. <i>Physiological Measurement</i> , 2010, 31, S31-S43.	1.2	20
42	Stable determination of the electromagnetic coefficients by boundary measurements. <i>Inverse Problems</i> , 2010, 26, 105014.	1.0	20
43	Submicron InP/InGaAs Composite-Channel Metal-Oxide Semiconductor Field-Effect Transistor with Selectively Regrown n ⁺ -Source. <i>Applied Physics Express</i> , 2010, 3, 094201.	1.1	17
44	The physical process analysis of the capacitance-voltage characteristics of AlGaIn/AlN/GaN high electron mobility transistors. <i>Chinese Physics B</i> , 2010, 19, 097302.	0.7	12
45	Numerical modeling of fast electron transport in short pulse laser-solid interactions with long scale-length pre-formed plasma. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 125003.	0.9	3
46	Irradiation Effects of Femtosecond Pulses on Refractive Index of Ag-Embedded Nanocomposite Glasses. <i>Chinese Physics Letters</i> , 2010, 27, 027802.	1.3	0
47	Chlorine gas sensors using hybrid organic semiconductors of PANI/ZnPcCl ₁₆ . <i>Journal of Semiconductors</i> , 2010, 31, 084010.	2.0	2
48	Nanomechanical properties of silicon surfaces nanostructured by excimer laser. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 025003.	2.8	12
49	Bound-state parameters from dispersive sum rules for vacuum-to-vacuum correlators. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 035003.	1.4	28
50	Experimental evaluation of simultaneous emission and transmission imaging using TOF information. , 2011, , .		5
51	Design of a realistic PET-CT-MRI phantom. , 2011, , .		8
52	The effect of MR surface coils on PET quantification in whole-body PET/MR: Results from a pseudo-PET/MR phantom study. <i>Medical Physics</i> , 2011, 38, 2795-2805.	1.6	76
53	Effects of MR surface coils on PET quantification. <i>Medical Physics</i> , 2011, 38, 2948-2956.	1.6	63
54	MRI-Based Attenuation Correction for Whole-Body PET/MRI: Quantitative Evaluation of Segmentation- and Atlas-Based Methods. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1392-1399.	2.8	255
55	Fast generation of 4D PET-MR data from real dynamic MR acquisitions. <i>Physics in Medicine and Biology</i> , 2011, 56, 6597-6613.	1.6	85

#	ARTICLE	IF	CITATIONS
56	Investigation of 4D PET attenuation correction using Ultra-short Echo Time MR. , 2011, , .		6
57	The effect of errors in segmented attenuation maps on PET quantification. Medical Physics, 2011, 38, 6010-6019.	1.6	101
58	CT substitute derived from MRI sequences with ultrashort echo time. Medical Physics, 2011, 38, 2708-2714.	1.6	290
59	The effect of patient positioning aids on PET quantification in PET/MR imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 920-929.	3.3	35
60	The future of hybrid imagingâ€”part 3: PET/MR, small-animal imaging and beyond. Insights Into Imaging, 2011, 2, 235-246.	1.6	53
61	Attenuation correction in MR-BrainPET with segmented T1-weighted MR images of the patient's head — A comparative study with CT. , 2011, , .		13
62	A Successive Scans Method of Adjusting Scan-Time for Injection Electroluminescent Display Panels. Chinese Physics Letters, 2011, 28, 044205.	1.3	0
63	Lead-Free Low-Melting and Semiconductive Vanadate Glass Applicable to Low-Temperature Sealing. Japanese Journal of Applied Physics, 2011, 50, 088002.	0.8	8
64	An MHD stagnation slip flow on a moving plate. Fluid Dynamics Research, 2011, 43, 015502.	0.6	1
65	Lower hybrid current drive efficiency in tokamaks and wave scattering by density fluctuations at the plasma edge. Nuclear Fusion, 2011, 51, 113023.	1.6	24
66	Ca _{0.5} Sr _{0.5} TiO ₃ -Modified KNN-Based Lead-Free Piezoceramics with a Wide Temperature Usage Span. Chinese Physics Letters, 2011, 28, 067701.	1.3	2
67	High-speed polarization mode dispersion compensation in a 43-Gb/s RZ-DQPSK transmission system over 1200 km of standard single-mode fibre. Chinese Physics B, 2011, 20, 080702.	0.7	4
68	Enhancement of ZnO ultraviolet emission by surface plasmon coupling using a rough NiSi ₂ layer synthesized by ion implantation. Journal of Semiconductors, 2011, 32, 102002.	2.0	0
69	THE DISTRIBUTION OF THE ELEMENTS IN THE GALACTIC DISK. III. A RECONSIDERATION OF CEPHEIDS FROM <i>l</i> = 30° TO 250°. Astronomical Journal, 2011, 142, 136.	1.9	172
70	An outlook on future design of hybrid PET/MRI systems. Medical Physics, 2011, 38, 5667-5689.	1.6	160
71	Attenuation Correction Methods Suitable for Brain Imaging with a PET/MRI Scanner: A Comparison of Tissue Atlas and Template Attenuation Map Approaches. Journal of Nuclear Medicine, 2011, 52, 1142-1149.	2.8	74
72	A comparison of MR-based attenuation correction in PET versus SPECT. Physics in Medicine and Biology, 2011, 56, 4613-4629.	1.6	12
73	The Agfa Mayneord lecture: MRI of short and ultrashort <i>T</i> ₂ and <i>T</i> ₂* components of tissues, fluids and materials using clinical systems. British Journal of Radiology, 2011, 84, 1067-1082.	1.0	26

#	ARTICLE	IF	CITATIONS
74	Comparison of Segmentation-Based Attenuation Correction Methods for PET/MRI: Evaluation of Bone and Liver Standardized Uptake Value with Oncologic PET/CT Data. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1878-1882.	2.8	178
75	MRI-Based Attenuation Correction for Hybrid PET/MRI Systems: A 4-Class Tissue Segmentation Technique Using a Combined Ultrashort-Echo-Time/Dixon MRI Sequence. <i>Journal of Nuclear Medicine</i> , 2012, 53, 796-804.	2.8	406
76	Mathematical study of non-ideal electrostatic correlations in equilibrium electrolytes. <i>Nonlinearity</i> , 2012, 25, 1635-1652.	0.6	19
77	The contrast between defect solitons in parity-odd time symmetric superlattice and simple-lattice complex potentials. <i>Chinese Physics B</i> , 2012, 21, 024212.	0.7	5
78	A highly aromatic and sulfonated ionomer for high elastic modulus ionic polymer membrane micro-actuators. <i>Smart Materials and Structures</i> , 2012, 21, 055015.	1.8	9
79	Recent advances in the application of dynamical supersymmetry to describe atomic nuclei. <i>Journal of Physics: Conference Series</i> , 2012, 366, 012023.	0.3	0
80	An arbitrated quantum signature scheme based on entanglement swapping with signer anonymity. <i>Chinese Physics B</i> , 2012, 21, 120305.	0.7	6
81	Objective evaluation of the correction by non-rigid registration of abdominal organ motion in low-dose 4D dynamic contrast-enhanced CT. <i>Physics in Medicine and Biology</i> , 2012, 57, 1701-1715.	1.6	16
82	Self-organizing input space for control of structures. <i>Smart Materials and Structures</i> , 2012, 21, 115015.	1.8	21
83	A DATABASE OF >20 keV ELECTRON GREEN'S FUNCTIONS OF INTERPLANETARY TRANSPORT AT 1 AU. <i>Astrophysical Journal, Supplement Series</i> , 2012, 202, 18.	3.0	15
84	Measuring agreement between rating interpretations and binary clinical interpretations of images: a simulation study of methods for quantifying the clinical relevance of an observer performance paradigm. <i>Physics in Medicine and Biology</i> , 2012, 57, 2873-2904.	1.6	3
85	Multiterawatt femtosecond hybrid system based on a photodissociation XeF(C α) amplifier in the visible range. <i>Quantum Electronics</i> , 2012, 42, 377-378.	0.3	22
86	MR/PET quantification tools: Registration, segmentation, classification, and MR-based attenuation correction. <i>Medical Physics</i> , 2012, 39, 6443-6454.	1.6	44
87	A blind deconvolution approach for pseudo CT prediction from MR image pairs. , 2012, , .		0
88	Variable Lung Density Consideration in Attenuation Correction of Whole-Body PET/MRI. <i>Journal of Nuclear Medicine</i> , 2012, 53, 977-984.	2.8	47
89	First Clinical Experience with Integrated Whole-Body PET/MR: Comparison to PET/CT in Patients with Oncologic Diagnoses. <i>Journal of Nuclear Medicine</i> , 2012, 53, 845-855.	2.8	466
90	The Conundrum of PET/MR. <i>World Journal of Nuclear Medicine</i> , 2012, 11, 1.	0.3	4
91	Simultaneous MR-Compatible Emission and Transmission Imaging for PET Using Time-of-Flight Information. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1734-1742.	5.4	52

