

# Gregory M Noetscher

## List of Publications by Year in descending order

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46  
papers

517  
citations

1163117

8  
h-index

996975

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g-index

56  
all docs

56  
docs citations

56  
times ranked

436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boundary Element Fast Multipole Method for Enhanced Modeling of Neurophysiological Recordings. IEEE Transactions on Biomedical Engineering, 2021, 68, 308-318.	4.2	21
2	Optimization of Extraction Line Distance for Ringslot Parachute Extraction of Heavy Cargo from C-17. , 2021, , .		1
3	A Paratrooper Model Sensitivity Analysis for Personnel Airdrop. , 2021, , .		1
4	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
5	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
6	Multiscale Modeling of EEG/MEG Response of a Compact Cluster of Tightly Spaced Pyramidal Neocortical Neurons. , 2021, , 195-211.		0
7	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
8	Dynamic Simulation and Analysis of Personnel Airborne Exits. , 2020, , .		1
9	Near-Body/Cartesian Off-Body Simulations for C-17 and Extraction Parachute. , 2020, , .		7
10	Concept of a Radiofrequency Device for Osteopenia/Osteoporosis Screening. Scientific Reports, 2020, 10, 3540.	3.3	20
11	Collection of CAD human head models for electromagnetic simulations and their applications. Biomedical Physics and Engineering Express, 2019, 5, 067005.	1.2	8
12	Jumper-Inspired Guidance Logic for Precision Guided Airdrop Systems. , 2019, , .		2
13	Modeling and Experimental Efforts towards Robust Low-Cost Cruciform Canopy Control. , 2019, , .		2
14	A Simulation Platform to Study the Human Body Communication Channel. , 2019, 2019, 4040-4043.		3
15	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
16	Design and Analysis of a Whole-Body Noncontact Electromagnetic Subthreshold Stimulation Device with Field Modulation Targeting Nonspecific Neuropathic Pain. , 2019, , 85-123.		1
17	Radio Frequency Propagation Close to the Human Ear and Accurate Ear Canal Models. , 2019, , 357-365.		0
18	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

#	ARTICLE	IF	CITATIONS
19	CAD-Based Virtual Humans : Design and Safety Assessment of MRI Coils. IEEE Pulse, 2017, 8, 62-65.	0.3	1
20	Virtual Human Models for Electromagnetic Studies and Their Applications. IEEE Reviews in Biomedical Engineering, 2017, 10, 95-121.	18.0	89
21	Comparative analysis of different versions of a human model located inside a 1.5T MRI whole body RF coil. , 2017, 2017, 1477-1480.		1
22	Virtual Humans for antenna/implant modeling. , 2017, , .		2
23	Novel on-body microwave antenna array testbed for highly-sensitive measurements of wrist bone signature. , 2017, , .		3
24	Multi-purpose VHP-female version 3.0 cross-platform computational human model. , 2016, , .		16
25	Computational human model VHP-FEMALE derived from datasets of the national library of medicine. , 2016, 2016, 3350-3353.		11
26	VHP-Female full-body human CAD model for cross-platform FEM simulations â€” Recent development and validations. , 2016, 2016, 2232-2235.		15
27	VHP-Female CAD human model family for antenna modeling. , 2016, , .		3
28	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
29	New VHP-Female v. 2.0 full-body computational phantom and its performance metrics using FEM simulator ANSYS HFSS. , 2015, 2015, 3237-41.		21
30	Longitudinal Control for Ultra Light Weight Guided Parachute Systems. , 2015, , .		1
31	Beacon Based Autonomous Airdrop Systems: Back to the Future. , 2015, , .		0
32	Flight Test Results of Recent Advances in Precision Airdrop Guidance, Navigation, and Control Logic. , 2015, , .		4
33	Comparison of Cephalic and Extracranial Montages for Transcranial Direct Current Stimulationâ€”A Numerical Study. IEEE Transactions on Biomedical Engineering, 2014, 61, 2488-2498.	4.2	56
34	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
35	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
36	Continuous wave simulations on the propagation of electromagnetic fields through the human head. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	Theory and simulation of an orthogonal-coil directional beam antenna for biomedical applications. , 2013, , .		0
38	Continuous wave simulations on the propagation of electromagnetic fields through the human head. , 2013, , .		0
39	Comparison of cephalic and extracephalic montages for Transcranial Direct Current Stimulation - A numerical study. , 2013, , .		1
40	Accuracy of point source models with coincident phase centers in a cubic FDTD grid for arbitrary source orientation. , 2012, , .		3
41	Directional in-quadrature orthogonal-coil antenna and an array thereof for localization within a human body in a Fresnel region. , 2012, , .		9
42	Detecting in vivo changes of electrical properties of Cerebral Spinal Fluid using microwave signals from small coil antennas - numerical simulation. , 2012, , .		7
43	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
44	Foreword by the Editor [EM Programmer's Notebook]. IEEE Antennas and Propagation Magazine, 2011, 53, 118-118.	1.4	2
45	Development of 2,000-10,000lb Improved Container Delivery System. , 2009, , .		5
46	Experimental Methods Using Photogrammetric Techniques for Parachute Canopy Shape Measurements. , 2007, , .		5