Govindarajan Srimathveeravalli

List of Publications by Year
in descending order

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	Percutaneous Ablation of Peribiliary Tumors with Irreversible Electroporation. Journal of Vascular and Interventional Radiology, 2014, 25, 112-118.	0.5	143
2	MRI-Safe Robot for Endorectal Prostate Biopsy. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1289-1299.	5.8	100
3	Face Validation of a Novel Robotic Surgical Simulator. Urology, 2010, 76, 357-360.	1.0	97
4	Design and fabrication of a robotic mechanism for remote steering and positioning of interventional devices. International Journal of Medical Robotics and Computer Assisted Surgery, 2010, 6, 160-170.	2.3	93
5	Content validation of a novel robotic surgical simulator. BJU International, 2011, 107, 1130-1135.	2.5	77
6	Macrophage-secreted TGF-Î²₁ contributes to fibroblast activation and ureteral stricture after ablation injury. American Journal of Physiology - Renal Physiology, 2019, 317, F52-F64.	2.7	70
7	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
8	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
9	The State of Irreversible Electroporation in Interventional Oncology. Seminars in Interventional Radiology, 2014, 31, 111-117.	0.8	51
10	Changes in peripheral blood T-cell balance after percutaneous tumor ablation. Minimally Invasive Therapy and Allied Technologies, 2017, 26, 331-337.	1.2	39
11	Can Image-Based Virtual Reality Help Teach Anatomy?. Journal of Endourology, 2010, 24, 629-634.	2.1	35
12	A Comparative Study of Ablation Boundary Sharpness After Percutaneous Radiofrequency, Cryo-, Microwave, and Irreversible Electroporation Ablation in Normal Swine Liver and Kidneys. CardioVascular and Interventional Radiology, 2017, 40, 1600-1608.	2.0	30
13	Irreversible Electroporation of the Lumbar Vertebrae in a Porcine Model: Is There Clinical-Pathologic Evidence of Neural Toxicity?. Radiology, 2014, 272, 709-719.	7.3	28
14	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
15	Peri-tumoral Metallic Implants Reduce the Efficacy of Irreversible Electroporation for the Ablation of Colorectal Liver Metastases. CardioVascular and Interventional Radiology, 2020, 43, 84-93.	2.0	24
16	Comparison of Simulation-based Treatment Planning with Imaging and Pathology Outcomes for Percutaneous CT-guided Irreversible Electroporation of the Porcine Pancreas: A Pilot Study. Journal of Vascular and Interventional Radiology, 2013, 24, 1709-1718.	0.5	23
17	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
18	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

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19	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
20	Evaluation of an Endorectal Electrode for Performing Focused Irreversible Electroporation Ablations in the Swine Rectum. Journal of Vascular and Interventional Radiology, 2013, 24, 1249-1256.	0.5	21
21	Reversible Electroporationâ€“Mediated Liposomal Doxorubicin Delivery to Tumors Can Be Monitored With ⁸⁹Zr-Labeled Reporter Nanoparticles. Molecular Imaging, 2018, 17, 153601211774972.	1.4	21
22	A study of porcine liver motion during respiration for improving targeting in image-guided needle placements. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 15-27.	2.8	20
23	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
24	Transmural ablation of the normal porcine common bile duct with catheter-directed irreversible electroporation is feasible and does not affect duct patency. Gastrointestinal Endoscopy, 2018, 87, 300.e1-300.e6.	1.0	20
25	<scp>MRI</scp>â€safe robot for targeted transrectal prostate biopsy: animal experiments. BJU International, 2014, 113, 977-985.	2.5	19
26	Normal Porcine Ureter Retains Lumen Wall Integrity but Not Patency Following Catheter-Directed Irreversible Electroporation: Imaging and Histologic Assessment over 28 Days. Journal of Vascular and Interventional Radiology, 2017, 28, 913-919.e1.	0.5	19
27	RoSS: Virtual Reality Robotic Surgical Simulator for the da Vinci Surgical System. , 2008, , .		18
28	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
29	Treatment Effects of WST11 Vascular Targeted Photodynamic Therapy for Urothelial Cell Carcinoma in Swine. Journal of Urology, 2016, 196, 236-243.	0.4	18
30	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
31	High power microwave ablation of normal swine lung: impact of duration of energy delivery on adverse event and heat sink effects. International Journal of Hyperthermia, 2018, 34, 1186-1193.	2.5	14
32	Catheter-based endobronchial electroporation is feasible for the focal treatment of peribronchial tumors. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 2150-2159.e3.	0.8	13
33	Experimental Evaluation of Shared Control for Rehabilitation of Fine Motor Skills. Journal of Computing and Information Science in Engineering, 2009, 9, .	2.7	12
34	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
35	Development of a Searchable Database of Cryoablation Simulations for Use in Treatment Planning. CardioVascular and Interventional Radiology, 2017, 40, 761-768.	2.0	12
36	Temporal evaluation of the microwave ablation zone and comparison of CT and gross sizes during the first month post-ablation in swine lung. Diagnostic and Interventional Imaging, 2019, 100, 279-285.	3.2	12

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37	Pirfenidone inhibits cryoablation induced local macrophage infiltration along with its associated TGFb1 expression and serum cytokine level in a mouse model. Cryobiology, 2018, 82, 106-111.	0.7	11
38	Comparative Study: Virtual Fixtures and Shared Control for Rehabilitation of Fine Motor Skills. , 2007, , .		10
39	Electroporation-induced changes in tumor vasculature and microenvironment can promote the delivery and increase the efficacy of sorafenib nanoparticles. Bioelectrochemistry, 2019, 130, 107328.	4.6	10
40	The design and efficacy of a robotâ€mediated visual motor program for children learning disabilities. Journal of Computer Assisted Learning, 2014, 30, 121-131.	5.1	9
41	Percutaneous image-guided ablation: From techniques to treatments. Presse Medicale, 2019, 48, e219-e231.	1.9	9
42	Lung Ablation with Irreversible Electroporation Promotes Immune Cell Infiltration by Sparing Extracellular Matrix Proteins and Vasculature: Implications for Immunotherapy. Bioelectricity, 2021, 3, 204-214.	1.1	9
43	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
44	Improving haptic experience through biomechanical measurements. , 2009, , .		6
45	HapStick: A High Fidelity Haptic Simulation for Billiards. , 2007, , .		5
46	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
47	The Effect of Irreversible Electroporation on Blood Vessels, Bile Ducts, Urinary Tract, Intestines, and Nerves. , 2018, , 81-94.		4
48	Ablation Zone Involution of Liver Tumors Is Faster in Patients Treated with Irreversible Electroporation Than Microwave Ablation. Medicina (Lithuania), 2021, 57, 877.	2.0	4
49	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
50	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
51	A new intrasurgical technique to safely and reproducibly induce partial unilateral urinary obstruction and renal scarring in a Rat Model. International Urology and Nephrology, 2020, 52, 1209-1218.	1.4	1
52	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
53	Principles of irreversible electroporation. , 0, , 13-19.		0
54	Medical Imaging of Electroporation. , 2017, , 761-776.		0

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55	Medical Imaging of Electroporation. , 2016, , 1-16.		0