#	ARTICLE	IF	CITATIONS
92	Simultaneous PET/MR imaging: MR-based attenuation correction of local radiofrequency surface coils. <i>Medical Physics</i> , 2012, 39, 4306-4315.	1.6	104
94	[18F]Fluorodeoxyglucose-PET/Computed Tomography, PET, and Magnetic Resonance Imaging. <i>PET Clinics</i> , 2012, 7, 345-367.	1.5	0
95	PET/MRI: Challenges, solutions and perspectives. <i>Zeitschrift Fur Medizinische Physik</i> , 2012, 22, 281-298.	0.6	48
96	Attenuation correction for PET/MR: Problems, novel approaches and practical solutions. <i>Zeitschrift Fur Medizinische Physik</i> , 2012, 22, 299-310.	0.6	58
97	Voxel-wise uncertainty in CT substitute derived from MRI. <i>Medical Physics</i> , 2012, 39, 3283-3290.	1.6	68
98	Time-of-flight PET data determine the attenuation sinogram up to a constant. <i>Physics in Medicine and Biology</i> , 2012, 57, 885-899.	1.6	222
99	Investigation of MR-Based Attenuation Correction and Motion Compensation for Hybrid PET/MR. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 1967-1976.	1.2	32
100	Magnetic Resonance-Based Attenuation Correction for Micro-Single-Photon Emission Computed Tomography. <i>Molecular Imaging</i> , 2012, 11, 7290.2011.00036.	0.7	8
101	PET/MR imaging of bone lesions – implications for PET quantification from imperfect attenuation correction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012, 39, 1154-1160.	3.3	237
102	Technical performance evaluation of a human brain PET/MRI system. <i>European Radiology</i> , 2012, 22, 1776-1788.	2.3	140
103	Ultrashort echo time imaging using pointwise encoding time reduction with radial acquisition (PETRA). <i>Magnetic Resonance in Medicine</i> , 2012, 67, 510-518.	1.9	271
104	PET-MR imaging using a tri-modality PET/CT-MR system with a dedicated shuttle in clinical routine. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013, 26, 25-35.	1.1	102
105	Cardiac PET/MRI. <i>Current Cardiovascular Imaging Reports</i> , 2013, 6, 169-178.	0.4	2
106	A brief review of Japanese guidelines for the clinical use of 18F-FDG-PET/MRI 2012 (Ver 1.0). <i>Annals of Nuclear Medicine</i> , 2013, 27, 309-313.	1.2	4
107	MRI-guided attenuation correction in whole-body PET/MR: assessment of the effect of bone attenuation. <i>Annals of Nuclear Medicine</i> , 2013, 27, 152-162.	1.2	59
108	Atlas of PET/MR Imaging in Oncology. , 2013, , .		2
109	Discrimination and anatomical mapping of PET-positive lesions: comparison of CT attenuation-corrected PET images with coregistered MR and CT images in the abdomen. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 44-51.	3.3	31
110	Comparison of Standardized Uptake Values in Normal Structures Between PET/CT and PET/MRI in an Oncology Patient Population. <i>Molecular Imaging and Biology</i> , 2013, 15, 776-785.	1.3	53

#	ARTICLE	IF	CITATIONS
111	Technical and methodological aspects of PET/MR. <i>Clinical and Translational Imaging</i> , 2013, 1, 11-16.	1.1	6
112	Investigating the use of nonattenuation corrected PET images for the attenuation correction of PET data. <i>Medical Physics</i> , 2013, 40, 082508.	1.6	19
113	MRI-based simulation of treatment plans for ion radiotherapy in the brain region. <i>Radiotherapy and Oncology</i> , 2013, 109, 414-418.	0.3	54
114	The electric field in the cortex during transcranial current stimulation. <i>NeuroImage</i> , 2013, 70, 48-58.	2.1	277
115	Challenges and current methods for attenuation correction in PET/MR. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013, 26, 81-98.	1.1	138
116	Description and assessment of a registration-based approach to include bones for attenuation correction of whole-body PET/MRI. <i>Medical Physics</i> , 2013, 40, 082509.	1.6	33
117	Evaluation of an Atlas-Based PET Head Attenuation Correction Using PET/CT & MR Patient Data. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3383-3390.	1.2	78
118	T1/T2*-weighted MRI provides clinically relevant pseudo-CT density data for the pelvic bones in MRI-only based radiotherapy treatment planning. <i>Acta Oncologica</i> , 2013, 52, 612-618.	0.8	102
119	Bias Atlases for Segmentation-Based PET Attenuation Correction Using PET-CT and MR. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3373-3382.	1.2	42
120	Generation of attenuation map for MR-based attenuation correction of PET data in the head area employing 3D short echo time MR imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 702, 133-136.	0.7	14
121	Advances in multimodal neuroimaging: Hybrid MR ⁺ PET and MR ⁺ PET ⁺ EEG at 3T and 9.4T. <i>Journal of Magnetic Resonance</i> , 2013, 229, 101-115.	1.2	67
122	Errors in MR-based attenuation correction for brain imaging with PET/MR scanners. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 702, 104-107.	0.7	3
123	MR-driven metal artifact reduction in PET/CT. <i>Physics in Medicine and Biology</i> , 2013, 58, 2267-2280.	1.6	18
124	Skull segmentation of UTE MR images by probabilistic neural network for attenuation correction in PET/MR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 702, 114-116.	0.7	16
125	Novel Quantitative Techniques in Hybrid (PET-MR) Imaging of Brain Tumors. <i>PET Clinics</i> , 2013, 8, 219-232.	1.5	4
126	Bone contrast optimization in magnetic resonance imaging using experimental design of ultra-short echo-time parameters. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 125, 33-39.	1.8	2
127	MR-Based PET Attenuation Correction for PET/MR Imaging. <i>Seminars in Nuclear Medicine</i> , 2013, 43, 45-59.	2.5	138
128	Clinical Positron Emission Tomography/Magnetic Resonance Imaging Applications. <i>Seminars in Nuclear Medicine</i> , 2013, 43, 3-10.	2.5	67

#	ARTICLE	IF	CITATIONS
129	PET/MRI. , 2013, , 373-390.		1
130	MRI-based treatment plan simulation and adaptation for ion radiotherapy using a classification-based approach. Radiation Oncology, 2013, 8, 51.	1.2	56
131	Multiscale segmentation of the skull in MR images for MRI-based attenuation correction of combined MR/PET. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 1037-1045.	2.2	25
132	Sequential whole-body PET/MR scanner: concept, clinical use, and optimisation after two years in the clinic. The manufacturer's perspective. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 5-23.	1.1	82
133	Evaluation of an attenuation correction method for PET/MR imaging of the head based on substitute CT images. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 127-136.	1.1	41
134	MRI for attenuation correction in PET: methods and challenges. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 99-113.	1.1	197
135	Influence and Compensation of Truncation Artifacts in MR-Based Attenuation Correction in PET/MR. IEEE Transactions on Medical Imaging, 2013, 32, 2056-2063.	5.4	37
136	Quantitative accuracy of attenuation correction in the Philips Ingenuity TF whole-body PET/MR system: a direct comparison with transmission-based attenuation correction. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 115-126.	1.1	61
137	Impact of out-of-field activity in MLAA estimation of lung attenuation for PET/MR. , 2013, , .		0
138	Hybrid PET/MR Imaging of the Heart: Feasibility and Initial Results. Radiology, 2013, 268, 366-373.	3.6	119
139	Improved quality of computed tomography substitute derived from magnetic resonance (MR) data by incorporation of spatial information – potential application for MR-only radiotherapy and attenuation correction in positron emission tomography. Acta Oncologica, 2013, 52, 1369-1373.	0.8	59
140	Positron emission tomography (PET) attenuation correction artefacts in PET/CT and PET/MRI. British Journal of Radiology, 2013, 86, 20120570.	1.0	34
141	MR-Based Attenuation Correction Methods for Improved PET Quantification in Lesions Within Bone and Susceptibility Artifact Regions. Journal of Nuclear Medicine, 2013, 54, 1768-1774.	2.8	50
142	Investigation of a method for generating synthetic CT models from MRI scans of the head and neck for radiation therapy. Physics in Medicine and Biology, 2013, 58, 8419-8435.	1.6	192
143	Distance Ranging Based on Quantum Entanglement. Chinese Physics Letters, 2013, 30, 100301.	1.3	8
144	THE DISTANCE TO THE MASSIVE GALACTIC CLUSTER WESTERLUND 2 FROM A SPECTROSCOPIC AND PHOTOMETRIC STUDY. Astronomical Journal, 2013, 145, 125.	1.9	39
145	Dynamic avalanche behavior of power MOSFETs and IGBTs under unclamped inductive switching conditions. Journal of Semiconductors, 2013, 34, 034002.	2.0	4
146	MAGIICAT I. THE Mg II ABSORBER-GALAXY CATALOG. Astrophysical Journal, 2013, 776, 114.	1.6	83

