

# Sundeep Singh

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29  
papers

249  
citations

9  
h-index

15  
g-index

37  
ext. papers

311  
ext. citations

2.2  
avg, IF

4.58  
L-index

#	Paper	IF	Citations
29	Temperature-controlled radiofrequency ablation of different tissues using two-compartment models. <i>International Journal of Hyperthermia</i> , <b>2017</b> , 33, 122-134	3.7	39
28	Thermal ablation of biological tissues in disease treatment: A review of computational models and future directions. <i>Electromagnetic Biology and Medicine</i> , <b>2020</b> , 39, 49-88	2.2	28
27	Effect of different breast density compositions on thermal damage of breast tumor during radiofrequency ablation. <i>Applied Thermal Engineering</i> , <b>2017</b> , 125, 443-451	5.8	21
26	Thermal analysis of induced damage to the healthy cell during RFA of breast tumor. <i>Journal of Thermal Biology</i> , <b>2016</b> , 58, 80-90	2.9	21
25	Numerical study to establish relationship between coagulation volume and target tip temperature during temperature-controlled radiofrequency ablation. <i>Electromagnetic Biology and Medicine</i> , <b>2018</b> , 37, 13-22	2.2	17
24	Parametric sensitivity analysis of critical factors affecting the thermal damage during RFA of breast tumor. <i>International Journal of Thermal Sciences</i> , <b>2018</b> , 124, 366-374	4.1	17
23	Sensitivity analysis of critical parameters affecting the efficacy of microwave ablation using Taguchi method. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2019</b> , 29, e21581	1.5	15
22	Coupled thermo-electro-mechanical models for thermal ablation of biological tissues and heat relaxation time effects. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 245008	3.8	14
21	Biological cells and coupled electro-mechanical effects: The role of organelles, microtubules, and nonlocal contributions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 110, 103859	4.1	9
20	Domain Heterogeneity in Radiofrequency Therapies for Pain Relief: A Computational Study with Coupled Models. <i>Bioengineering</i> , <b>2020</b> , 7,	5.3	9
19	Quantification of Thermal Injury to the Healthy Tissue Due to Imperfect Electrode Placements During Radiofrequency Ablation of Breast Tumor. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , <b>2018</b> , 1,	1	7
18	Mathematical and computational models of RNA nanoclusters and their applications in data-driven environments. <i>Molecular Simulation</i> , <b>2020</b> , 46, 1094-1115	2	6
17	Atomistic to continuum model for studying mechanical properties of RNA nanotubes. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2020</b> , 23, 396-407	2.1	5
16	Computational Modeling of Cardiac Ablation Incorporating Electrothermomechanical Interactions. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , <b>2020</b> , 3,	1	5
15	THERMAL CHARACTERIZATION USING FOURIER AND NON-FOURIER CONDUCTION DURING RADIOFREQUENCY ABLATION OF BREAST TUMOR. <i>Multiphase Science and Technology</i> , <b>2018</b> , 30, 207-219	1	5
14	Numerical investigation of convective cooling in minimizing skin burns during radiofrequency ablation of breast tumor. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2018</b> , 43, 1	1	5
13	A Neuron-Glial Model of Exosomal Release in the Onset and Progression of Alzheimer's Disease. <i>Frontiers in Computational Neuroscience</i> , <b>2021</b> , 15, 653097	3.5	5

12	Fluid-Structure Interaction and Non-Fourier Effects in Coupled Electro-Thermo-Mechanical Models for Cardiac Ablation. <i>Fluids</i> , <b>2021</b> , 6, 294	1.6	4
11	Radiofrequency Ablation for Treating Chronic Pain of Bones: Effects of Nerve Locations. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 418-429	0.9	3
10	Computational Analysis of Pulsed Radiofrequency Ablation in Treating Chronic Pain. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 436-450	0.9	3
9	Coupled Electro-mechanical Behavior of Microtubules. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 75-86	0.9	3
8	Microtubule Biomechanics and the Effect of Degradation of Elastic Moduli. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 348-358	0.9	3
7	Analysis of Photosynthetic Systems and Their Applications with Mathematical and Computational Models. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6821	2.6	1
6	Analysis of Cortical Spreading Depression in Brain with Multiscale Mathematical Models. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2021</b> , 197-207	0.2	1
5	Auxeticity in biosystems: an exemplification of its effects on the mechanobiology of heterogeneous living cells. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2021</b> , 1-15	2.1	1
4	Coupled Multiphysics Modelling of Sensors for Chemical, Biomedical, and Environmental Applications with Focus on Smart Materials and Low-Dimensional Nanostructures. <i>Chemosensors</i> , <b>2022</b> , 10, 157	4	1
3	Three-Phase-Lag Bio-Heat Transfer Model of Cardiac Ablation. <i>Fluids</i> , <b>2022</b> , 7, 180	1.6	0
2	An in Vitro Phantom Study to Quantify the Efficacy of Multi-tine Electrode in Attaining Large Size Coagulation Volume During RFA. <i>IFMBE Proceedings</i> , <b>2019</b> , 663-668	0.2	
1	Mathematical Modeling of Coupled Electro-thermal Response of Nerve Tissues Subjected to Radiofrequency Fields. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2021</b> , 621-632	0.2	