

# Smitha Rao

## List of Publications by Year in descending order

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55  
papers

989  
citations

567281

15  
h-index

526287

27  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1280  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Implantable, Batteryless, and Wireless Capsule With Integrated Impedance and pH Sensors for Gastroesophageal Reflux Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 3131-3139.	4.2	110
2	Field Distribution Models of Spiral Coil for Misalignment Analysis in Wireless Power Transfer Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 920-930.	4.6	106
3	A Passive Radio-Frequency pH-Sensing Tag for Wireless Food-Quality Monitoring. <i>IEEE Sensors Journal</i> , 2012, 12, 487-495.	4.7	86
4	Multiple-Inputs and Multiple-Outputs Wireless Power Combining and Delivering Systems. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 6254-6263.	7.9	72
5	Multi-Functional Electrospun Nanofibers from Polymer Blends for Scaffold Tissue Engineering. <i>Fibers</i> , 2019, 7, 66.	4.0	63
6	Body Electric: Wireless Power Transfer for Implant Applications. <i>IEEE Microwave Magazine</i> , 2015, 16, 54-64.	0.8	59
7	An endoscopic wireless gastrostimulator (with video). <i>Gastrointestinal Endoscopy</i> , 2012, 75, 411-415.e1.	1.0	44
8	Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. <i>IEEE Sensors Journal</i> , 2013, 13, 3857-3864.	4.7	43
9	A miniature bidirectional telemetry system for <i>in vivo</i> gastric slow wave recordings. <i>Physiological Measurement</i> , 2012, 33, N29-N37.	2.1	28
10	Sol-Gel Deposition of Iridium Oxide for Biomedical Micro-Devices. <i>Sensors</i> , 2015, 15, 4212-4228.	3.8	28
11	Batteryless implantable dual-sensor capsule for esophageal reflux monitoring. <i>Gastrointestinal Endoscopy</i> , 2013, 77, 649-653.	1.0	26
12	Multicolor GLUT5-permeable fluorescent probes for fructose transport analysis. <i>Chemical Communications</i> , 2018, 54, 3855-3858.	4.1	24
13	Wireless sensor nodes for environmental monitoring in Internet of Things. , 2015, , .		22
14	Antimicrobial mechanisms of biomaterials: from macro to nano. <i>Biomaterials Science</i> , 2022, 10, 4392-4423.	5.4	22
15	Wireless Power Transfer for Autonomous Wearable Neurotransmitter Sensors. <i>Sensors</i> , 2015, 15, 24553-24572.	3.8	21
16	Investigation of wireless power transfer in through-wall applications. , 2012, , .		18
17	Wireless gastric stimulators. , 2014, , .		18
18	Metabolism-Driven High-Throughput Cancer Identification with GLUT5-Specific Molecular Probes. <i>Biosensors</i> , 2018, 8, 39.	4.7	18