#	ARTICLE	IF	CITATIONS
147	Melting phenomenon in magneto hydro-dynamics steady flow and heat transfer over a moving surface in the presence of thermal radiation. Chinese Physics B, 2013, 22, 030202.	0.7	20
148	The effect of an optical pump on the absorption coefficient of magnesium-doped near-stoichiometric lithium niobate in terahertz range. Chinese Physics B, 2013, 22, 107802.	0.7	1
149	Computation of parent austenite grain orientation from product grain orientations upon displacive phase transformations. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 085009.	0.8	4
150	Transport characteristics of tracer and intrinsic impurities depending on the density of LHD plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 095014.	0.9	14
151	FORMALDEHYDE DENSITOMETRY OF STARBURST GALAXIES: DENSITY-INDEPENDENT GLOBAL STAR FORMATION. Astrophysical Journal, 2013, 766, 108.	1.6	32
152	Spectral properties of a $\hat{l}z$ -configuration atom driven by a pair of bichromatic fields. Chinese Physics B, 2013, 22, 014205.	0.7	1
153	ON THE DENSITY PROFILE OF THE GLOBULAR CLUSTER M92. Astronomical Journal, 2013, 145, 103.	1.9	10
154	A high-power narrow-linewidth optical parametric oscillator based on PPMgLN. Laser Physics, 2013, 23, 055405.	0.6	14
155	Detailed Analysis of the Transient Voltage in a JT-60SA PF Coil Circuit. Plasma Science and Technology, 2013, 15, 148-151.	0.7	6
156	GLOBAL HELIOSEISMIC EVIDENCE FOR A DEEPLY PENETRATING SOLAR MERIDIONAL FLOW CONSISTING OF MULTIPLE FLOW CELLS. Astrophysical Journal Letters, 2013, 778, L38.	3.0	96
157	Automated Classification of Bone and Air Volumes for Hybrid PET-MRI Brain Imaging. , 2013, , .		8
158	Improved UTE-based attenuation correction for cranial PET-MR using dynamic magnetic field monitoring. Medical Physics, 2013, 41, 012302.	1.6	39
159	Quantitative bias in PET/MR from attenuation correction and reconstruction: A comparison with PET and PET/CT with an anatomical brain phantom and Hoffman brain phantom. , 2013, , .		2
160	MRI guided PET image filtering and partial volume correction. , 2013, , .		1
161	Preclinical Evaluation of MR Attenuation Correction Versus CT Attenuation Correction on a Sequential Whole-Body MR/PET Scanner. Investigative Radiology, 2013, 48, 313-322.	3.5	30
162	Magnetic Resonance-Based Attenuation Correction for PET/MR Hybrid Imaging Using Continuous Valued Attenuation Maps. Investigative Radiology, 2013, 48, 323-332.	3.5	111
163	A Transgenic Minipig Model of Huntington's Disease. Journal of Huntington's Disease, 2013, 2, 47-68.	0.9	94
164	Does the Novel Integrated PET/MRI Offer the Same Diagnostic Performance as PET/CT for Oncological Indications?. PLoS ONE, 2014, 9, e90844.	1.1	24

#	ARTICLE	IF	CITATIONS
165	MRI based attenuation correction for PET/MRI via MRF segmentation and sparse regression estimated CT. , 2014, , .		5
166	An SPM8-Based Approach for Attenuation Correction Combining Segmentation and Nonrigid Template Formation: Application to Simultaneous PET/MR Brain Imaging. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1825-1830.	2.8	171
167	Quantitative simultaneous positron emission tomography and magnetic resonance imaging. <i>Journal of Medical Imaging</i> , 2014, 1, 033502.	0.8	7
168	Principles of PET/MR Imaging. <i>Journal of Nuclear Medicine</i> , 2014, 55, 2S-10S.	2.8	73
170	MRI-based treatment planning with pseudo CT generated through atlas registration. <i>Medical Physics</i> , 2014, 41, 051711.	1.6	144
171	Fat-Constrained ¹⁸ F-FDG PET Reconstruction in Hybrid PET/MR Imaging. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1643-1649.	2.8	2
172	CT substitutes derived from MR images reconstructed with parallel imaging. <i>Medical Physics</i> , 2014, 41, 082302.	1.6	22
173	Scattered PET data for attenuation map reconstruction in PET/MRI. <i>Medical Physics</i> , 2014, 41, 102502.	1.6	34
174	Positron Emission Tomography-Magnetic Resonance Imaging: Technical Review. <i>Seminars in Roentgenology</i> , 2014, 49, 242-254.	0.2	35
175	PET/MRI in Lung Cancer. <i>Seminars in Roentgenology</i> , 2014, 49, 291-303.	0.2	8
176	kspace sampling optimization for ultrashort TE imaging of cortical bone: Applications in radiation therapy planning and MR-based PET attenuation correction. <i>Medical Physics</i> , 2014, 41, 102301.	1.6	9
177	Quantum confinement effects in doped two-dimensional Si layers: Novel device design for two-dimensional pn-junction structures. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 04EC08.	0.8	5
178	MASSIVE GRAVITY WRAPPED IN THE COSMIC WEB. <i>Astrophysical Journal</i> , 2014, 784, 84.	1.6	5
179	Investigation of Total Absorption of Radio Waves in High Latitude Ionosphere. <i>Plasma Science and Technology</i> , 2014, 16, 833-836.	0.7	1
180	A new medium for physics teaching: results of a worldwide study of remotely controlled laboratories (RCLs). <i>European Journal of Physics</i> , 2014, 35, 018001.	0.3	5
181	ROSSITER-MCLAUGHLIN OBSERVATIONS OF 55 Cnc e. <i>Astrophysical Journal Letters</i> , 2014, 792, L31.	3.0	33
182	Placement Scheme of Numerous Laser Beams in the Context of Fiber-Based Laser Fusion. <i>Chinese Physics Letters</i> , 2014, 31, 095201.	1.3	0
183	Evaluation of phonon confinement in ultrathin-film silicon-on-insulator by Raman spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 032401.	0.8	6

#	ARTICLE	IF	CITATIONS
184	Infinitely many generalized symmetries and Painlevé analysis of a (2 + 1)-dimensional Burgers system. <i>Physica Scripta</i> , 2014, 89, 025201.	1.2	14
185	Landau-Stark states in finite lattices and edge-induced Bloch oscillations. <i>Europhysics Letters</i> , 2014, 106, 50001.	0.7	3
186	Origin of the lattice sites occupied by implanted Co in Si. <i>Semiconductor Science and Technology</i> , 2014, 29, 125006.	1.0	4
187	Efficient Phosphorescent Organic Light Emitting Diodes Using F4TCNQ as the Indium-Tin-Oxide Modification Layer. <i>Chinese Physics Letters</i> , 2014, 31, 097801.	1.3	5
188	Segmentation-Based MR Attenuation Correction Including Bones Also Affects Quantitation in Brain Studies: An Initial Result of ¹⁸ F-FP-CIT PET/MR for Patients with Parkinsonism. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1617-1622.	2.8	24
189	Recent Advances in Hybrid Molecular Imaging Systems. <i>Seminars in Musculoskeletal Radiology</i> , 2014, 18, 103-122.	0.4	16
190	A unifying probabilistic Bayesian approach to derive electron density from MRI for radiation therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2014, 59, 6595-6606.	1.6	75
191	Attenuation Effects of MR Headphones During Brain PET/MR Studies. <i>Journal of Nuclear Medicine Technology</i> , 2014, 42, 93-100.	0.4	16
192	A voxel-based investigation for MRI-only radiotherapy of the brain using ultra short echo times. <i>Physics in Medicine and Biology</i> , 2014, 59, 7501-7519.	1.6	89
193	Classification of bones from MR images in torso PET-MR imaging using a statistical shape model. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 734, 196-200.	0.7	5
194	A novel segmentation approach for implementation of MRAC in head PET/MRI employing Short-TE MRI and 2-point Dixon method in a fuzzy C-means framework. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 734, 171-174.	0.7	9
195	Reliability of semiquantitative ¹⁸ F-FDG PET parameters derived from simultaneous brain PET/MRI: A feasibility study. <i>European Journal of Radiology</i> , 2014, 83, 1269-1274.	1.2	19
196	Magnetic Resonance/Positron Emission Tomography (MR/PET) Oncologic Applications: Bone and Soft Tissue Sarcoma. <i>Seminars in Roentgenology</i> , 2014, 49, 345-352.	0.2	15
197	Initial experience of MR/PET in a clinical cancer center. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 768-780.	1.9	11
198	Accurate PET/MR Quantification Using Time of Flight MLAA Image Reconstruction. <i>Molecular Imaging and Biology</i> , 2014, 16, 469-477.	1.3	78
199	A comparison of CT- and MR-based attenuation correction in neurological PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014, 41, 1176-1189.	3.3	70
200	Whole-body simultaneous positron emission tomography (PET) and MR: Optimization and adaptation of MRI sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 259-268.	1.9	22
201	Integrated PET/MR. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 243-258.	1.9	123

#	ARTICLE	IF	CITATIONS
202	Transmission-less attenuation correction in time-of-flight PET: analysis of a discrete iterative algorithm. <i>Physics in Medicine and Biology</i> , 2014, 59, 1073-1095.	1.6	41
203	3D Multiscale Physiological Human. , 2014, , .		7
204	Artifacts and Diagnostic Pitfalls in Positron Emission Tomography-Magnetic Resonance Imaging. <i>Seminars in Roentgenology</i> , 2014, 49, 255-270.	0.2	3
205	Anatomic Evaluation of 3-Dimensional Ultrashort-Echo-Time Bone Maps for PET/MR Attenuation Correction. <i>Journal of Nuclear Medicine</i> , 2014, 55, 780-785.	2.8	52
206	Improvement of Attenuation Correction in Time-of-Flight PET/MR Imaging with a Positron-Emitting Source. <i>Journal of Nuclear Medicine</i> , 2014, 55, 329-336.	2.8	44
207	From PET/CT to PET/MRI: Advances in Instrumentation and Clinical Applications. <i>Molecular Pharmaceutics</i> , 2014, 11, 3798-3809.	2.3	36
208	Attenuation Correction Synthesis for Hybrid PET-MR Scanners: Application to Brain Studies. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2332-2341.	5.4	311
209	PET/MR attenuation correction: where have we come from and where are we going?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014, 41, 1172-1175.	3.3	21
210	Comparison of MR-based attenuation correction and CT-based attenuation correction of whole-body PET/MR imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014, 41, 1574-1584.	3.3	41
211	Cluster-based segmentation of dual-echo ultra-short echo time images for PET/MR bone localization. <i>EJNMMI Physics</i> , 2014, 1, 7.	1.3	18
212	A proposal for PET/MRI attenuation correction with T_1 -values measured using a fixed-position radiation source and MRI segmentation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 734, 156-161.	0.7	7
213	Hybrid approach for attenuation correction in PET/MR scanners. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 734, 166-170.	0.7	23
214	Counterpoint: Opportunities and Challenges of a Magnetic Resonance Imagingâ€œOnly Radiotherapy Work Flow. <i>Seminars in Radiation Oncology</i> , 2014, 24, 175-180.	1.0	59
215	Systematic Comparison of the Performance of Integrated Whole-Body PET/MR Imaging to Conventional PET/CT for 18 F-FDG Brain Imaging in Patients Examined for Suspected Dementia. <i>Journal of Nuclear Medicine</i> , 2014, 55, 923-931.	2.8	46
216	Comparison of transmission- and emission-based attenuation correction for TOF-PET/MRI. , 2014, , .		4
217	Feasibility and limitations of bulk density assignment in MRI for head and neck IMRT treatment planning. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 100-111.	0.8	57
218	Effect of scatter correction when comparing attenuation maps: Application to brain PET/MR. , 2014, , .		10
219	Continuous MR bone density measurement using water- and fat-suppressed projection imaging (WASPI) for PET attenuation correction in PET-MR. <i>Physics in Medicine and Biology</i> , 2015, 60, N369-N381.	1.6	14

