

2027 ISMRM Abstract Categories and Keywords

#	Category	Subcategory	Keywords <i>Not category-specific</i>
101	Acquisition & Reconstruction	AI methods	Abbreviated/Rapid MRI
102	Acquisition & Reconstruction	Non-AI methods	Acquisition Methods
103	Acquisition & Reconstruction	Artifacts and Correction Strategies	Adnexa
104	Acquisition & Reconstruction	Image Reconstruction: AI	Age
105	Acquisition & Reconstruction	Image Reconstruction: Non-AI	Analysis/Processing
106	Acquisition & Reconstruction	Motion Correction: Neuro	Angiography
107	Acquisition & Reconstruction	Motion Correction: Non-Neuro	Animals
108	Acquisition & Reconstruction	New Signal Preparation Schemes	Arrhythmia
109	Acquisition & Reconstruction	Pulse Sequence Design and Spatial Encoding Methods	Bladder
110	Acquisition & Reconstruction	Pulse Sequence Design: Neuro	Blood
111	Acquisition & Reconstruction	Pulse Sequence Design: Non-Neuro	Brain
112	Acquisition & Reconstruction	Signal Modeling	Brain Connectivity
113	Acquisition & Reconstruction	Subsampling: Parallel Imaging, Compressed Sensing & Low-Rank Modeling	Cardiomyopathy
114	Acquisition & Reconstruction	Quantitative Imaging: Relaxometry, Multi-Parametric, MR Fingerprinting, & Synthetic MRI	Cell Tracking & Reporter Genes
115	Acquisition & Reconstruction	Quantitative Imaging: Head and neck	CEST & MT
116	Acquisition & Reconstruction	Quantitative Imaging: Chest, Abdomen, & Pelvis	Challenges
117	Acquisition & Reconstruction	Quantitative Imaging: Spine, MSK, Others	Compressed Sensing
118	Acquisition & Reconstruction	Spectroscopy & Spectroscopic Imaging	Contrast Mechanisms
119	Acquisition & Reconstruction	Open Source Software, Sequences, & Reconstruction Algorithms	COVID-19
301	Analysis Methods	Data Processing	Data Acquisition
302	Analysis Methods	Radiomics	Data Analysis
303	Analysis Methods	Software Tools	Degenerative
304	Analysis Methods	Visualization	Diabetes
305	Analysis Methods	Image Registration and Alignment	Diagnosis/Prediction
306	Analysis Methods	Image Enhancement	Diffusion
307	Analysis Methods	Image Synthesis and Translation	Diffusion Denoising
308	Analysis Methods	Segmentation and Detection	Drug Development
309	Analysis Methods	Classification and Prediction	Drugs
310	Analysis Methods	Multi-Modal Learning with LLMs/VLMs	DSC & DCE Perfusion
311	Analysis Methods	Generative Models	Effective Connectivity
312	Analysis Methods	Foundation Models	Ex-Vivo Applications
401	Body	Biliary	Female
402	Body	Body Composition	fMRI (resting state)
403	Body	Breast	fMRI (task based)
404	Body	Chest/Thorax	Focused Ultrasound
405	Body	Digestive	Genetic Diseases
406	Body	Endocrine	Glymphatics
407	Body	Fetal	Health Care Economics
408	Body	Liver	Heart
409	Body	Lung	Hematologic
410	Body	Metabolism	High Field
411	Body	Pancreas	Hypertension
412	Body	Pelvis	Infection
413	Body	Placenta	Ischemia
414	Body	Prostate	Joints
415	Body	Urogenital	Kidney
416	Body	Uterus	Language Models
417	Body	Vessels	Large animals, nonhuman primates
418	Body	Whole Body Imaging	Low Field
419	Body	Kidney	Male
420	Body	Spleen	Metabolism
501	Cardiovascular	Arrhythmia	Modelling
502	Cardiovascular	Atherosclerosis	MR Fingerprinting
503	Cardiovascular	Flow	MR Fingerprinting/Synthetic MR
504	Cardiovascular	Heart Failure	MR Value
505	Cardiovascular	Hematology, Oncology	Myelography
506	Cardiovascular	Inflammation, Infiltration	Nerves
507	Cardiovascular	Myocardium	Nervous system
508	Cardiovascular	Valves	Neurodegeneration
509	Cardiovascular	Vascular and Vessel Wall	Neuroscience
510	Cardiovascular	Myocardial Infarct	New Trajectories & Spatial Encoding Methods
601	Contrast Mechanisms	Arterial Spin Labelling	Parallel Imaging
602	Contrast Mechanisms	CEST / APT / NOE	Pediatric
603	Contrast Mechanisms	Contrast Agents	Permeability
604	Contrast Mechanisms	Deuterium	Phantom
605	Contrast Mechanisms	Elastography	Pharmacology
606	Contrast Mechanisms	Electromagnetic Tissue Properties	Precision & Accuracy
607	Contrast Mechanisms	Electron Paramagnetic Resonance	Preclinical
608	Contrast Mechanisms	Fat & Fat/Water Separation	Preclinical image analysis
609	Contrast Mechanisms	Hybrid Imaging	Prevention
610	Contrast Mechanisms	Hyperpolarized MR (Gas)	Probes and Targets
611	Contrast Mechanisms	Hyperpolarized MR (Non-Gas)	Quantitative

