

Hector SI Sanchez-Lopez

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

343
citations

840776

11
h-index

940533

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16
all docs

16
docs citations

16
times ranked

259
citing authors

#	ARTICLE	IF	CITATIONS
1	Equivalent Magnetization Current Method Applied to the Design of Gradient Coils for Magnetic Resonance Imaging. IEEE Transactions on Magnetics, 2009, 45, 767-775.	2.1	50
2	Passive Shim Design and a Shimming Approach for Biplanar Permanent Magnetic Resonance Imaging Magnets. IEEE Transactions on Magnetics, 2008, 44, 394-402.	2.1	40
3	Minimax current density coil design. Journal Physics D: Applied Physics, 2010, 43, 095001.	2.8	32
4	Eddy current simulation in thick cylinders of finite length induced by coils of arbitrary geometry. Journal of Magnetic Resonance, 2010, 207, 251-261.	2.1	31
5	An improved equivalent magnetization current method applied to the design of local breast gradient coils. Journal of Magnetic Resonance, 2009, 199, 48-55.	2.1	28
6	Multilayer integral method for simulation of eddy currents in thin volumes of arbitrary geometry produced by MRI gradient coils. Magnetic Resonance in Medicine, 2014, 71, 1912-1922.	3.0	27
7	Flanged-edge transverse gradient coil design for a hybrid LINAC-MRI system. Journal of Magnetic Resonance, 2013, 226, 70-78.	2.1	22
8	Simulation of Gradient-Coil-Induced Eddy Currents and Their Effects on a Head-Only HTS MRI Magnet. IEEE Transactions on Applied Superconductivity, 2011, 21, 3592-3598.	1.7	21
9	An analysis of the gradient-induced electric fields and current densities in human models when situated in a hybrid MRI-LINAC system. Physics in Medicine and Biology, 2014, 59, 233-245.	3.0	20
10	Three-Dimensional Gradient Coil Structures for Magnetic Resonance Imaging Designed Using Fuzzy Membership Functions. IEEE Transactions on Magnetics, 2007, 43, 3558-3566.	2.1	15
11	Skin and proximity effects in the conductors of split gradient coils for a hybrid Linac-MRI scanner. Journal of Magnetic Resonance, 2014, 242, 86-94.	2.1	13
12	A Simple Relationship for High Efficiency-Gradient Uniformity Tradeoff in Multilayer Asymmetric Gradient Coils for Magnetic Resonance Imaging. IEEE Transactions on Magnetics, 2007, 43, 523-532.	2.1	12
13	Simulation and analysis of the interactions between split gradient coils and a split magnet cryostat in an MRI-PET system. Journal of Magnetic Resonance, 2012, 222, 8-15.	2.1	10
14	Numerical Safety Study of Currents Induced in the Patient During Rotations in the Static Field Produced by a Hybrid MRI-LINAC System. IEEE Transactions on Biomedical Engineering, 2014, 61, 784-793.	4.2	10
15	Evaluating passively shielded gradient coil configurations for optimal eddy current compensation. Journal Physics D: Applied Physics, 2010, 43, 195005.	2.8	7
16	Toward designing asymmetric head gradient coils for high-resolution imaging. Concepts in Magnetic Resonance Part B, 2007, 31B, 1-11.	0.7	5