Eugenio Mattei

List of Publications by Year
in descending order

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67 papers	927 citations	623188 14 h-index	500791 28 g-index
70 all docs	70 docs citations	70 times ranked	1416 citing authors

#	Article	IF	Citations
1	Complexity of MRI induced heating on metallic leads: Experimental measurements of 374 configurations. BioMedical Engineering OnLine, 2008, 7, 11.	1.3	148
2	Clinical Characteristics of Hospitalized Individuals Dying With COVID-19 by Age Group in Italy. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1796-1800.	1.7	138
3	Temperature and SAR measurement errors in the evaluation of metallic linear structures heating during MRI using fluoropticÂ® probes. Physics in Medicine and Biology, 2007, 52, 1633-1646.	1.6	61
4	In vitro investigation of pacemaker lead heating induced by magnetic resonance imaging: Role of implant geometry. Journal of Magnetic Resonance Imaging, 2008, 28, 879-886.	1.9	61
5	Impact of capped and uncapped abandoned leads on the heating of an MRâ€conditional pacemaker implant. Magnetic Resonance in Medicine, 2015, 73, 390-400.	1.9	46
6	Numerical Model for Estimating RF-Induced Heating on a Pacemaker Implant During MRI: Experimental Validation. IEEE Transactions on Biomedical Engineering, 2010, 57, 2045-2052.	2.5	41
7	Effect of Parasympathetic Stimulation on Brain Activity During Appraisal of Fearful Expressions. Neuropsychopharmacology, 2015, 40, 1649-1658.	2.8	37
8	P-wave Variability and Atrial Fibrillation. Scientific Reports, 2016, 6, 26799.	1.6	34
9	Evaluation of Thermal and Nonthermal Effects of UHF RFID Exposure on Biological Drugs. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1051-1057.	3.6	28
10	Role of the lead structure in MRIâ€induced heating: In vitro measurements on 30 commercial pacemaker/defibrillator leads. Magnetic Resonance in Medicine, 2012, 67, 925-935.	1.9	25
11	Sex differences in clinical phenotype and transitions of care among individuals dying of COVID-19 in Italy. Biology of Sex Differences, 2020, 11, 57.	1.8	25
12	A Study of the Interaction Between Implanted Pacemakers and the Radio-Frequency Field Produced by Magnetic Resonance Imaging Apparatus. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 35-42.	1.4	22
13	Nonrespiratory Complications and Obesity in Patients Dying with COVIDâ€19 in Italy. Obesity, 2021, 29, 20-23.	1.5	19
14	Fear processing is differentially affected by lateralized stimulation of carotid baroreceptors. Cortex, 2018, 99, 200-212.	1.1	17
15	Regulatory frameworks for mobile medical applications. Expert Review of Medical Devices, 2015, 12, 273-278.	1.4	14
16	Daily distribution of atrial arrhythmic episodes in sick sinus syndrome patients: implications for atrial arrhythmia monitoring. Europace, 2012, 14, 1117-1124.	0.7	13
17	Setups forin vitroassessment of RFID interference on pacemakers. Physics in Medicine and Biology, 2013, 58, 5301-5316.	1.6	13
18	Effect of high-pass filtering on ECG signal on the analysis of patients prone to atrial fibrillation. Annali Dell'Istituto Superiore Di Sanita, 2009, 45, 427-31.	0.2	13

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19	MRI induced heating of pacemaker leads: effect of temperature probe positioning and pacemaker placement on lead tip heating and local SAR. , 2006, 2006, 1889-92.		12
20	Seasonal trends in atrial fibrillation episodes and physical activity collected daily with a remote monitoring system for cardiac implantable electronic devices. International Journal of Cardiology, 2017, 234, 48-52.	0.8	11
21	On the resolution of ECG acquisition systems for the reliable analysis of the P-wave. Physiological Measurement, 2012, 33, N11-N17.	1.2	10
22	Provocative Testing for the Assessment of the Electromagnetic Interference of RFID and NFC Readers on Implantable Pacemaker. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 314-322.	1.4	10
23	Interference between mobile phones and pacemakers: a look inside. Annali Dell'Istituto Superiore Di Sanita, 2007, 43, 254-9.	0.2	9
24	Electromagnetic Immunity of Implantable Pacemakers Exposed to Wi-Fi Devices. Health Physics, 2014, 107, 318-325.	0.3	8
25	Brainâ€“Heart Pathways to Blood Pressure-Related Hypoalgesia. Psychosomatic Medicine, 2018, 80, 845-852.	1.3	8
26	RFID in healthcare environment: electromagnetic compatibility regulatory issues. , 2010, 2010, 352-5.		7
27	ELECTROMAGNETIC COMPATIBILITY OF WLAN ADAPTERS WITH LIFE-SUPPORTING MEDICAL DEVICES. Health Physics, 2011, 100, 497-501.	0.3	7
28	Pacemaker and ICD oversensing induced by movements near the MRI scanner bore. Medical Physics, 2016, 43, 6621-6631.	1.6	7
29	High dielectric material in MRI: Numerical assessment of the reduction of the induced local power on implanted cardiac leads. , 2016, 2016, 2361-2364.		7
30	A novel, user-friendly step counter for home telemonitoring of physical activity. Journal of Telemedicine and Telecare, 2008, 14, 345-348.	1.4	6
31	Electromagnetic interference to infusion pumps. Update2008 from GSM mobile phones. , 2008, 2008, 4503-6.		6
32	An optically coupled sensor for the measurement of currents induced by MRI gradient fields into endocardial leads. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 291-303.	1.1	5
33	A SMS-Based Platform for Cardiovascular Tele-monitoring. IFMBE Proceedings, 2009, , 295-298.	0.2	5
34	Radiofrequency identification and medical devices: the regulatory framework on electromagnetic compatibility. Part II: active implantable medical devices. Expert Review of Medical Devices, 2012, 9, 289-297.	1.4	4
35	Currents induced by fast movements inside the MRI room may cause inhibition in an implanted pacemaker. , 2014, 2014, 890-3.		4
36	Wrong detection of ventricular fibrillation in an implantable cardioverter defibrillator caused by the movement near the MRI scanner bore. , 2015, 2015, 7200-3.		4

