

Govindarajan Srimathveeravalli

List of Publications by Year in descending order

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55
papers

1,408
citations

361413

20
h-index

361022

35
g-index

56
all docs

56
docs citations

56
times ranked

1759
citing authors

#	ARTICLE	IF	CITATIONS
1	Ablation Zone Involution of Liver Tumors Is Faster in Patients Treated with Irreversible Electroporation Than Microwave Ablation. <i>Medicina (Lithuania)</i> , 2021, 57, 877.	2.0	4
2	Lung Ablation with Irreversible Electroporation Promotes Immune Cell Infiltration by Sparing Extracellular Matrix Proteins and Vasculature: Implications for Immunotherapy. <i>Bioelectricity</i> , 2021, 3, 204-214.	1.1	9
3	Peri-tumoral Metallic Implants Reduce the Efficacy of Irreversible Electroporation for the Ablation of Colorectal Liver Metastases. <i>CardioVascular and Interventional Radiology</i> , 2020, 43, 84-93.	2.0	24
4	A new intrasurgical technique to safely and reproducibly induce partial unilateral urinary obstruction and renal scarring in a Rat Model. <i>International Urology and Nephrology</i> , 2020, 52, 1209-1218.	1.4	1
5	Electroporation-induced changes in tumor vasculature and microenvironment can promote the delivery and increase the efficacy of sorafenib nanoparticles. <i>Bioelectrochemistry</i> , 2019, 130, 107328.	4.6	10
6	Percutaneous image-guided ablation: From techniques to treatments. <i>Presse Medicale</i> , 2019, 48, e219-e231.	1.9	9
7	Macrophage-secreted TGF- β ¹ contributes to fibroblast activation and ureteral stricture after ablation injury. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F52-F64.	2.7	70
8	Temporal evaluation of the microwave ablation zone and comparison of CT and gross sizes during the first month post-ablation in swine lung. <i>Diagnostic and Interventional Imaging</i> , 2019, 100, 279-285.	3.2	12
9	High power microwave ablation of normal swine lung: impact of duration of energy delivery on adverse event and heat sink effects. <i>International Journal of Hyperthermia</i> , 2018, 34, 1186-1193.	2.5	14
10	Pirfenidone inhibits cryoablation induced local macrophage infiltration along with its associated TGF β 1 expression and serum cytokine level in a mouse model. <i>Cryobiology</i> , 2018, 82, 106-111.	0.7	11
11	Catheter-based endobronchial electroporation is feasible for the focal treatment of peribronchial tumors. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 2150-2159.e3.	0.8	13
12	The Effect of Irreversible Electroporation on Blood Vessels, Bile Ducts, Urinary Tract, Intestines, and Nerves. , 2018, , 81-94.		4
13	Reversible Electroporation-Mediated Liposomal Doxorubicin Delivery to Tumors Can Be Monitored With ⁸⁹ Zr-Labeled Reporter Nanoparticles. <i>Molecular Imaging</i> , 2018, 17, 153601211774972.	1.4	21
14	Transmural ablation of the normal porcine common bile duct with catheter-directed irreversible electroporation is feasible and does not affect duct patency. <i>Gastrointestinal Endoscopy</i> , 2018, 87, 300.e1-300.e6.	1.0	20
15	Development of a Searchable Database of Cryoablation Simulations for Use in Treatment Planning. <i>CardioVascular and Interventional Radiology</i> , 2017, 40, 761-768.	2.0	12
16	Changes in peripheral blood T-cell balance after percutaneous tumor ablation. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2017, 26, 331-337.	1.2	39
17	A Comparative Study of Ablation Boundary Sharpness After Percutaneous Radiofrequency, Cryo-, Microwave, and Irreversible Electroporation Ablation in Normal Swine Liver and Kidneys. <i>CardioVascular and Interventional Radiology</i> , 2017, 40, 1600-1608.	2.0	30
18	Normal Porcine Ureter Retains Lumen Wall Integrity but Not Patency Following Catheter-Directed Irreversible Electroporation: Imaging and Histologic Assessment over 28 Days. <i>Journal of Vascular and Interventional Radiology</i> , 2017, 28, 913-919.e1.	0.5	19

