

Gregory M Noetscher

List of Publications by Year in descending order

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46
papers

517
citations

1163117

8
h-index

996975

15
g-index

56
all docs

56
docs citations

56
times ranked

436
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual Human Models for Electromagnetic Studies and Their Applications. IEEE Reviews in Biomedical Engineering, 2017, 10, 95-121.	18.0	89
2	A Quasi-Static Boundary Element Approach With Fast Multipole Acceleration for High-Resolution Bioelectromagnetic Models. IEEE Transactions on Biomedical Engineering, 2018, 65, 2675-2683.	4.2	67
3	Comparison of Cephalic and Extracranial Montages for Transcranial Direct Current Stimulation—A Numerical Study. IEEE Transactions on Biomedical Engineering, 2014, 61, 2488-2498.	4.2	56
4	Comparative performance of the finite element method and the boundary element fast multipole method for problems mimicking transcranial magnetic stimulation (TMS). Journal of Neural Engineering, 2019, 16, 024001.	3.5	31
5	Continuous Wave Simulations on the Propagation of Electromagnetic Fields Through the Human Head. IEEE Transactions on Biomedical Engineering, 2014, 61, 1676-1683.	4.2	22
6	New VHP-Female v. 2.0 full-body computational phantom and its performance metrics using FEM simulator ANSYS HFSS. , 2015, 2015, 3237-41.		21
7	Boundary Element Fast Multipole Method for Enhanced Modeling of Neurophysiological Recordings. IEEE Transactions on Biomedical Engineering, 2021, 68, 308-318.	4.2	21
8	Concept of a Radiofrequency Device for Osteopenia/Osteoporosis Screening. Scientific Reports, 2020, 10, 3540.	3.3	20
9	Multi-purpose VHP-female version 3.0 cross-platform computational human model. , 2016, , .		16
10	VHP-Female full-body human CAD model for cross-platform FEM simulations — Recent development and validations. , 2016, 2016, 2232-2235.		15
11	Comparative analysis of different hip implants within a realistic human model located inside a 1.5T MRI whole body RF coil. , 2015, 2015, 7913-6.		11
12	Computational human model VHP-FEMALE derived from datasets of the national library of medicine. , 2016, 2016, 3350-3353.		11
13	Boundary element fast multipole method for modeling electrical brain stimulation with voltage and current electrodes. Journal of Neural Engineering, 2021, 18, 0460d4.	3.5	11
14	Visible Human Project® female surface based computational phantom (Nelly) for radio-frequency safety evaluation in MRI coils. PLoS ONE, 2021, 16, e0260922.	2.5	11
15	Directional in-quadrature orthogonal-coil antenna and an array thereof for localization within a human body in a Fresnel region. , 2012, , .		9
16	A Simple Absolute Estimate of Peak Eddy Currents Induced by Transcranial Magnetic Stimulation Using the GR Model. IEEE Transactions on Magnetics, 2013, 49, 4999-5003.	2.1	8
17	Collection of CAD human head models for electromagnetic simulations and their applications. Biomedical Physics and Engineering Express, 2019, 5, 067005.	1.2	8
18	Modeling Accuracy and Features of Body-Area Networks with Out-of-Body Antennas at 402 MHz. IEEE Antennas and Propagation Magazine, 2011, 53, 118-143.	1.4	7

#	ARTICLE	IF	CITATIONS
19	Detecting in vivo changes of electrical properties of Cerebral Spinal Fluid using microwave signals from small coil antennas - numerical simulation. , 2012, , .		7
20	Near-Body/Cartesian Off-Body Simulations for C-17 and Extraction Parachute. , 2020, , .		7
21	Application of a Neural Network Classifier to Radiofrequency-Based Osteopenia/Osteoporosis Screening. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-7.	3.7	6
22	Experimental Methods Using Photogrammetric Techniques for Parachute Canopy Shape Measurements. , 2007, , .		5
23	Development of 2,000-10,000lb Improved Container Delivery System. , 2009, , .		5
24	Flight Test Results of Recent Advances in Precision Airdrop Guidance, Navigation, and Control Logic. , 2015, , .		4
25	Accuracy of point source models with coincident phase centers in a cubic FDTD grid for arbitrary source orientation. , 2012, , .		3
26	VHP-Female CAD human model family for antenna modeling. , 2016, , .		3
27	Novel on-body microwave antenna array testbed for highly-sensitive measurements of wrist bone signature. , 2017, , .		3
28	A Simulation Platform to Study the Human Body Communication Channel. , 2019, 2019, 4040-4043.		3
29	Foreword by the Editor [EM Programmer's Notebook]. IEEE Antennas and Propagation Magazine, 2011, 53, 118-118.	1.4	2
30	Virtual Humans for antenna/implant modeling. , 2017, , .		2
31	Jumper-Inspired Guidance Logic for Precision Guided Airdrop Systems. , 2019, , .		2
32	Modeling and Experimental Efforts towards Robust Low-Cost Cruciform Canopy Control. , 2019, , .		2
33	Continuous wave simulations on the propagation of electromagnetic fields through the human head. , 2013, , .		1
34	Comparison of cephalic and extracephalic montages for Transcranial Direct Current Stimulation - A numerical study. , 2013, , .		1
35	Longitudinal Control for Ultra Light Weight Guided Parachute Systems. , 2015, , .		1
36	CAD-Based Virtual Humans : Design and Safety Assessment of MRI Coils. IEEE Pulse, 2017, 8, 62-65.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Comparative analysis of different versions of a human model located inside a 1.5T MRI whole body RF coil. , 2017, 2017, 1477-1480.		1
38	Dynamic Simulation and Analysis of Personnel Airborne Exits. , 2020, , .		1
39	Optimization of Extraction Line Distance for Ringslot Parachute Extraction of Heavy Cargo from C-17. , 2021, , .		1
40	A Paratrooper Model Sensitivity Analysis for Personnel Airdrop. , 2021, , .		1
41	Design and Analysis of a Whole-Body Noncontact Electromagnetic Subthreshold Stimulation Device with Field Modulation Targeting Nonspecific Neuropathic Pain. , 2019, , 85-123.		1
42	Theory and simulation of an orthogonal-coil directional beam antenna for biomedical applications. , 2013, , .		0
43	Continuous wave simulations on the propagation of electromagnetic fields through the human head. , 2013, , .		0
44	Beacon Based Autonomous Airdrop Systems: Back to the Future. , 2015, , .		0
45	Radio Frequency Propagation Close to the Human Ear and Accurate Ear Canal Models. , 2019, , 357-365.		0
46	Multiscale Modeling of EEG/MEG Response of a Compact Cluster of Tightly Spaced Pyramidal Neocortical Neurons. , 2021, , 195-211.		0