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19	Wireless power transfer via air and building materials using multiple repeaters. , 2014, , .		14
20	Micro pH Sensors Based on Iridium Oxide Nanotubes. IEEE Nanotechnology Magazine, 2014, 13, 945-953.	2.0	14
21	Self-assembly of 3D nanostructures in electrospun polycaprolactone-polyaniline fibers and their application as scaffolds for tissue engineering. Materialia, 2019, 6, 100296.	2.7	14
22	Electro-Thermal Analysis of In-Plane Micropump. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 329-339.	1.3	13
23	A multi-input and multi-output wireless energy transfer system. , 2014, , .		13
24	Development of an Implanted RFID Impedance Sensor for Detecting Gastroesophageal Reflux. , 2007, , .		12
25	The Migration of Cancer Cells in Gradually Varying Chemical Gradients and Mechanical Constraints. Micromachines, 2014, 5, 13-26.	2.9	11
26	A mutual inductance approach for optimization of wireless energy transmission. , 2014, , .		11
27	Wireless power transfer by inductive coupling for implantable batteryless stimulators. , 2012, , .		9
28	Wireless power transfer for a miniature gastrostimulator. , 2012, , .		7
29	Position and angular misalignment analysis for a wirelessly powered stimulator. , 2013, , .		7
30	A Simple Wireless Batteryless Sensing Platform for Resistive and Capacitive Sensors. , 2007, , .		6
31	Investigative Study on Nitric Oxide Production in Human Dermal Fibroblast Cells under Normal and High Glucose Conditions. Medical Sciences (Basel, Switzerland), 2018, 6, 99.	2.9	6
32	Electrospun acellular scaffolds for mimicking the natural anisotropy of the extracellular matrix. RSC Advances, 2019, 9, 40190-40195.	3.6	6
33	Engineered Three-Dimensional Scaffolds Modulating Fate of Breast Cancer Cells Using Stiffness and Morphology Related Cell Adhesion. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 41-48.	2.3	6
34	An Implantable Wireless Impedance Sensor Capable of Distinguishing Air, Water and Acid in Gastroesophageal Reflux. Gastrointestinal Endoscopy, 2007, 65, AB332.	1.0	4
35	A Magnetic Actuator for Fiber-Optic Applications. International Journal of Optomechatronics, 2009, 3, 215-232.	6.6	4
36	Remote detection of gastroesophageal reflux using an impedance and pH sensing transponder. , 2012, , .		4

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37	Evaluation of Cytotoxic Effects of Different Concentrations of Porous Hollow Au Nanoparticles (PHAuNPs) on Cells. Journal of Nanotechnology, 2014, 2014, 1-7.	3.4	4
38	A cantilever-type electrostatic zipping actuator. , 2006, , .		3
39	A wireless sensor for detecting gastroesophageal reflux. , 2006, , .		2
40	A miniature power-efficient bidirectional telemetric platform for in-vivo acquisition of electrophysiological signals. , 2011, , .		2
41	Development of a laser micro-machined interdigitated capacitive strain sensor for structural health monitoring applications. , 2014, , .		2
42	An optical scanner based on cantilever-type electrostatic zipping actuators. , 2007, , .		1
43	Chemokine gradient formation in microfluidic devices to investigate prostate cancer cell migration. Proceedings of SPIE, 2008, , .	0.8	1
44	An Optical Scanner Based on a Cantilever-Type Zipping Actuator. International Journal of Optomechatronics, 2009, 3, 149-165.	6.6	1
45	Fabrication of pH-sensing iridium oxide nanotubes on patterned electrodes using anodic aluminum oxide nanotemplate. , 2013, , .		1
46	Miniature neurotransmitter sensors featured with iridium oxide nanorods. , 2014, , .		1
47	Implantable Wireless Medical Devices for Gastroesophageal Applications. , 0, , 1-39.		1
48	Fructose uptake-based rapid detection of breast cancer. , 2017, , .		1
49	Investigation of vertical displacement thermal actuators. , 2006, , .		0
50	240 PRELIMINARY CHARACTERIZATION OF A NOVEL MICROFLUIDIC DEVICE TO EVALUATE PROSTATE CANCER CELL MIGRATION. Journal of Urology, 2010, 183, .	0.4	0
51	Tu1570 A Miniature Wireless System for In Vivo Gastric Electrical Recording. Gastrointestinal Endoscopy, 2011, 73, AB450.	1.0	0
52	A wearable system for highly selective L-glutamate neurotransmitter sensing. , 2015, , .		0
53	A Microfluidic Assay for Metastasis Potential Analysis. , 2010, , .		0
54	Battery-Free Wireless Sensors for Healthcare and Food Quality Monitoring. , 2018, , 527-550.		0

#	ARTICLE	IF	CITATIONS
55	Abstract P3-02-11: Topographical cues overlaid with fructose-like molecules to assess breast cancer recruitment in nanofiber scaffolds. , 2020, , .		0