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19	Medical Imaging of Electroporation. , 2017, , 761-776.		0
20	Irreversible electroporation and thermal ablation of tumors in the liver, lung, kidney and bone: What are the differences?. Diagnostic and Interventional Imaging, 2017, 98, 609-617.	3.2	69
21	If You Build It, They Will Come: How to Establish an Academic Innovation Enterprise. Techniques in Vascular and Interventional Radiology, 2017, 20, 121-126.	1.0	3
22	Contrast enhanced ultrasound imaging can predict vascular-targeted photodynamic therapy induced tumor necrosis in small animals. Photodiagnosis and Photodynamic Therapy, 2017, 20, 165-168.	2.6	4
23	Pilot Study to Assess Safety and Clinical Outcomes of Irreversible Electroporation for Partial Gland Ablation in Men with Prostate Cancer. Journal of Urology, 2016, 196, 883-890.	0.4	54
24	MRI-guided focused ultrasound ablation of lumbar medial branch nerve: Feasibility and safety study in a swine model. International Journal of Hyperthermia, 2016, 32, 786-794.	2.5	18
25	Treatment Effects of WST11 Vascular Targeted Photodynamic Therapy for Urothelial Cell Carcinoma in Swine. Journal of Urology, 2016, 196, 236-243.	0.4	18
26	Peripheral Blood Regulatory T-Cell and Type 1 Helper T-Cell Population Decrease after Hepatic Artery Embolization. Journal of Vascular and Interventional Radiology, 2016, 27, 1561-1568.	0.5	23
27	Comparison of ablation defect on MR imaging with computer simulation estimated treatment zone following irreversible electroporation of patient prostate. SpringerPlus, 2016, 5, 219.	1.2	12
28	Nonthermal Ablation by Using Intravascular Oxygen Radical Generation with WST11: Dynamic Tissue Effects and Implications for Focal Therapy. Radiology, 2016, 281, 109-118.	7.3	23
29	Feasibility of a Modified Biopsy Needle for Irreversible Electroporation Ablation and Periprocedural Tissue Sampling. Technology in Cancer Research and Treatment, 2016, 15, 749-758.	1.9	3
30	Medical Imaging of Electroporation. , 2016, , 1-16.		0
31	Comparison of CT Fluoroscopy-Guided Manual and CT-Guided Robotic Positioning System for In Vivo Needle Placements in Swine Liver. CardioVascular and Interventional Radiology, 2015, 38, 1252-1260.	2.0	20
32	Pleural Puncture that Excludes the Ablation Zone Decreases the Risk of Pneumothorax after Percutaneous Microwave Ablation in Porcine Lung. Journal of Vascular and Interventional Radiology, 2015, 26, 1052-1058.	0.5	14
33	Feasibility of intermittent pneumatic compression for venous thromboembolism prophylaxis during magnetic resonance imaging-guided interventions. European Journal of Radiology, 2015, 84, 668-670.	2.6	0
34	Feasibility of Catheter-Directed Intraluminal Irreversible Electroporation of Porcine Ureter and Acute Outcomes in Response to Increasing Energy Delivery. Journal of Vascular and Interventional Radiology, 2015, 26, 1059-1066.	0.5	28
35	Feasibility Study on MR-Guided High-Intensity Focused Ultrasound Ablation of Sciatic Nerve in a Swine Model: Preliminary Results. CardioVascular and Interventional Radiology, 2015, 38, 985-992.	2.0	7
36	Planning Irreversible Electroporation in the Porcine Kidney: Are Numerical Simulations Reliable for Predicting Empiric Ablation Outcomes?. CardioVascular and Interventional Radiology, 2015, 38, 182-190.	2.0	22

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37	The State of Irreversible Electroporation in Interventional Oncology. <i>Seminars in Interventional Radiology</i> , 2014, 31, 111-117.	0.8	51
38	<scp>MRI</scp>â€safe robot for targeted transrectal prostate biopsy: animal experiments. <i>BJU International</i> , 2014, 113, 977-985.	2.5	19
39	Irreversible Electroporation of the Lumbar Vertebrae in a Porcine Model: Is There Clinical-Pathologic Evidence of Neural Toxicity?. <i>Radiology</i> , 2014, 272, 709-719.	7.3	28
40	The design and efficacy of a robotâ€mediated visual motor program for children learning disabilities. <i>Journal of Computer Assisted Learning</i> , 2014, 30, 121-131.	5.1	9
41	Percutaneous Ablation of Peribiliary Tumors with Irreversible Electroporation. <i>Journal of Vascular and Interventional Radiology</i> , 2014, 25, 112-118.	0.5	143
42	MRI-Safe Robot for Endorectal Prostate Biopsy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 1289-1299.	5.8	100
43	Evaluation of an Endorectal Electrode for Performing Focused Irreversible Electroporation Ablations in the Swine Rectum. <i>Journal of Vascular and Interventional Radiology</i> , 2013, 24, 1249-1256.	0.5	21
44	Comparison of Simulation-based Treatment Planning with Imaging and Pathology Outcomes for Percutaneous CT-guided Irreversible Electroporation of the Porcine Pancreas: A Pilot Study. <i>Journal of Vascular and Interventional Radiology</i> , 2013, 24, 1709-1718.	0.5	23
45	A study of porcine liver motion during respiration for improving targeting in image-guided needle placements. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013, 8, 15-27.	2.8	20
46	Content validation of a novel robotic surgical simulator. <i>BJU International</i> , 2011, 107, 1130-1135.	2.5	77
47	Design and fabrication of a robotic mechanism for remote steering and positioning of interventional devices. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2010, 6, 160-170.	2.3	93
48	Can Image-Based Virtual Reality Help Teach Anatomy?. <i>Journal of Endourology</i> , 2010, 24, 629-634.	2.1	35
49	Face Validation of a Novel Robotic Surgical Simulator. <i>Urology</i> , 2010, 76, 357-360.	1.0	97
50	Improving haptic experience through biomechanical measurements. , 2009, , .		6
51	Experimental Evaluation of Shared Control for Rehabilitation of Fine Motor Skills. <i>Journal of Computing and Information Science in Engineering</i> , 2009, 9, .	2.7	12
52	RoSS: Virtual Reality Robotic Surgical Simulator for the da Vinci Surgical System. , 2008, , .		18
53	Comparative Study: Virtual Fixtures and Shared Control for Rehabilitation of Fine Motor Skills. , 2007, , .		10
54	HapStick: A High Fidelity Haptic Simulation for Billiards. , 2007, , .		5

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55	Principles of irreversible electroporation. , 0, , 13-19.		0