

# S R Balakrishnan

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

685  
citations

687220

13  
h-index

794469

19  
g-index

30  
all docs

30  
docs citations

30  
times ranked

833  
citing authors

#	ARTICLE	IF	CITATIONS
1	“Spotted Nanoflowers”™: Gold-seeded Zinc Oxide Nanohybrid for Selective Bio-capture. Scientific Reports, 2015, 5, 12231.	1.6	92
2	Gold-nanorod enhances dielectric voltammetry detection of c-reactive protein: A predictive strategy for cardiac failure. Biosensors and Bioelectronics, 2019, 130, 40-47.	5.3	83
3	Development of highly sensitive polysilicon nanogap with APTES/GOx based lab-on-chip biosensor to determine low levels of salivary glucose. Sensors and Actuators A: Physical, 2014, 220, 101-111.	2.0	66
4	Low Temperature Annealed Zinc Oxide Nanostructured Thin Film-Based Transducers: Characterization for Sensing Applications. PLoS ONE, 2015, 10, e0132755.	1.1	59
5	A Point-of-Care Immunosensor for Human Chorionic Gonadotropin in Clinical Urine Samples Using a Cuneated Polysilicon Nanogap Lab-on-Chip. PLoS ONE, 2015, 10, e0137891.	1.1	48
6	Nanogapped impedimetric immunosensor for the detection of 16kDa heat shock protein against Mycobacterium tuberculosis. Mikrochimica Acta, 2016, 183, 2697-2703.	2.5	43
7	A new nano-worm structure from gold-nanoparticle mediated random curving of zinc oxide nanorods. Biosensors and Bioelectronics, 2016, 78, 14-22.	5.3	39
8	Characterization of Gold-Sputtered Zinc Oxide Nanorods—a Potential Hybrid Material. Nanoscale Research Letters, 2016, 11, 31.	3.1	34
9	Thickness Dependent Nanostructural, Morphological, Optical and Impedometric Analyses of Zinc Oxide-Gold Hybrids: Nanoparticle to Thin Film. PLoS ONE, 2015, 10, e0144964.	1.1	32
10	Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnO nanolayer. Mikrochimica Acta, 2017, 184, 117-125.	2.5	32
11	Fabrication of interdigitated high-performance zinc oxide nanowire modified electrodes for glucose sensing. Analytica Chimica Acta, 2016, 925, 70-81.	2.6	30
12	Polysilicon nanogap lab-on-chip facilitates multiplex analyses with single analyte. Biosensors and Bioelectronics, 2016, 84, 44-52.	5.3	25
13	Comparative Analysis on Dielectric Gold and Aluminium Triangular Junctions: Impact of Ionic Strength and Background Electrolyte by pH Variations. Scientific Reports, 2020, 10, 6783.	1.6	20
14	pH sensing using in house fabricated polysilicon nanoelectrode based transducer. , 2012, , .		11
15	Voltammetric immunoassay for the human blood clotting factor IX by using nanogapped dielectrode junctions modified with gold nanoparticle-conjugated antibody. Mikrochimica Acta, 2017, 184, 3739-3745.	2.5	11
16	A low cost, light weight cenosphere—aluminium composite for brake disc application. Bulletin of Materials Science, 2016, 39, 299-305.	0.8	10
17	Aptamer-based determination of ATP by using a functionalized impedimetric nanosensor and mediation by a triangular junction transducer. Mikrochimica Acta, 2017, 184, 4425-4431.	2.5	10
18	Microfluidic Photomask Design Using CAD Software for Application in Lab-On-Chip Biomedical Nanodiagnosics. Advanced Materials Research, 0, 795, 388-392.	0.3	7

#	ARTICLE	IF	CITATIONS
19	Optical measurements on tailored zinc oxide thin films under optimal. Optik, 2016, 127, 3069-3074.	1.4	7
20	Carbon nanotubes-based electrochemical biosensors. , 2012, , .		6
21	Conventional Photolithography and Process Optimization of Pattern-Size Expansion Technique for Nanogap Biosensor Fabrication. Advanced Materials Research, 0, 832, 89-94.	0.3	5
22	Fuzzy Computing for Control of Aero Gas Turbine Engines .. Defence Science Journal, 1994, 44, 295-304.	0.5	4
23	Thin Film Thickness and Uniformity Measurement for Lab-on-Chip Based Nanoelectrode Biosensor Development. Advanced Materials Research, 0, 832, 95-100.	0.3	3
24	Pattern Transfer of 1½µm Sized Microgap and Microbridge Electrode for Application in Biomedical Nano-Diagnostics. Advanced Materials Research, 0, 925, 533-537.	0.3	3
25	Quantitative measurement of sugar concentration using in house fabricated microgap biosensor. , 2013, , .		2
26	Photoresist microbridge pattern optimization at 1µm using conventional photolithography technique. , 2013, , .		1
27	Nanoelectrode Chrome Photomask Design and Specification for Biosensor Fabrication. Advanced Materials Research, 0, 795, 397-402.	0.3	1
28	Optimization of Wear Behavior on Cenosphere -Aluminium Composite. Korean Journal of Materials Research, 2015, 25, 322-329.	0.1	1
29	A Fuzzy Logic Approach in the Control of a Twin-Spool Aircraft Gas Turbine Engine under Development. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 1996, 210, 273-281.	0.7	0
30	Design and Fabrication of Polydimethylsiloxane Based Low Cost Microfluidic for Ultra-Fast Diagnostic Applications. International Journal of Integrated Engineering, 2018, 10, .	0.2	0