#	ARTICLE	IF	CITATIONS
220	Correction of quantification errors in pelvic and spinal lesions caused by ignoring higher photon attenuation of bone in [¹⁸ F]NaF PET/MR. <i>Medical Physics</i> , 2015, 42, 6468-6476.	1.6	10
221	Collimator design for a multipinhole brain SPECT insert for MRI. <i>Medical Physics</i> , 2015, 42, 6679-6689.	1.6	8
222	Initial clinical experience with a radiation oncology dedicated open 1.0T MR simulation. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 218-240.	0.8	23
223	Feasibility of using respiration-averaged MR images for attenuation correction of cardiac PET/MR imaging. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 311-321.	0.8	5
224	Region specific optimization of continuous linear attenuation coefficients based on UTE (RESOLUTE): application to PET/MR brain imaging. <i>Physics in Medicine and Biology</i> , 2015, 60, 8047-8065.	1.6	104
225	Integrated Whole Body MR/PET: Where Are We?. <i>Korean Journal of Radiology</i> , 2015, 16, 32.	1.5	44
226	First sub-500 μ m-resolution simultaneous SPECT/MRI imaging with the MRC-SPECT-I: An ultrahigh resolution MR-compatible SPECT system using highly pixelated semiconductor detectors. , 2015, , .		3
227	Beyond Whole-Body Imaging. <i>Clinical Nuclear Medicine</i> , 2015, 40, e88-e95.	0.7	7
228	PET/MR brain imaging: evaluation of clinical UTE-based attenuation correction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1439-1446.	3.3	47
229	Lean body mass correction of standardized uptake value in simultaneous whole-body positron emission tomography and magnetic resonance imaging. <i>Physics in Medicine and Biology</i> , 2015, 60, 4651-4664.	1.6	10
230	Automatic correction of dental artifacts in PET/MRI. <i>Journal of Medical Imaging</i> , 2015, 2, 024009.	0.8	8
231	Fast pseudo-CT synthesis from MRI T1-weighted images using a patch-based approach. , 2015, , .		0
232	Probabilistic Air Segmentation and Sparse Regression Estimated Pseudo CT for PET/MR Attenuation Correction. <i>Radiology</i> , 2015, 275, 562-569.	3.6	27
233	Current status and future role of brain PET/MRI in clinical and research settings. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 512-526.	3.3	74
234	Multimodal neuroimaging in humans at 9.4T: a technological breakthrough towards an advanced metabolic imaging scanner. <i>Brain Structure and Function</i> , 2015, 220, 1867-1884.	1.2	17
235	PET-MRI: a review of challenges and solutions in the development of integrated multimodality imaging. <i>Physics in Medicine and Biology</i> , 2015, 60, R115-R154.	1.6	213
236	MRI-guided brain PET image filtering and partial volume correction. <i>Physics in Medicine and Biology</i> , 2015, 60, 961-976.	1.6	55
237	Clinical Assessment of MR-Guided 3-Class and 4-Class Attenuation Correction in PET/MR. <i>Molecular Imaging and Biology</i> , 2015, 17, 264-276.	1.3	53

#	ARTICLE	IF	CITATIONS
238	Multi-contrast attenuation map synthesis for PET/MR scanners: assessment on FDG and Florbetapir PET tracers. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1447-1458.	3.3	35
240	The Effect of Mouth Motion on the Attenuation Correction in Neurological PET Studies. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015, , 63-69.	0.5	0
241	MR-based attenuation correction for cardiac FDG PET on a hybrid PET/MRI scanner: comparison with standard CT attenuation correction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1574-1580.	3.3	48
242	Generation of a Four-Class Attenuation Map for MRI-Based Attenuation Correction of PET Data in the Head Area Using a Novel Combination of STE/Dixon-MRI and FCM Clustering. <i>Molecular Imaging and Biology</i> , 2015, 17, 884-892.	1.3	22
243	Clinical Assessment of Emission- and Segmentation-Based MR-Guided Attenuation Correction in Whole-Body Time-of-Flight PET/MR Imaging. <i>Journal of Nuclear Medicine</i> , 2015, 56, 877-883.	2.8	30
244	MR-based attenuation correction for PET/MRI neurological studies with continuous-valued attenuation coefficients for bone through a conversion from $R2^*$ to CT-Hounsfield units. <i>NeuroImage</i> , 2015, 112, 160-168.	2.1	79
245	Developing a parametric ear model for auricular reconstruction: A new step towards patient-specific implants. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 390-395.	0.7	41
246	PET/MRI for the body imager: abdominal and pelvic oncologic applications. <i>Abdominal Imaging</i> , 2015, 40, 1387-1404.	2.0	23
247	MR-Based Attenuation Correction Using Ultrashort-Echo-Time Pulse Sequences in Dementia Patients. <i>Journal of Nuclear Medicine</i> , 2015, 56, 423-429.	2.8	58
248	Current Image Acquisition Options in PET/MR. <i>Seminars in Nuclear Medicine</i> , 2015, 45, 192-200.	2.5	57
249	Wurtzite-derived ternary In_2O_3 semiconductors. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 024902.	2.8	23
250	Alkyl- π -conjugated engineering in state control toward versatile optoelectronic soft materials. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 014805.	2.8	37
251	Creation of a three-dimensional super-resolution transversally polarized focal spot by tight focusing of radially polarized vortex beams. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 055605.	1.0	4
252	Astrometry of three near Earth asteroids with the Lijiang 2.4 m telescope. <i>Research in Astronomy and Astrophysics</i> , 2015, 15, 435-442.	0.7	3
253	Clinical Evaluation of Zero-Echo-Time MR Imaging for the Segmentation of the Skull. <i>Journal of Nuclear Medicine</i> , 2015, 56, 417-422.	2.8	111
254	Future Image Acquisition Trends for PET/MRI. <i>Seminars in Nuclear Medicine</i> , 2015, 45, 201-211.	2.5	29
255	Quantitative characterizations of ultrashort echo (UTE) images for supporting air-bone separation in the head. <i>Physics in Medicine and Biology</i> , 2015, 60, 2869-2880.	1.6	32
256	Pitfalls and Limitations in Simultaneous PET/MRI. <i>Seminars in Nuclear Medicine</i> , 2015, 45, 552-559.	2.5	16

#	ARTICLE	IF	CITATIONS
257	Evaluation of several multi-atlas methods for PSEUDO-CT generation in brain MRI-PET attenuation correction. , 2015, , .		17
258	Patch-based generation of a pseudo CT from conventional MRI sequences for MRI-only radiotherapy of the brain. Medical Physics, 2015, 42, 1596-1605.	1.6	119
259	Ultrashort echo-time MRI versus CT for skull aberration correction in MR-guided transcranial focused ultrasound: <i>in vitro</i> comparison on human calvaria. Medical Physics, 2015, 42, 2223-2233.	1.6	52
260	Generation of brain pseudo-CTs using an undersampled, single-acquisition UTE-Dixon pulse sequence and unsupervised clustering. Medical Physics, 2015, 42, 4974-4986.	1.6	56
261	Comparison of Template-Based Versus CT-Based Attenuation Correction for Hybrid MR/PET Scanners. IEEE Transactions on Nuclear Science, 2015, 62, 2115-2121.	1.2	28
262	Automatic Substitute Computed Tomography Generation and Contouring for Magnetic Resonance Imaging (MRI)-Alone External Beam Radiation Therapy From Standard MRI Sequences. International Journal of Radiation Oncology Biology Physics, 2015, 93, 1144-1153.	0.4	151
263	Joint Estimation of Activity and Attenuation in Whole-Body TOF PET/MRI Using Constrained Gaussian Mixture Models. IEEE Transactions on Medical Imaging, 2015, 34, 1808-1821.	5.4	85
264	Assessing the Dosimetric Accuracy of Magnetic Resonance-Generated Synthetic CT Images for Focal Brain VMAT Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2015, 93, 1154-1161.	0.4	52
265	Magnetic Resonance Imaging (MRI) and Positron Emission Tomography (PET)/MRI for Lung Cancer Staging. Journal of Thoracic Imaging, 2016, 31, 215-227.	0.8	25
266	Multi-atlas and label fusion approach for patient-specific MRI based skull estimation. Magnetic Resonance in Medicine, 2016, 75, 1797-1807.	1.9	21
267	A simultaneous beta and coincidence-gamma imaging system for plant leaves. Physics in Medicine and Biology, 2016, 61, 3572-3595.	1.6	2
268	Vision 20/20: Magnetic resonance imaging-guided attenuation correction in PET/MRI: Challenges, solutions, and opportunities. Medical Physics, 2016, 43, 1130-1155.	1.6	121
269	A patch-based pseudo-CT approach for MRI-only radiotherapy in the pelvis. Medical Physics, 2016, 43, 4742-4752.	1.6	63
270	Whole-body bone segmentation from MRI for PET/MRI attenuation correction using shape-based averaging. Medical Physics, 2016, 43, 5848-5861.	1.6	29
271	Multi-Atlas Based Pseudo-CT Synthesis Using Multimodal Image Registration and Local Atlas Fusion Strategies. , 2016, , .		11
272	Optimized MLLA for quantitative non-TOF PET/MR of the brain. Physics in Medicine and Biology, 2016, 61, 8854-8874.	1.6	25
273	Hybrid Imaging in Pediatric Central Nervous System Disorders. , 2016, , 195-217.		0
274	PET/CT Versus PET/MRI. , 2016, , 297-310.		1

