Valentina Hartwig

List of Publications by Year
in descending order

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72	883	567247 15	552766 26
papers	citations	h-index	g-index

73	73	73	1063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effectiveness of Blue light photobiomodulation therapy in the treatment of chronic wounds. Results of the Blue Light for Ulcer Reduction (B.L.U.R.) Study. Italian Journal of Dermatology and Venereology, 2022, 157, .	0.2	9
2	Occupational exposure to electromagnetic fields in magnetic resonance environment: an update on regulation, exposure assessment techniques, health risk evaluation, and surveillance. Medical and Biological Engineering and Computing, 2022, 60, 297-320.	2.8	11
3	Occupational Exposure Assessment of the Static Magnetic Field Generated by Nuclear Magnetic Resonance Spectroscopy: A Case Study. International Journal of Environmental Research and Public Health, 2022, 19, 7674.	2.6	4
4	Numerical Analysis of Electromagnetic Field Exposure from 5G Mobile Communications at 28 GHZ in Adults and Children Users for Real-World Exposure Scenarios. International Journal of Environmental Research and Public Health, 2021, 18, 1073.	2.6	25
5	Breath-hold task induces temporal heterogeneity in electroencephalographic regional field power in healthy subjects. Journal of Applied Physiology, 2021, 130, 298-307.	2.5	1
6	The Core of Medical Imaging: State of the Art and Perspectives on the Detectors. Electronics (Switzerland), 2021, 10, 1642.	3.1	9
7	Mapping dependencies of BOLD signal change to end-tidal CO2: Linear and nonlinear modeling, and effect of physiological noise correction. Journal of Neuroscience Methods, 2021, 362, 109317.	2.5	1
8	Potential markers of healing from near infrared spectroscopy imaging of venous leg ulcer. A randomized controlled clinical trial comparing conventional with hyperbaric oxygen treatment. Wound Repair and Regeneration, 2020, 28, 856-866.	3.0	14
9	Ld-EEG Effective Brain Connectivity in Patients With Cheyne-Stokes Respiration. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1216-1225.	4.9	6
10	Analysis, comparison and representation of occupational exposure to a static magnetic field in a 3-T MRI site. International Journal of Occupational Safety and Ergonomics, 2020, , 1-10.	1.9	7
11	Near-infrared spectroscopic imaging of the whole hand: A new tool to assess tissue perfusion and peripheral microcirculation in scleroderma. Seminars in Arthritis and Rheumatism, 2019, 48, 867-873.	3.4	12
12	The Procedure for Quantitative Characterization and Analysis of Magnetic Fields in Magnetic Resonance Sites for Protection of Workers: A Pilot Study. Annals of Work Exposures and Health, 2019, 63, 328-336.	1.4	4
13	A Pilot Study of Infrared Thermography Based Assessment of Local Skin Temperature Response in Overweight and Lean Women during Oral Glucose Tolerance Test. Journal of Clinical Medicine, 2019, 8, 260.	2.4	15
14	Exploring the supra linear relationship between PetCO2 and fMRI signal change with ICA. , 2019, 2019, 4795-4798.		1
15	Device for the assessment of occupational exposure to timeâ€varying magnetic field due to movement in magnetic resonance environments. Electronics Letters, 2019, 55, 579-581.	1.0	2
16	Occupational exposure to electromagnetic fields in magnetic resonance environment: basic aspects and review of exposure assessment approaches. Medical and Biological Engineering and Computing, 2018, 56, 531-545.	2.8	16
17	Assessment of hand superficial oxygenation during ischemia/reperfusion in healthy subjects versus systemic sclerosis patients by 2D near infrared spectroscopic imaging. Computer Methods and Programs in Biomedicine, 2018, 155, 101-108.	4.7	9
18	Numerical evaluation of human exposure to WiMax patch antenna in tablet or laptop. Bioelectromagnetics, 2018, 39, 414-422.	1.6	2