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37	Workers with Active Implantable Medical Devices Exposed to EMF: In Vitro Test for the Risk Assessment. Environments - MDPI, 2019, 6, 119.	1.5	4
38	iPhone 12 MagSafe technology and cardiac implantable devices: Assessment of the actual risk. PACE - Pacing and Clinical Electrophysiology, 2022, , .	0.5	4
39	Simulation of monitoring strategies for atrial arrhythmia detection. Annali Dell'Istituto Superiore Di Sanita, 2013, 49, 176-82.	0.2	4
40	SMS-based platform for cardiovascular tele-monitoring. , 2008, , .		3
41	Radiofrequency identification and medical devices: the regulatory framework on electromagnetic compatibility. Part I: medical devices. Expert Review of Medical Devices, 2012, 9, 283-288.	1.4	3
42	An optically coupled system for quantitative monitoring of MRI gradient currents induced into endocardial leads. , 2013, 2013, 2400-3.		3
43	Workers with Cardiac AIMD Exposed to EMF: Methods and Case Studies for Risk Analysis in the Framework of the European Regulations. International Journal of Environmental Research and Public Health, 2021, 18, 9709.	1.2	3
44	Electrical Stun Gun and Modern Implantable Cardiac Stimulators: Update for a New Stun Gun Model. Health Physics, 2021, 120, 344-349.	0.3	3
45	Beat-to-beat variability of P-wave in patients suffering from atrial fibrillation. , 2016, 2016, 770-773.		2
46	Electrical Stun Gun and Modern Implantable Cardiac Stimulators. Health Physics, 2019, 116, 18-26.	0.3	2
47	A combined computational and experimental approach to assess the transfer function of real pacemaker leads for MR radiofrequency-induced heating. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 619-630.	1.1	2
48	Clinical Validation of an Algorithm for Automatic Detection of Atrial Fibrillation from Single Lead ECG. IFMBE Proceedings, 2010, , 168-171.	0.2	2
49	Morphological analysis of P-wave in patients prone to atrial fibrillation. , 2006, 2006, 4020-3.		1
50	SAR and temperature increase in a thorax model with implanted pace-maker under magnetic resonance imaging. , 2008, , .		1
51	Evaluation of the Electromagnetic Compatibility of WiFi Technology with Life-Supporting Medical Devices. IFMBE Proceedings, 2009, , 87-88.	0.2	1
52	P-wave characteristics after electrical external cardioversion: Predictive indexes of relapse. , 2010, 2010, 3442-5.		1
53	Simulation of daily ECG monitoring strategies for atrial fibrillation patients. , 2010, , .		1
54	A telemonitoring platform for the investigation of blood pressure profiles in pacemaker patients. , 2016, 2016, 211-214.		1

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55	System Biology Approach: Gene Network Analysis for Muscular Dystrophy. Methods in Molecular Biology, 2018, 1687, 75-89.	0.4	1
56	Development of a new arbitrary waveform defibrillator for cardiac electrophysiology research. , 2008, 2008, 597-600.		0
57	In-vitro investigation of very long defibrillation shocks: Design and testing of a capacitor-free defibrillator. , 2008, , .		0
58	Radiofrequency dosimetry in subjects implanted with metallic straight wires: A numerical study. , 2008, 2008, 4387-90.		0
59	Modeling heart beat dynamics and fMRI signals during carotid stimulation by neck suction. , 2014, 2014, 6647-50.		0
60	Functional connectivity during autonomic stimulation estimated using spectral coherence of fMRI signals. , 2015, , .		0
61	Automatic Quantification of P-Wave Morphological Features. , 2008, , 134-140.		0
62	MRI Induced Heating on Pacemaker Leads. , 2008, , 950-957.		0
63	A Numerical Method for MRI Induced Heating Evaluation in Subjects Implanted with Metallic Wires. IFMBE Proceedings, 2009, , 243-244.	0.2	0
64	Time-Domain Analysis of the ECG P-Wave after External Cardioversion for Persistent Atrial Fibrillation. IFMBE Proceedings, 2009, , 271-272.	0.2	0
65	Methodological Issues on the Estimation of the MRI-Induced SAR in Tissues in Contact with Implanted Thin Metallic Structures. IFMBE Proceedings, 2009, , 662-665.	0.2	0
66	MRI interactions with medical devices. , 2018, , 70-76.		0
67	Estimate and reporting of longevity for cardiac implantable electronic devices: a proposal for standardized criteria. Expert Review of Medical Devices, 2021, 18, 1203-1208.	1.4	0