#	ARTICLE	IF	CITATIONS
275	A novel alternative to classify tissues from T 1 and T 2 relaxation times for prostate MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 777-788.	1.1	12
276	Computed tomography synthesis from magnetic resonance images in the pelvis using multiple random forests and auto-context features. Proceedings of SPIE, 2016, , .	0.8	16
277	PET-CT and PET-MRI in Neurology. , 2016, , .		5
278	Tissue Probability-Based Attenuation Correction for Brain PET/MR by Using SPM8. IEEE Transactions on Nuclear Science, 2016, 63, 2452-2463.	1.2	9
279	MR-Consistent Simultaneous Reconstruction of Attenuation and Activity for Non-TOF PET/MR. IEEE Transactions on Nuclear Science, 2016, 63, 2443-2451.	1.2	10
280	Comparison between MRI-based attenuation correction methods for brain PET in dementia patients. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 2190-2200.	3.3	27
281	Ultrashort echo time and zero echo time MRI at 7T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 359-370.	1.1	59
282	Hybrid Positron Emission Tomography/Magnetic Resonance Imaging. Investigative Radiology, 2016, 51, 624-634.	3.5	35
283	Impact of attenuation correction on clinical [18F]FDG brain PET in combined PET/MRI. EJNMMI Research, 2016, 6, 47.	1.1	12
284	Zero TE MR bone imaging in the head. Magnetic Resonance in Medicine, 2016, 75, 107-114.	1.9	180
285	Introduction to Combining MRI With PET. Imaging in Medical Diagnosis and Therapy, 2016, , 205-232.	0.0	0
286	Atlas-guided generation of pseudo-CT images for MRI-only and hybrid PET-MRI-guided radiotherapy treatment planning. Physics in Medicine and Biology, 2016, 61, 6531-6552.	1.6	78
287	Predict CT image from MRI data using KNN-regression with learned local descriptors. , 2016, , .		11
288	Potential influence of Gadolinium contrast on image segmentation in MR-based attenuation correction with Dixon sequences in whole-body 18F-FDG PET/MR. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 301-308.	1.1	11
289	Clinical Evaluation of Zero-Echo-Time Attenuation Correction for Brain ¹⁸ F-FDG PET/MRI: Comparison with Atlas Attenuation Correction. Journal of Nuclear Medicine, 2016, 57, 1927-1932.	2.8	102
290	Prediction of CT Substitutes from MR Images Based on Local Diffeomorphic Mapping for Brain PET Attenuation Correction. Journal of Nuclear Medicine, 2016, 57, 1635-1641.	2.8	16
291	Cerebral metabolism and perfusion in MR-negative individuals with refractory focal epilepsy assessed by simultaneous acquisition of 18 F-FDG PET and arterial spin labeling. NeuroImage: Clinical, 2016, 11, 648-657.	1.4	67
292	One registration multi-atlas-based pseudo-CT generation for attenuation correction in PET/MRI. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 2021-2035.	3.3	39

#	ARTICLE	IF	CITATIONS
293	Simultaneous carotid PET/MR: feasibility and improvement of magnetic resonance-based attenuation correction. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 61-71.	0.7	12
294	Innovations in Small-Animal PET/MR Imaging Instrumentation. <i>PET Clinics</i> , 2016, 11, 105-118.	1.5	11
295	Magnetic resonance imaging-guided attenuation correction in whole-body PET/MRI using a sorted atlas approach. <i>Medical Image Analysis</i> , 2016, 31, 1-15.	7.0	38
296	Quantitative analysis of MRI-guided attenuation correction techniques in time-of-flight brain PET/MRI. <i>NeuroImage</i> , 2016, 130, 123-133.	2.1	45
297	MR Imagingâ€“Guided Attenuation Correction of PET Data in PET/MR Imaging. <i>PET Clinics</i> , 2016, 11, 129-149.	1.5	43
298	Impact of MR-Based Attenuation Correction on Neurologic PET Studies. <i>Journal of Nuclear Medicine</i> , 2016, 57, 913-917.	2.8	28
299	Dixon Sequence with Superimposed Model-Based Bone Compartment Provides Highly Accurate PET/MR Attenuation Correction of the Brain. <i>Journal of Nuclear Medicine</i> , 2016, 57, 918-924.	2.8	76
300	The Use of Anatomical Information for Molecular Image Reconstruction Algorithms: Attenuation/Scatter Correction, Motion Compensation, and Noise Reduction. <i>Nuclear Medicine and Molecular Imaging</i> , 2016, 50, 13-23.	0.6	7
301	Positron Emission Tomography/Magnetic Resonance Imaging of Gastrointestinal Cancers. <i>Seminars in Ultrasound, CT and MRI</i> , 2016, 37, 352-357.	0.7	4
302	The accuracy of ultrashort echo time MRI sequences for medical additive manufacturing. <i>Dentomaxillofacial Radiology</i> , 2016, 45, 20150424.	1.3	16
303	MRI-Based Attenuation Correction for PET/MRI Using Multiphase Level-Set Method. <i>Journal of Nuclear Medicine</i> , 2016, 57, 587-593.	2.8	28
304	An improved MR sequence for attenuation correction in PET/MR hybrid imaging. <i>Magnetic Resonance Imaging</i> , 2016, 34, 345-352.	1.0	2
305	Fast Patch-Based Pseudo-CT Synthesis from T1-Weighted MR Images for PET/MR Attenuation Correction in Brain Studies. <i>Journal of Nuclear Medicine</i> , 2016, 57, 136-143.	2.8	72
306	Whole-body PET/MRI for colorectal cancer staging: Is it the way forward?. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 21-35.	1.9	31
307	Improved cortical bone specificity in UTE MR Imaging. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 684-695.	1.9	37
308	Robust Estimation of Electron Density From Anatomic Magnetic Resonance Imaging of the Brain Using a Unifying Multi-Atlas Approach. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 849-857.	0.4	11
309	Registration of MRI to intraoperative radiographs for target localization in spinal interventions. <i>Physics in Medicine and Biology</i> , 2017, 62, 684-701.	1.6	24
310	Hybrid ^{ZTE} /Dixon MR-based attenuation correction for quantitative uptake estimation of pelvic lesions in PET/MRI. <i>Medical Physics</i> , 2017, 44, 902-913.	1.6	73

#	ARTICLE	IF	CITATIONS
311	PET/MRI in the Presence of Metal Implants: Completion of the Attenuation Map from PET Emission Data. <i>Journal of Nuclear Medicine</i> , 2017, 58, 840-845.	2.8	32
312	Attenuation Correction of PET/MR Imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2017, 25, 245-255.	0.6	75
313	A review of substitute CT generation for MRI-only radiation therapy. <i>Radiation Oncology</i> , 2017, 12, 28.	1.2	278
314	Pseudo CT estimation from MRI using patch-based random forest. <i>Proceedings of SPIE</i> , 2017, 10133, .	0.8	24
315	MR-based synthetic CT generation using a deep convolutional neural network method. <i>Medical Physics</i> , 2017, 44, 1408-1419.	1.6	573
316	Multi-atlas attenuation correction supports full quantification of static and dynamic brain PET data in PET-MR. <i>Physics in Medicine and Biology</i> , 2017, 62, 2834-2858.	1.6	37
317	Systems, Physics, and Instrumentation of PET/MRI for Cardiovascular Studies. <i>Current Cardiovascular Imaging Reports</i> , 2017, 10, 1.	0.4	2
318	Zero echo time MRI-only treatment planning for radiation therapy of brain tumors after resection. <i>Physica Medica</i> , 2017, 42, 332-338.	0.4	12
319	Effect of Brain Tissue and Continuous Template-Based Skull in MR-Based Attenuation Correction for Brain PET/MR. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 246-261.	2.7	4
320	Effect of gradient field nonlinearity distortions in MRI-based attenuation maps for PET reconstruction. <i>Physica Medica</i> , 2017, 35, 1-6.	0.4	0
321	A multi-centre evaluation of eleven clinically feasible brain PET/MRI attenuation correction techniques using a large cohort of patients. <i>NeuroImage</i> , 2017, 147, 346-359.	2.1	200
322	Subject-specific bone attenuation correction for brain PET/MR: can ZTE-MRI substitute CT scan accurately?. <i>Physics in Medicine and Biology</i> , 2017, 62, 7814-7832.	1.6	30
323	MR-guided joint reconstruction of activity and attenuation in brain PET-MR. <i>NeuroImage</i> , 2017, 162, 276-288.	2.1	24
324	Dosimetric feasibility of magnetic resonance (MR)-based dose calculation of prostate radiotherapy using multilevel threshold algorithm. <i>Journal of Radiotherapy in Practice</i> , 2017, 16, 415-422.	0.2	0
325	Semiquantitative Assessment of ¹⁸ F-FDG Uptake in the Normal Skeleton: Comparison Between PET/CT and Time-of-Flight Simultaneous PET/MRI. <i>American Journal of Roentgenology</i> , 2017, 209, 1136-1142.	1.0	4
326	A realistic phantom for validating MRI-based synthetic CT images of the human skull. <i>Medical Physics</i> , 2017, 44, 4687-4694.	1.6	6
327	MLAA-based attenuation correction of flexible hardware components in hybrid PET/MR imaging. <i>EJNMMI Physics</i> , 2017, 4, 12.	1.3	22
328	PET/MR: Basics and New Developments. , 2017, , 199-228.		0