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612	Contrast Mechanisms	Magnetization Transfer	Radiotherapy
613	Contrast Mechanisms	Microstructure	Relaxation
614	Contrast Mechanisms	Molecular Imaging	Reproductive
615	Contrast Mechanisms	Multi-Contrast	Rheumatoid Arthritis
616	Contrast Mechanisms	Non-Proton	Screening
617	Contrast Mechanisms	Novel Contrast Mechanisms	Signal Representations
618	Contrast Mechanisms	Oxygenation	Simulations
619	Contrast Mechanisms	Relaxometry	Skeletal
620	Contrast Mechanisms	Spectroscopy	Sparse & Low-Rank Models
621	Contrast Mechanisms	Susceptibility/QSM	Spectroscopy
622	Contrast Mechanisms	Thermometry	Structural Connectivity
623	Contrast Mechanisms	Velocity/Flow	Surgery
624	Contrast Mechanisms	Perfusion	Thorax
625	Contrast Mechanisms	Diffusion	Thrombo-Embolitic
701	Diffusion	Diffusion Acquisition	Tissue Characterization
702	Diffusion	Diffusion Analysis & Visualization	Toxicity
703	Diffusion	Diffusion Modeling	Tractography & Fibre Modelling
704	Diffusion	Diffusion Reconstruction	Translational Studies
705	Diffusion	Diffusion Software	Transplantation
706	Diffusion	DWI/DTI/DKI	Trauma
707	Diffusion	IVIM	Treatment
708	Diffusion	Microstructure	Treatment Response
709	Diffusion	Simulation/Validation	Validation
710	Diffusion	Tractography	Vessel Wall
711	Diffusion	Exchange	
712	Diffusion	Relaxation	
713	Diffusion	Diffusion Time Dependence	
801	Brain Function and fMRI	fMRI Acquisition	
802	Brain Function and fMRI	fMRI Analysis	
803	Brain Function and fMRI	Functional Connectivity	
804	Brain Function and fMRI	Task/Intervention Based fMRI	
805	Brain Function and fMRI	fMRI & Neuromodulation	
901	Interventional	Devices	
902	Interventional	MR-Guided Focused Ultrasound	
903	Interventional	MR-Guided Interventions	
904	Interventional	MR-Guided Radiotherapy	
905	Interventional	Other Interventional	
906	Interventional	Thermometry/Thermotherapy	
907	Interventional	MR-Guided Neuromodulation	
1001	Musculoskeletal	Bone	
1002	Musculoskeletal	Cartilage	
1003	Musculoskeletal	Whole Joint	
1004	Musculoskeletal	Muscle	
1005	Musculoskeletal	Neurography	
1006	Musculoskeletal	Osteoarthritis	
1007	Musculoskeletal	Other Musculoskeletal	
1008	Musculoskeletal	Functional/Dynamic	
1009	Musculoskeletal	Tendon/Ligament	
1101	Neuro	Aging	
1102	Neuro	Alzheimer's Disease	
1103	Neuro	Blood Vessels	
1104	Neuro	Dementia	
1105	Neuro	Development	
1106	Neuro	Epilepsy	
1107	Neuro	Gray Matter	
1108	Neuro	Head & Neck/ENT	
1109	Neuro	Hydrocephalus	
1110	Neuro	Infectious Disease	
1111	Neuro	Multiple Sclerosis	
1112	Neuro	Neurofluids	
1113	Neuro	Neuroinflammation	
1114	Neuro	Neurotherapeutics	
1115	Neuro	Neurotransmission	
1116	Neuro	Other Neurodegeneration	
1117	Neuro	Parkinson's Disease	
1118	Neuro	Peripheral Nerves	
1119	Neuro	Psychiatric Disorders	
1120	Neuro	Spinal Cord	
1121	Neuro	Stroke and Cerebrovascular Disorders	
1122	Neuro	Traumatic Brain Injury	
1123	Neuro	Tumors	
1124	Neuro	White Matter	

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1125	Neuro	Neuromodulation	
1126	Neuro	Vascular Dementia	
1201	Pediatrics	Adolescents	
1202	Pediatrics	Body	
1203	Pediatrics	Cancer	
1204	Pediatrics	Cardiovascular	
1205	Pediatrics	Fetal	
1206	Pediatrics	Genetics	
1207	Pediatrics	MSK	
1208	Pediatrics	Neonatal	
1209	Pediatrics	Neuro	
1210	Pediatrics	Normal Development	
1211	Pediatrics	Prenatal	
1212	Pediatrics	Rare Disease	
1301	Physics & Engineering	Bioeffects & Magnetic Fields	
1302	Physics & Engineering	Gradients	
1303	Physics & Engineering	High-Field MRI	
1304	Physics & Engineering	Hybrid & Novel Systems Technology	
1305	Physics & Engineering	In Silico	
1306	Physics & Engineering	Interventional Devices	
1307	Physics & Engineering	Low-Field MRI	
1308	Physics & Engineering	Magnets (B0)	
1309	Physics & Engineering	Multimodal	
1310	Physics & Engineering	New Devices	
1311	Physics & Engineering	Non-Array RF Coils, Antennas & Waveguides	
1312	Physics & Engineering	Parallel Transmit & Multiband	
1313	Physics & Engineering	PET/MR	
1314	Physics & Engineering	Phantoms	
1315	Physics & Engineering	RF Arrays & Systems	
1316	Physics & Engineering	RF Pulse Design & Fields	
1317	Physics & Engineering	Safety	
1318	Physics & Engineering	Shims	
1319	Physics & Engineering	System Imperfections	
1320	Physics & Engineering	Whole Body	
1401	Preclinical Animal & in vitro MR	Biology, Models, Methods	
1402	Preclinical Animal & in vitro MR	Biomarkers	
1403	Preclinical Animal & in vitro MR	Large Animals, Nonhuman Primates	
1404	Preclinical Animal & in vitro MR	Other Preclinical	
1405	Preclinical Animal & in vitro MR	Probes & Targets	
1406	Preclinical Animal & in vitro MR	Small Animals	