Sundeep Singh

List of Publications by Year
in descending order

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36	386	932766 10	794141 19
papers	citations	h-index	g-index

37	37	37	203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal ablation of biological tissues in disease treatment: A review of computational models and future directions. Electromagnetic Biology and Medicine, 2020, 39, 49-88.	0.7	63
2	Temperature-controlled radiofrequency ablation of different tissues using two-compartment models. International Journal of Hyperthermia, 2017, 33, 122-134.	1.1	52
3	Effect of different breast density compositions on thermal damage of breast tumor during radiofrequency ablation. Applied Thermal Engineering, 2017, 125, 443-451.	3.0	30
4	Thermal analysis of induced damage to the healthy cell during RFA of breast tumor. Journal of Thermal Biology, 2016, 58, 80-90.	1.1	29
5	Parametric sensitivity analysis of critical factors affecting the thermal damage during RFA of breast tumor. International Journal of Thermal Sciences, 2018, 124, 366-374.	2.6	25
6	Sensitivity analysis of critical parameters affecting the efficacy of microwave ablation using Taguchi method. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21581.	0.8	24
7	Numerical study to establish relationship between coagulation volume and target tip temperature during temperature-controlled radiofrequency ablation. Electromagnetic Biology and Medicine, 2018, 37, 13-22.	0.7	21
8	Coupled thermo-electro-mechanical models for thermal ablation of biological tissues and heat relaxation time effects. Physics in Medicine and Biology, 2019, 64, 245008.	1.6	19
9	Biological cells and coupled electro-mechanical effects: The role of organelles, microtubules, and nonlocal contributions. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103859.	1.5	18
10	Domain Heterogeneity in Radiofrequency Therapies for Pain Relief: A Computational Study with Coupled Models. Bioengineering, 2020, 7, 35.	1.6	15
11	Numerical investigation of convective cooling in minimizing skin burns during radiofrequency ablation of breast tumor. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	9
12	Quantification of Thermal Injury to the Healthy Tissue Due to Imperfect Electrode Placements During Radiofrequency Ablation of Breast Tumor. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2018, 1, .	0.3	8
13	Three-Phase-Lag Bio-Heat Transfer Model of Cardiac Ablation. Fluids, 2022, 7, 180.	0.8	8
14	A Neuron-Glial Model of Exosomal Release in the Onset and Progression of Alzheimer's Disease. Frontiers in Computational Neuroscience, 2021, 15, 653097.	1.2	7
15	Radiofrequency Ablation for Treating Chronic Pain of Bones: Effects of Nerve Locations. Lecture Notes in Computer Science, 2019, , 418-429.	1.0	6
16	Mathematical and computational models of RNA nanoclusters and their applications in data-driven environments. Molecular Simulation, 2020, 46, 1094-1115.	0.9	6
17	Fluidâ€“Structure Interaction and Non-Fourier Effects in Coupled Electro-Thermo-Mechanical Models for Cardiac Ablation. Fluids, 2021, 6, 294.	0.8	6
18	Computational Modeling of Cardiac Ablation Incorporating Electrothermomechanical Interactions. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2020, 3, .	0.3	6

#	Article	IF	Citations
19	THERMAL CHARACTERIZATION USING FOURIER AND NON-FOURIER CONDUCTION DURING RADIOFREQUENCY ABLATION OF BREAST TUMOR. Multiphase Science and Technology, 2018, 30, 207-219.	0.2	5
20	Atomistic to continuum model for studying mechanical properties of RNA nanotubes. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 396-407.	0.9	5
21	Computational Analysis of Pulsed Radiofrequency Ablation in Treating Chronic Pain. Lecture Notes in Computer Science, 2019, , 436-450.	1.0	4
22	Analysis of Photosynthetic Systems and Their Applications with Mathematical and Computational Models. Applied Sciences (Switzerland), 2020, 10, 6821.	1.3	4
23	Coupled Electro-mechanical Behavior of Microtubules. Lecture Notes in Computer Science, 2020, , 75-86.	1.0	3
24	Coupled Multiphysics Modelling of Sensors for Chemical, Biomedical, and Environmental Applications with Focus on Smart Materials and Low-Dimensional Nanostructures. Chemosensors, 2022, 10, 157.	1.8	3
25	CFD based analysis of 3D printed nasopharyngeal swabs for COVID-19 diagnostics. Computer Methods and Programs in Biomedicine, 2022, 223, 106977.	2.6	3
26	An in Vitro Phantom Study to Quantify the Efficacy of Multi-tine Electrode in Attaining Large Size Coagulation Volume During RFA. IFMBE Proceedings, 2019, , 663-668.	0.2	1
27	Analysis of Cortical Spreading Depression in Brain with Multiscale Mathematical Models. Springer Proceedings in Mathematics and Statistics, 2021, , 197-207.	0.1	1
28	Auxeticity in biosystems: an exemplification of its effects on the mechanobiology of heterogeneous living cells. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 521-535.	0.9	1
29	Computational Model of Radiofrequency Ablation of Cardiac Tissues Incorporating Thermo-Electro-Mechanical Interactions. , 2020, , .		1
30	Mathematical Modeling of Coupled Electro-thermal Response of Nerve Tissues Subjected to Radiofrequency Fields. Springer Proceedings in Mathematics and Statistics, 2021, , 621-632.	0.1	0
31	THERMAL CHARACTERIZATION USING FOURIER AND NON-FOURIER CONDUCTION DURING RADIOFREQUENCY ABLATION OF BREAST TUMOR. , 2017, , .		0
32	THERMAL CHARACTERIZATION USING FOURIER AND NON-FOURIER CONDUCTION DURING RADIOFREQUENCY ABLATION OF BREAST TUMOR. , 2017, , .		0
33	EFFECT OF HETEROGENEOUS BLOOD PERFUSION DURING RFA OF BREAST TUMOR. , 2018, , .		0
34	A NUMERICAL STUDY ON NON-INVASIVE RF-ASSISTED HYPERTHERMIA OF DEEP-SEATED TUMOR. , 2018, , .		0
35	Comparison of Ablation Volume Produced With Multi-Tine Dry Type and Wet Type Electrodes During Radio Frequency Ablation: An In Vitro Study. , 2018, , .		0
36	Effects of Heterogeneous Surroundings on the Efficacy of Continuous Radiofrequency for Pain Relief. , 2019, , .		0