#	ARTICLE	IF	CITATIONS
329	4-Dimensional MRI and Attenuation Map Generation in PET/MRI with 4-Dimensional PET-Derived Deformation Matrices: Study of Feasibility for Lung Cancer Applications. <i>Journal of Nuclear Medicine</i> , 2017, 58, 833-839.	2.8	8
330	Single STE-MR Acquisition in MR-Based Attenuation Correction of Brain PET Imaging Employing a Fully Automated and Reproducible Level-Set Segmentation Approach. <i>Molecular Imaging and Biology</i> , 2017, 19, 143-152.	1.3	4
331	On the accuracy and reproducibility of a novel probabilistic atlas-based generation for calculation of head attenuation maps on integrated PET/MR scanners. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 398-407.	3.3	19
332	Comparison of atlas-based techniques for whole-body bone segmentation. <i>Medical Image Analysis</i> , 2017, 36, 98-112.	7.0	42
333	Individual refinement of attenuation correction maps for hybrid PET/MR based on multi-resolution regional learning. <i>Computerized Medical Imaging and Graphics</i> , 2017, 60, 50-57.	3.5	7
334	Uncertainty Analysis in the Calibration of an Emission Tomography System for Quantitative Imaging. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-9.	0.7	3
335	Combined Positron Emission Tomography and Magnetic Resonance Imaging. , 2017, , 334-340.		0
336	Zero TE-based pseudo-CT image conversion in the head and its application in PET/MR attenuation correction and MR-guided radiation therapy planning. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1440-1451.	1.9	80
337	Improving the Accuracy of Simultaneously Reconstructed Activity and Attenuation Maps Using Deep Learning. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1624-1629.	2.8	124
338	Image-Based 2D Re-Projection for Attenuation Substitution in PET Neuroimaging. <i>Molecular Imaging and Biology</i> , 2018, 20, 826-834.	1.3	0
339	The effect of tissue-segmented attenuation maps on PET quantification with a special focus on large arteries. <i>Revista Espanola De Medicina Nuclear E Imagen Molecular</i> , 2018, 37, 94-102.	0.1	1
340	Repeatability of ZTE Bone Maps of the Head. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018, 2, 244-249.	2.7	7
341	PET/MRI Hybrid Systems. <i>Seminars in Nuclear Medicine</i> , 2018, 48, 332-347.	2.5	47
342	MRI-only treatment planning: benefits and challenges. <i>Physics in Medicine and Biology</i> , 2018, 63, 05TR01.	1.6	152
343	Predicting CT Image From MRI Data Through Feature Matching With Learned Nonlinear Local Descriptors. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 977-987.	5.4	42
344	Joint estimation of activity and attenuation for PET using pragmatic MR-based prior: application to clinical TOF PET/MR whole-body data for FDG and non-FDG tracers. <i>Physics in Medicine and Biology</i> , 2018, 63, 045006.	1.6	27
345	PET/MRI: Attenuation Correction. , 2018, , 53-75.		4
346	MR Pulse Sequences for PET/MRI. , 2018, , 27-39.		0

#	ARTICLE	IF	CITATIONS
347	Hybrid cardiac imaging using PET/MRI: a joint position statement by the European Society of Cardiovascular Radiology (ESCR) and the European Association of Nuclear Medicine (EANM). <i>European Radiology</i> , 2018, 28, 4086-4101.	2.3	80
348	Hybrid cardiac imaging using PET/MRI: a joint position statement by the European Society of Cardiovascular Radiology (ESCR) and the European Association of Nuclear Medicine (EANM). <i>European Journal of Hybrid Imaging</i> , 2018, 2, .	0.6	6
349	Simultaneous auto-calibration and gradient delays estimation (SAGE) in non-Cartesian parallel MRI using low-rank constraints. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2006-2016.	1.9	13
350	Effect of region extraction and assigned mass-density values on the accuracy of dose calculation with magnetic resonance-based volumetric arc therapy planning. <i>Radiological Physics and Technology</i> , 2018, 11, 174-183.	1.0	2
351	Advances in PET/MR instrumentation and image reconstruction. <i>British Journal of Radiology</i> , 2018, 91, 20160363.	1.0	47
352	Efecto de la segmentación por tejidos en los mapas de atenuación sobre la cuantificación PET con especial hincapié en grandes arterias. <i>Revista Espanola De Medicina Nuclear E Imagen Molecular</i> , 2018, 37, 94-102.	0.0	0
353	Zero-Echo-Time and Dixon Deep Pseudo-CT (ZeDD CT): Direct Generation of Pseudo-CT Images for Pelvic PET/MRI Attenuation Correction Using Deep Convolutional Neural Networks with Multiparametric MRI. <i>Journal of Nuclear Medicine</i> , 2018, 59, 852-858.	2.8	206
354	Rapid dual-echo ramped hybrid encoding $\langle \text{MR} \rangle$ -based attenuation correction ($\langle \text{dRHE} \rangle$) for $\langle \text{PET/MR} \rangle$. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2912-2922.	1.9	23
355	Systematic Review of Synthetic Computed Tomography Generation Methodologies for Use in Magnetic Resonance Imaging-Only Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 199-217.	0.4	235
356	Evaluation of zero-echo-time attenuation correction for integrated PET/MR brain imaging—comparison to head atlas and ^{68}Ge -transmission-based attenuation correction. <i>EJNMMI Physics</i> , 2018, 5, 20.	1.3	19
358	Accurate hybrid template-based and MR-based attenuation correction using UTE images for simultaneous PET/MR brain imaging applications. <i>BMC Medical Imaging</i> , 2018, 18, 41.	1.4	21
359	A head coil system with an integrated orbiting transmission point source mechanism for attenuation correction in PET/MRI. <i>Physics in Medicine and Biology</i> , 2018, 63, 225014.	1.6	12
360	A dual-tuned $^{13}\text{C}/^{1}\text{H}$ head coil for $\langle \text{PET} \rangle / \langle \text{MR} \rangle$ hybrid neuroimaging: Development, attenuation correction, and first evaluation. <i>Medical Physics</i> , 2018, 45, 4877-4887.	1.6	9
361	Statistical learning in computed tomography image estimation. <i>Medical Physics</i> , 2018, 45, 5450-5460.	1.6	7
362	Hybrid PET/MRI Methodology. <i>International Review of Neurobiology</i> , 2018, 141, 97-128.	0.9	15
363	Advanced Multimodal Methods for Cranial Pseudo-CT Generation Validated by IMRT and VMAT Radiation Therapy Plans. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 792-800.	0.4	6
364	PET/MRI: a frontier in era of complementary hybrid imaging. <i>European Journal of Hybrid Imaging</i> , 2018, 2, 12.	0.6	38
365	Comparative study of algorithms for synthetic $\langle \text{CT} \rangle$ generation from $\langle \text{MRI} \rangle$: Consequences for $\langle \text{MRI} \rangle$ -guided radiation planning in the pelvic region. <i>Medical Physics</i> , 2018, 45, 5218-5233.	1.6	94