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19	TOWARDS A PERSONALISED AND INTERACTIVE ASSESSMENT OF OCCUPATIONAL EXPOSURE TO MAGNETIC FIELD DURING DAILY ROUTINE IN MAGNETIC RESONANCE. Radiation Protection Dosimetry, 2018, 182, 546-554.	0.8	7
20	Systematic Review of fMRI Compatible Devices: Design and Testing Criteria. Annals of Biomedical Engineering, 2017, 45, 1819-1835.	2.5	17
21	Multimodal Imaging for the Detection of Brown Adipose Tissue Activation in Women: A Pilot Study Using NIRS and Infrared Thermography. Journal of Healthcare Engineering, 2017, 2017, 1-6.	1.9	20
22	Near infrared image processing to quantitate and visualize oxygen saturation during vascular occlusion. Computer Methods and Programs in Biomedicine, 2016, 126, 35-45.	4.7	3
23	Assessment of Microvascular Function Using Near-Infrared Spectroscopic 2D Imaging of Whole Hand Combined with Vascular Occlusion Test. Journal of Medical and Biological Engineering, 2016, 36, 87-95.	1.8	5
24	Decoupling and shielding numerical optimization of MRI phased-array coils. Measurement: Journal of the International Measurement Confederation, 2016, 82, 450-460.	5.0	8
25	Correlational analysis of electroencephalographic and end-tidal carbon dioxide signals during breath-hold exercise. , 2015, 2015, 6102-5.		4
26	Two-Dimensional near Infrared Spectroscopic Imaging of the Hand to Assess Microvascular Abnormalities in Systemic Sclerosis: A Pilot Study. Journal of Near Infrared Spectroscopy, 2015, 23, 59-66.	1.5	5
27	Design and simulation of a dual-tuned 1H/23Na birdcage coil for MRS studies in human calf. Applied Magnetic Resonance, 2015, 46, 1221-1238.	1.2	8
28	Engineering for safety assurance in MRI: analytical, numerical and experimental dosimetry. Magnetic Resonance Imaging, 2015, 33, 681-689.	1.8	13
29	Simulation and comparison of coils for Hyperpolarized 13 C MRS cardiac metabolism studies in pigs. Measurement: Journal of the International Measurement Confederation, 2015, 60, 78-84.	5.0	4
30	Radiofrequency Coils for Magnetic Resonance Applications: Theory, Design, and Evaluation. Critical Reviews in Biomedical Engineering, 2014, 42, 109-135.	0.9	21
31	Estimation of occupational exposure to static magnetic fields due to usual movements in magnetic resonance units. Concepts in Magnetic Resonance Part B, 2014, 44, 75-81.	0.7	9
32	Transmit-Only/Receive-Only Radiofrequency System for Hyperpolarized 13C MRS Cardiac Metabolism Studies in Pigs. Applied Magnetic Resonance, 2013, 44, 1125-1138.	1.2	5
33	FDTD Analysis of a Radiofrequency Knee Coil for Low-Field MRI: Sample-Induced Resistance and Decoupling Evaluation. Applied Magnetic Resonance, 2013, 44, 1393-1403.	1.2	8
34	Efficiency evaluation of a 13C Magnetic Resonance birdcage coil: Theory and comparison of four methods. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2201-2205.	5.0	5
35	Magnetic resonance butterfly coils: Design and application for hyperpolarized 13C studies. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3282-3290.	5.0	9
36	Computational Analysis of a Radiofrequency Knee Coil for Low-Field MRI Using FDTD. Applied Magnetic Resonance, 2013, 44, 389-400.	1.2	14

