Ramji Sitaraman Lakshmanan

List of Publications by Citations

24 papers	636 citations	11 h-index	25 g-index
26 ext. papers	733 ext. citations	6.4 avg, IF	3.11 L-index

#	Paper	IF	Citations
24	Detection of Salmonella typhimurium in fat free milk using a phage immobilized magnetoelastic sensor. *Sensors and Actuators B: Chemical*, **2007**, 126, 544-550	8.5	107
23	A magnetoelastic resonance biosensor immobilized with polyclonal antibody for the detection of Salmonella typhimurium. *Biosensors and Bioelectronics*, **2007**, 22, 1474-9	11.8	89
22	Sequential detection of Salmonella typhimurium and Bacillus anthracis spores using magnetoelastic biosensors. *Biosensors and Bioelectronics*, **2009**, 24, 1730-6	11.8	88
21	Phage immobilized magnetoelastic sensor for the detection of Salmonella typhimurium. *Journal of Microbiological Methods*, **2007**, 71, 55-60	2.8	87
20	Phage coated magnetoelastic micro-biosensors for real-time detection of Bacillus anthracis spores. *Sensors and Actuators B: Chemical*, **2009**, 137, 501-506	8.5	58
19	Rapid and sensitive magnetoelastic biosensors for the detection of Salmonella typhimurium in a mixed microbial population. *Journal of Microbiological Methods*, **2007**, 70, 112-8	2.8	42
18	The effect of salt and phage concentrations on the binding sensitivity of magnetoelastic biosensors for Bacillus anthracis detection. *Biotechnology and Bioengineering*, **2008**, 101, 1014-21	4.9	36
17	Piezoelectric cantilever sensors with asymmetric anchor exhibit picogram sensitivity in liquids. *Sensors and Actuators B: Chemical*, **2011**, 153, 64-70	8.5	34
16	Measurement of the evolution of rigid and viscoelastic mass contributions from fibrin network formation during plasma coagulation using quartz crystal microbalance. *Sensors and Actuators B: Chemical*, **2014**, 192, 23-28	8.5	20
15	Magnetoelastic biosensor for the detection of Salmonella typhimurium in food products. *Sensing and Instrumentation for Food Quality and Safety*, **2007**, 1, 3-10		16
14	Impedance change as an alternate measure of resonant frequency shift of piezoelectric-excited millimeter-sized cantilever (PEMC) sensors. *Sensors and Actuators B: Chemical*, **2010**, 145, 601-604	8.5	13
13	Measurement of the viscoelastic properties of blood plasma clot formation in response to tissue factor concentration-dependent activation. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 6581-8	4.4	11
12	The modelling of blood coagulation using the quartz crystal microbalance. *Journal of Biomechanics*, **2013**, 46, 437-42	2.9	9
11	Analytical performance and characterization of antibody immobilized magnetoelastic biosensors. *Sensing and Instrumentation for Food Quality and Safety*, **2008**, 2, 27-33		9
10	Nature of sensitive high-order resonant modes in piezoelectric excited millimeter sized cantilever (PEMC) sensors. *Sensors and Actuators A: Physical*, **2011**, 171, 79-86	3.9	5
9	Selective detection of Salmonella typhimurium in the presence of high concentrations of masking bacteria. *Sensing and Instrumentation for Food Quality and Safety*, **2008**, 2, 234-239		4
8	Comparative study of thermal stability of magnetostrictive biosensor between two kinds of biorecognition elements. *Materials Science and Engineering C*, **2014**, 41, 78-82	8.3	3

List of Publications

7	Simple and convenient measurement of RBC deformability using QCM integrated with a novel model of cell viscoelasticity. *Sensors and Actuators B: Chemical*, **2018**, 266, 472-476	8.5	2
6	Monitoring the effects of fibrinogen concentration on blood coagulation using quartz crystal microbalance (QCM) and its comparison with thromboelastography **2013**,		2
5	Detection of S. Typhimirium and Bacillus Anthracis Spores in a Flow System Using ME Biosensors by Optimizing Phage Chemistry. *IEEE Sensors Journal*, **2009**, 9, 1091-1097	4	1
4	The Longevity of Polyclonal Antibody to Salmonella typhimurium at Different Temperatures on a Magnetostrictive Sensor Platform. *Nanoscience and Nanotechnology - Asia*, **2012**, 1, 25-30	0.7	
3	A method for characterizing mechanical properties of sugar films using a piezoelectric-excited millimeter sized cantilever (PEMC) sensor. *Sensors and Actuators B: Chemical*, **2011**, 160, 1304-1308	8.5	
2	Magnetoelastic Material as a Biosensor for the Detection of Salmonella Typhimurium.. *Materials Research Society Symposia Proceedings*, **2008**, 1129, 1		
1	Detection of Salmonella typhimurium using polyclonal antibody immobilized magnetostrictive biosensors **2006**, 6201, 220		