#	ARTICLE	IF	CITATIONS
366	Emerging role of MRI in radiation therapy. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1468-1478.	1.9	89
367	Attenuation correction for brain PET imaging using deep neural network based on Dixon and ZTE MR images. <i>Physics in Medicine and Biology</i> , 2018, 63, 125011.	1.6	97
368	Technical Note: Deep learning based MRAC using rapid ultrashort echo time imaging. <i>Medical Physics</i> , 2018, 45, 3697-3704.	1.6	49
369	From simultaneous to synergistic MR-PET brain imaging: A review of hybrid MR-PET imaging methodologies. <i>Human Brain Mapping</i> , 2018, 39, 5126-5144.	1.9	62
370	Towards abdominal MRI-based treatment planning using population-based Hounsfield units for bulk density assignment. <i>Physics in Medicine and Biology</i> , 2018, 63, 155003.	1.6	11
371	Hybrid positron emission tomography-magnetic resonance of the heart: current state of the art and future applications. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 962-974.	0.5	29
372	Improving PET/MR brain quantitation with template-enhanced ZTE. <i>NeuroImage</i> , 2018, 181, 403-413.	2.1	29
373	Neuroinflammation in Neurodegenerative Diseases: Current Multi-modal Imaging Studies and Future Opportunities for Hybrid PET/MRI. <i>Neuroscience</i> , 2019, 403, 125-135.	1.1	26
374	An Efficient Approach to Perform MR-Assisted PET Data Optimization in Simultaneous PET/MR Neuroimaging Studies. <i>Journal of Nuclear Medicine</i> , 2019, 60, 272-278.	2.8	17
375	Impact of non-uniform attenuation correction in a dynamic [18F]-FDOPA brain PET/MRI study. <i>EJNMMI Research</i> , 2019, 9, 77.	1.1	5
376	Novel adversarial semantic structure deep learning for MRI-guided attenuation correction in brain PET/MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2746-2759.	3.3	72
377	Synthetic CT generation from non-attenuation corrected PET images for whole-body PET imaging. <i>Physics in Medicine and Biology</i> , 2019, 64, 215016.	1.6	81
378	A smart brain MR image completion method guided by synthetic-CT-based multimodal registration. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	3.3	3
379	Comparison of PET image quality using simultaneous PET/MR by attenuation correction with various MR pulse sequences. <i>Nuclear Engineering and Technology</i> , 2019, 51, 1610-1615.	1.1	4
380	Generation of PET Attenuation Map for Whole-Body Time-of-Flight ¹⁸ F-FDG PET/MRI Using a Deep Neural Network Trained with Simultaneously Reconstructed Activity and Attenuation Maps. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1183-1189.	2.8	104
381	An Albumin-Binding ¹ T ₁ and ² T ₁ Dual-Modal MRI Contrast Agents for Improved Sensitivity and Accuracy in Tumor Imaging. <i>Bioconjugate Chemistry</i> , 2019, 30, 1821-1829.	1.8	32
382	Design, optimization and performance evaluation of BM-PET: A simulation study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 940, 274-282.	0.7	3
383	UTE-Dixon-based thorax synthetic CT generation. <i>Medical Physics</i> , 2019, 46, 3520-3531.	1.6	17

#	ARTICLE	IF	CITATIONS
384	An Aristotelian View on MR-Based Attenuation Correction (ARISTOMRAC): Combining the Four Elements. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 491-497.	2.7	3
385	Automated Electrodes Detection During Simultaneous EEG/fMRI. <i>Frontiers in ICT</i> , 2019, 5, .	3.6	4
386	Multichannel Residual Conditional GAN-Leveraged Abdominal Pseudo-CT Generation via Dixon MR Images. <i>IEEE Access</i> , 2019, 7, 163823-163830.	2.6	19
387	Regional Accuracy of ZTE-Based Attenuation Correction in Static [18F]FDG and Dynamic [18F]PE2I Brain PET/MR. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	38
388	Intrascanner Reproducibility of an SPM-Based Head MR-Based Attenuation Correction Method. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 327-333.	2.7	9
389	Rapid dual-echo, 3D ultrashort echo time craniofacial imaging: A feasibility study. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3007-3016.	1.9	13
390	MRI-based attenuation correction for brain PET/MRI based on anatomic signature and machine learning. <i>Physics in Medicine and Biology</i> , 2019, 64, 025001.	1.6	40
391	Clinical Feasibility of Zero TE Skull MRI in Patients with Head Trauma in Comparison with CT: A Single-Center Study. <i>American Journal of Neuroradiology</i> , 2019, 40, 109-115.	1.2	38
392	Machine Learning in PET: From Photon Detection to Quantitative Image Reconstruction. <i>Proceedings of the IEEE</i> , 2020, 108, 51-68.	16.4	72
393	Flexible Prediction of CT Images From MRI Data Through Improved Neighborhood Anchored Regression for PET Attenuation Correction. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1114-1124.	3.9	10
394	mDixon-Based Synthetic CT Generation for PET Attenuation Correction on Abdomen and Pelvis Jointly Using Transfer Fuzzy Clustering and Active Learning-Based Classification. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 819-832.	5.4	47
395	Hybrid PET- and MR-driven attenuation correction for enhanced 18F-NaF and 18F-FDG quantification in cardiovascular PET/MR imaging. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 1126-1141.	1.4	17
396	Deep learning-based MR-to-CT synthesis: The influence of varying gradient echo-based MR images as input channels. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1429-1441.	1.9	77
397	Deep learning-based attenuation correction in the absence of structural information for whole-body positron emission tomography imaging. <i>Physics in Medicine and Biology</i> , 2020, 65, 055011.	1.6	97
398	Magnetic Resonance-Based Attenuation Correction and Scatter Correction in Neurological Positron Emission Tomography/Magnetic Resonance Imaging—Current Status With Emerging Applications. <i>Frontiers in Physics</i> , 2020, 7, .	1.0	24
399	PET/MRI attenuation estimation in the lung: A review of past, present, and potential techniques. <i>Medical Physics</i> , 2020, 47, 790-811.	1.6	19
400	Diagnostic Value of FDG PET/MRI in Females With Pelvic Malignancy—A Systematic Review of the Literature. <i>Frontiers in Oncology</i> , 2020, 10, 519440.	1.3	16
401	Advances in multimodal data fusion in neuroimaging: Overview, challenges, and novel orientation. <i>Information Fusion</i> , 2020, 64, 149-187.	11.7	235

#	ARTICLE	IF	CITATIONS
402	A new deep convolutional neural network design with efficient learning capability: Application to CT image synthesis from MRI. <i>Medical Physics</i> , 2020, 47, 5158-5171.	1.6	71
403	Generation of Pseudo-CT using High-Degree Polynomial Regression on Dual-Contrast Pelvic MRI Data. <i>Scientific Reports</i> , 2020, 10, 8118.	1.6	7
404	BPGAN: Bidirectional CT-to-MRI prediction using multi-generative multi-adversarial nets with spectral normalization and localization. <i>Neural Networks</i> , 2020, 128, 82-96.	3.3	22
405	Deep learning-guided joint attenuation and scatter correction in multitracer neuroimaging studies. <i>Human Brain Mapping</i> , 2020, 41, 3667-3679.	1.9	52
406	Estimating CT from MR Abdominal Images Using Novel Generative Adversarial Networks. <i>Journal of Grid Computing</i> , 2020, 18, 211-226.	2.5	24
407	Self-Navigated Three-Dimensional Ultrashort Echo Time Technique for Motion-Corrected Skull MRI. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2869-2880.	5.4	8
408	MR Image-Based Attenuation Correction of Brain PET Imaging: Review of Literature on Machine Learning Approaches for Segmentation. <i>Journal of Digital Imaging</i> , 2020, 33, 1224-1241.	1.6	14
409	Pseudo-CT generation from multi-parametric MRI using a novel multi-channel multi-path conditional generative adversarial network for nasopharyngeal carcinoma patients. <i>Medical Physics</i> , 2020, 47, 1750-1762.	1.6	52
410	MRI-only Radiation Therapy: Pseudo-CT Based on Cubic-Feature Extraction and Alternative Regression Forest. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2020, 34, 2054033.	0.7	1
411	MR-based PET attenuation correction using a combined ultrashort echo time/multi-echo Dixon acquisition. <i>Medical Physics</i> , 2020, 47, 3064-3077.	1.6	12
412	Transforming UTE-mDixon MR Abdomen-Pelvis Images Into CT by Jointly Leveraging Prior Knowledge and Partial Supervision. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021, 18, 70-82.	1.9	9
413	A Review of Deep-Learning-Based Approaches for Attenuation Correction in Positron Emission Tomography. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 160-184.	2.7	58
414	MR-Based Attenuation Correction for Brain PET Using 3-D Cycle-Consistent Adversarial Network. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 185-192.	2.7	22
415	Trajectory correction based on the gradient impulse response function improves high-resolution UTE imaging of the musculoskeletal system. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2001-2015.	1.9	12
416	MRI-based Synthetic CT in the Detection of Structural Lesions in Patients with Suspected Sacroiliitis: Comparison with MRI. <i>Radiology</i> , 2021, 298, 343-349.	3.6	80
417	Hybrid Imaging of Vascular Cognitive Impairment. <i>Seminars in Nuclear Medicine</i> , 2021, 51, 286-295.	2.5	13
418	Automated and Radiation-Free Generation of Synthetic CT from MRI Data: Does AI Help to Cross the Finish Line?. <i>Radiology</i> , 2021, 298, 350-352.	3.6	12
419	Attenuation correction using deep Learning and integrated UTE/multi-echo Dixon sequence: evaluation in amyloid and tau PET imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1351-1361.	3.3	14