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37	Design of a quadrature surface coil for hyperpolarized ¹³C MRS cardiac metabolism studies in pigs. Concepts in Magnetic Resonance Part B, 2013, 43, 69-77.	0.7	9
38	Segmentation Using Near-Infrared Imaging: An Application to Skin De-oxygenation. , 2013, , .		0
39	A novel method for coil efficiency estimation: Validation with a 13C birdcage. Concepts in Magnetic Resonance Part B, 2012, 41B, 139-143.	0.7	2
40	P2.21 AORTIC AND CAROTID PWV ASSESSMENT: A MULTI-TECHNIQUE APPROACH. Artery Research, 2012, 6, 169.	0.6	0
41	Classical and lateral skin effect contributions estimation in strip MR coils. Concepts in Magnetic Resonance Part B, 2012, 41B, 57-61.	0.7	20
42	Filter design for phasedâ€array mr image reconstruction using super algorithm. Concepts in Magnetic Resonance Part B, 2012, 41B, 85-93.	0.7	1
43	Hyperpolarized 13C MRS Cardiac Metabolism Studies in Pigs: Comparison Between Surface and Volume Radiofrequency Coils. Applied Magnetic Resonance, 2012, 42, 413-428.	1.2	18
44	Coil Sensitivity Estimation with Perturbing Sphere Method: Application to 13C Birdcages. Applied Magnetic Resonance, 2012, 42, 511-518.	1.2	10
45	FMRI Compatible Sensing Glove for Hand Gesture Monitoring. Springer Series on Touch and Haptic Systems, 2012, , 215-228.	0.3	2
46	Sample-Induced Resistance Estimation in Magnetic Resonance Experiments: Simulation and Comparison of Two Methods. Applied Magnetic Resonance, 2011, 40, 351-361.	1.2	12
47	A novel tool for estimation of magnetic resonance occupational exposure to spatially varying magnetic fields. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2011, 24, 323-330.	2.0	21
48	B1+/actual flip angle and reception sensitivity mapping methods: simulation and comparison. Magnetic Resonance Imaging, 2011, 29, 717-722.	1.8	19
49	Electromagnetic method for sample-induced resistance calculation of magnetic resonance coils. International Journal of Biomedical Engineering and Technology, 2010, 4, 18.	0.2	3
50	Numerical Calculation of Peak-to-Average Specific Absorption Rate on Different Human Thorax Models for Magnetic Resonance Safety Considerations. Applied Magnetic Resonance, 2010, 38, 337-348.	1.2	21
51	A Novel Magnetic Resonance Phased-Array Coil Designed with FDTD Algorithm. Applied Magnetic Resonance, 2010, 39, 225-231.	1.2	8
52	Low-Field MR Coils: Comparison between Strip and Wire Conductors. Applied Magnetic Resonance, 2010, 39, 391-399.	1.2	31
53	An efficient method for electrical conductivity measurement in the RF range. Concepts in Magnetic Resonance Part B, 2010, 37B, 160-166.	0.7	6
54	Experimental approaches to cardiac imaging with hyperpolarized [1-13c]pyruvate: a feasibility study in rats with a 3T clincal scanner. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	8

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55	Cardiac metabolism with hyperpolarized [1-13c]pyruvate: a feasibility study in mini-pig with a large dose injection. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	7
56	Hyperpolarized MRS surface coil: Design and signalâ€toâ€noise ratio estimation. Medical Physics, 2010, 37, 5361-5369.	3.0	24
57	Neural correlates of human-robot handshaking. , 2010, , .		5
58	Biological Effects and Safety in Magnetic Resonance Imaging: A Review. International Journal of Environmental Research and Public Health, 2009, 6, 1778-1798.	2.6	183
59	Simulations of Magnetic Resonance Phased Array Coils Using FDTD Algorithm. IFMBE Proceedings, 2009, , 888-890.	0.3	1
60	Low field elliptical MR coil array designed by FDTD. Concepts in Magnetic Resonance Part B, 2008, 33B, 32-38.	0.7	15
61	Is the genotoxic effect of magnetic resonance negligible? Low persistence of micronucleus frequency in lymphocytes of individuals after cardiac scan. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 645, 39-43.	1.0	69
62	Sensing Glove for Brain Studies: Design and Assessment of Its Compatibility for fMRI With a Robust Test. IEEE/ASME Transactions on Mechatronics, 2008, 13, 345-354.	5.8	35
63	First prototype of a near infrared tomograph for mapping the myocardial oxygenation in small animal isolated hearts. , 2008, , .		2
64	Electrocutaneous Stimulation of Skin Mechanoreceptors for Tactile Studies with Functional Magnetic Resonance Imaging. , 2008, , 497-504.		1
65	Radiofrequency measurement of liquid sample dielectric properties for magnetic resonance applications. International Journal of Biomedical Engineering and Technology, 2007, 1, 158.	0.2	3
66	A theory for the estimation of SNR degradation caused by clock jitter in MRI systems. Concepts in Magnetic Resonance Part B, 2007, 31B, 60-64.	0.7	1
67	An electrodeless system for measurement of liquid sample dielectric properties in Radio Frequency band. , 2006, 2006, 4127-30.		2
68	Application of undersampling technique for the design of an NMR signals digital receiver. Concepts in Magnetic Resonance Part B, 2006, 29B, 107-114.	0.7	13
69	A Compatible Electrocutaneous Display for functional Magnetic Resonance Imaging application. , 2006, 2006, 1021-4.		4
70	A Compatible Electrocutaneous Display for functional Magnetic Resonance Imaging application. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
71	Study for a portable IR sensor to detect the blood temperature during coronary bypass implantation. Review of Scientific Instruments, 2005, 76, 084302.	1.3	4
72	Active mechatronic interface for haptic perception studies with functional magnetic resonance imaging: compatibility and design criteria. , 0, , .		10