#	ARTICLE	IF	CITATIONS
420	Variable echo time imaging for detecting the short T2* components of the sciatic nerve: a validation study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 411-419.	1.1	1
421	An investigation into the minimum number of tissue groups required for 7T in silico parallel transmit electromagnetic safety simulations in the human head. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1114-1122.	1.9	10
422	Anatomical multiatlas segmentation using local texture statistical properties for matching descriptor with machine learning. <i>International Journal of Imaging Systems and Technology</i> , 2021, 31, 1437-1454.	2.7	0
423	MRI classification using semantic random forest with auto-context model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 4753-4766.	1.1	1
424	Deep learning-based T1-enhanced selection of linear attenuation coefficients (DL-TESLA) for PET/MR attenuation correction in dementia neuroimaging. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 499-513.	1.9	11
425	A feature invariant generative adversarial network for head and neck MRI/CT image synthesis. <i>Physics in Medicine and Biology</i> , 2021, 66, 095001.	1.6	10
426	The effect of the scatter correction obtained using single scatter simulations with CT- and MR-based attenuation maps for 18F-FDG brain PET. <i>Journal of the Korean Physical Society</i> , 2021, 79, 95-104.	0.3	0
427	Accurate Transmission-Less Attenuation Correction Method for Amyloid- β Brain PET Using Deep Neural Network. <i>Electronics (Switzerland)</i> , 2021, 10, 1836.	1.8	7
428	Deep Learning-Based Localization of EEG Electrodes Within MRI Acquisitions. <i>Frontiers in Neurology</i> , 2021, 12, 644278.	1.1	3
429	Generating pseudo-computerized tomography (P-CT) scan images from magnetic resonance imaging (MRI) images using machine learning algorithms based on fuzzy theory for radiotherapy treatment planning. <i>Medical Physics</i> , 2021, 48, 7016-7027.	1.6	2
430	Evaluation of attenuation correction in PET/MRI with synthetic lesion insertion. <i>Journal of Medical Imaging</i> , 2021, 8, 056001.	0.8	3
431	Cumulative radiation doses from recurrent PET-CT examinations. <i>British Journal of Radiology</i> , 2021, 94, 20210388.	1.0	14
432	3D MRI with CT-like bone contrast – An overview of current approaches and practical clinical implementation. <i>European Journal of Radiology</i> , 2021, 143, 109915.	1.2	24
433	Prediction of CT Substitutes from MR Images Based on Local Sparse Correspondence Combination. <i>Lecture Notes in Computer Science</i> , 2015, , 93-100.	1.0	8
434	Image Distortions in Clinical PET/MR Imaging. , 2014, , 21-41.		5
435	Attenuation Correction Synthesis for Hybrid PET-MR Scanners. <i>Lecture Notes in Computer Science</i> , 2013, 16, 147-154.	1.0	31
436	Deep learning-guided estimation of attenuation correction factors from time-of-flight PET emission data. <i>Medical Image Analysis</i> , 2020, 64, 101718.	7.0	39
437	Attenuation correction for human PET/MRI studies. <i>Physics in Medicine and Biology</i> , 2020, 65, 23TR02.	1.6	27

#	ARTICLE	IF	CITATIONS
438	Comparison of deep learning synthesis of synthetic CTs using clinical MRI inputs. <i>Physics in Medicine and Biology</i> , 2020, 65, 23NT03.	1.6	19
439	Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	15
440	A realistic phantom of the human head for PET-MRI. <i>EJNMMI Physics</i> , 2020, 7, 52.	1.3	9
441	MRI-Only Based Radiotherapy Treatment Planning for the Rat Brain on a Small Animal Radiation Research Platform (SARRP). <i>PLoS ONE</i> , 2015, 10, e0143821.	1.1	18
442	Radioactive Nanomaterials for Multimodality Imaging. <i>Tomography</i> , 2016, 2, 3-16.	0.8	22
443	MRI-based radiotherapy planning method using rigid image registration technique combined with outer body correction scheme: a feasibility study. <i>Oncotarget</i> , 2017, 8, 54497-54505.	0.8	2
444	FDG PET/MR Imaging in Major Neurocognitive Disorders. <i>Current Alzheimer Research</i> , 2017, 14, 186-197.	0.7	13
445	A review on methods to estimate a CT from MRI data in the context of MRI-alone RT. <i>Medical Technologies Journal</i> , 2018, 2, 150-178.	0.5	10
446	Integrated 18F-fluorodeoxyglucose positron emission tomography magnetic resonance imaging (18F-FDG PET/MRI), a multimodality approach for comprehensive evaluation of dementia patients: A pictorial essay. <i>Indian Journal of Radiology and Imaging</i> , 2015, 25, 342-352.	0.3	7
447	Feasibility of a Direct-Conversion Method from Magnetic Susceptibility to Relative Electron Density for Radiation Therapy Treatment Planning. <i>International Journal of Medical Physics, Clinical Engineering and Radiation Oncology</i> , 2017, 06, 252-265.	0.3	3
448	Application of fluorodeoxyglucose positron emission tomography in the management of head and neck cancers. <i>World Journal of Radiology</i> , 2014, 6, 238.	0.5	13
449	Application of positron emission tomography/computed tomography in radiation treatment planning for head and neck cancers. <i>World Journal of Radiology</i> , 2015, 7, 382.	0.5	6
450	Attenuation Coefficient Estimation for PET/MRI With Bayesian Deep Learning Pseudo-CT and Maximum-Likelihood Estimation of Activity and Attenuation. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 678-689.	2.7	4
451	Technical Principles and Protocols of PET/MR Imaging. , 2013, , 29-40.		1
452	PET/MR in Colorectal Cancer. , 2014, , 95-108.		1
453	Workflow and Practical Logistics. , 2014, , 43-52.		0
454	Hybrid Imaging: From Anatomy to Function. , 2014, , 51-79.		0
455	MRI/PET Brain Imaging. , 2014, , 93-137.		0

#	ARTICLE	IF	CITATIONS
456	Potential Role of Cardiac PET/MRI in Cardiovascular Disease: Initial Experience. , 2015, , 13-27.		0
457	Imaging Techniques in Stereotactic Radiosurgery. , 2015, , 11-23.		2
458	Technical Improvements. , 2018, , 9-22.		0
459	Multimodale SPECT- und PET-Bildgebung. , 2018, , 365-376.		0
460	An Investigation of the Required MR Bone Attenuation Correction for Quantitative Whole-Body PET/MR Imaging Using Clinical NaF PET/CT Studies. International Journal of Medical Physics, Clinical Engineering and Radiation Oncology, 2018, 07, 273-295.	0.3	0
462	Introduction of a simple algorithm to create synthetic-Computed tomography of the head from magnetic resonance imaging. Journal of Medical Signals and Sensors, 2019, 9, 123.	0.5	2
463	PET/MRI: "Inflammation", 2022, , 243-264.		0
464	Imaging cardiac sarcoidosis and infiltrative diseases: diagnosis and therapeutic response. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2020, 64, 51-73.	0.4	2
466	Improved PET/MRI attenuation correction in the pelvic region using a statistical decomposition method on T2-weighted images. EJNMMI Physics, 2020, 7, 68.	1.3	2
467	Image quality assessment of automatic three-segment MR attenuation correction vs. CT attenuation correction. American Journal of Nuclear Medicine and Molecular Imaging, 2013, 3, 291-9.	1.0	10
468	Probabilistic atlas-based segmentation of combined T1-weighted and DUTE MRI for calculation of head attenuation maps in integrated PET/MRI scanners. American Journal of Nuclear Medicine and Molecular Imaging, 2014, 4, 160-71.	1.0	23
469	Clinical oncologic applications of PET/MRI: a new horizon. American Journal of Nuclear Medicine and Molecular Imaging, 2014, 4, 202-12.	1.0	54
470	New Pseudo-CT Generation Approach from Magnetic Resonance Imaging using a Local Texture Descriptor. Journal of Biomedical Physics and Engineering, 2018, 8, 53-64.	0.5	5
471	Attenuation Correction and Quantitative PET Analysis. , 2022, , 17-25.		0
472	A CT-less approach to quantitative PET imaging using the LSO intrinsic radiation for long-axial FOV PET scanners. Medical Physics, 2022, 49, 309-323.	1.6	21
473	The Use of Dual Modality PET/MRI in Population Studies: Considerations on Exposures, Economics, Strengths, and Limitations. , 2022, , 35-44.		0
474	Pseudo-CT generation from multiple MR images for small animal irradiation. , 2014, , .		0
475	Synthesizing Human Brain Computed Tomography Images from Magnetic Resonance Images Based on Machine Learning. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
476	Technical note: A PET/MR coil with an integrated, orbiting 511 keV transmission source for PET/MR imaging validated in an animal study. <i>Medical Physics</i> , 2022, 49, 2366-2372.	1.6	3
477	A multi-modality medical imaging head and neck phantom: Part 2. Medical imaging. <i>Physica Medica</i> , 2022, 96, 179-197.	0.4	2
478	Comparison of deep learning-based emission-only attenuation correction methods for positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 1833-1842.	3.3	11
480	Development of a GAN architecture based on integrating global and local information for paired and unpaired medical image translation. <i>Expert Systems With Applications</i> , 2022, 203, 117421.	4.4	2
481	Medical image translation using an edge-guided generative adversarial network with global-to-local feature fusion. <i>Journal of Biomedical Research</i> , 2022, 36, 1.	0.7	0
483	Impact of CT-Based and MRI-Based Attenuation Correction Methods on 18F-FDG PET Quantification Using PET Phantoms. <i>Journal of Medical and Biological Engineering</i> , 0, , .	1.0	0
484	Bone visualization of the cervical spine with deep learning-based synthetic CT compared to conventional CT: A single-center noninferiority study on image quality. <i>European Journal of Radiology</i> , 2022, 154, 110414.	1.2	13
485	Eliminating CT radiation for clinical PET examination using deep learning. <i>European Journal of Radiology</i> , 2022, 154, 110422.	1.2	4
486	PET/MRI attenuation correction. , 2022, , 393-422.		0
487	Medical image synthesis using segmentation and registration. , 2022, , 55-77.		0
488	A deep learning-based whole-body solution for PET/MRI attenuation correction. <i>EJNMMI Physics</i> , 2022, 9, .	1.3	5
489	Radiomics and artificial intelligence. , 2023, , 365-401.		0
490	Prediction of motion induced magnetic fields for human brain MRI at 3T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 0, , .	1.1	0
491	DeepDixon synthetic CT for [18F]FET PET/MRI attenuation correction of post-surgery glioma patients with metal implants. <i>Frontiers in Neuroscience</i> , 0, 17, .	1.4	3
497	MR-Based Attenuation Correction in PET-MRI. , 2023, , 561-573.		0