

# Ruchi Gupta

## List of Publications by Year in descending order

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37  
papers

373  
citations

933447

10  
h-index

888059

17  
g-index

38  
all docs

38  
docs citations

38  
times ranked

454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antifungal effect of antimicrobial peptides (AMPs LR14) derived from <i>Lactobacillus plantarum</i> strain LR/14 and their applications in prevention of grain spoilage. <i>Food Microbiology</i> , 2014, 42, 1-7.	4.2	84
2	Method for Determining Average Iron Content of Ferritin by Measuring its Optical Dispersion. <i>Analytical Chemistry</i> , 2019, 91, 7366-7372.	6.5	24
3	Absorption spectroscopy in microfluidic flow cells using a metal clad leaky waveguide device with a porous gel waveguide layer. <i>Analyst, The</i> , 2013, 138, 307-314.	3.5	23
4	Enhanced Photoacoustic Gas Analyser Response Time and Impact on Accuracy at Fast Ventilation Rates during Multiple Breath Washout. <i>PLoS ONE</i> , 2014, 9, e98487.	2.5	20
5	Leaky waveguides (LWs) for chemical and biological sensing—A review and future perspective. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128628.	7.8	15
6	A novel leaky waveguide grating (LWG) device for evanescent wave broadband absorption spectroscopy in microfluidic flow cells. <i>Analyst, The</i> , 2013, 138, 1803.	3.5	14
7	In vivo Toxicity Assessment of Antimicrobial Peptides (AMPs LR14) Derived from <i>Lactobacillus plantarum</i> Strain LR/14 in <i>Drosophila melanogaster</i> . <i>Probiotics and Antimicrobial Proteins</i> , 2014, 6, 59-67.	3.9	14
8	Broadband absorption spectroscopy for rapid pH measurement in small volumes using an integrated porous waveguide. <i>Analyst, The</i> , 2017, 142, 169-176.	3.5	13
9	Speed and sensitivity—Integration of electrokinetic preconcentration with a leaky waveguide biosensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127063.	7.8	12
10	A novel manifestation at optical leaky waveguide modes for sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127776.	7.8	11
11	A proof-of-principle study for performing enzyme bioassays using substrates immobilized in a leaky optical waveguide. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 549-558.	7.8	10
12	A feasibility study of a leaky waveguide aptasensor for thrombin. <i>Analyst, The</i> , 2019, 144, 6048-6054.	3.5	10
13	Optimization Synthesis and Biosensing Performance of an Acrylate-Based Hydrogel as an Optical Waveguiding Sensing Film. <i>Analytical Chemistry</i> , 2020, 92, 14907-14914.	6.5	10
14	Capillary zone electrophoresis for the analysis of glycoforms of cellobiohydrolase. <i>Journal of Chromatography A</i> , 2011, 1218, 5362-5368.	3.7	9
15	A polymeric waveguide resonant mirror (RM) device for detection in microfluidic flow cells. <i>Analyst, The</i> , 2013, 138, 3209.	3.5	9
16	Accurate lung volume measurements in vitro using a novel inert gas washout method suitable for infants. <i>Pediatric Pulmonology</i> , 2016, 51, 491-497.	2.0	9
17	Optical waveguide for common path simultaneous refractive index and broadband absorption measurements in small volumes. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 1066-1075.	7.8	9
18	Photofunctionalizable Hydrogel for Fabricating Volume Optical Diffractive Sensors. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900228.	2.2	9

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19	A study of diffraction-based chitosan leaky waveguide (LW) biosensors. <i>Analyst, The</i> , 2021, 146, 4964-4971.	3.5	9
20	A Self-Referenced Diffraction-Based Optical Leaky Waveguide Biosensor Using Photofunctionalised Hydrogels. <i>Biosensors</i> , 2020, 10, 134.	4.7	8
21	3-D Printed Instrumentation for Point-of-Use Leaky Waveguide Biochemical Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6390-6398.	4.7	7
22	Complete microbe free processed porcine xenograft for clinical use. <i>Indian Journal of Thoracic and Cardiovascular Surgery</i> , 2007, 23, 240-245.	0.6	6
23	An unusual cause of hoarseness in an elderly asthmatic. <i>Mycoses</i> , 2010, 53, 544-546.	4.0	6
24	3-D Printed Analytical Platform for Automation of Fluid Manipulation Applied to Leaky Waveguide Biosensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12.	4.7	6
25	A microfluidic device for self-synchronised production of droplets. <i>Lab on A Chip</i> , 2011, 11, 4052.	6.0	4
26	Assessment of Anti-Plasmodial Activity of Non-Hemolytic, Non-Immunogenic, Non-Toxic Antimicrobial Peptides (AMPs LR14) Produced by <i>Lactobacillus plantarum</i> LR/14. <i>Drugs in R and D</i> , 2014, 14, 95-103.	2.2	4
27	Detection of mutations in <i>gyrB</i> using denaturing high performance liquid chromatography (DHPLC) among <i>Salmonella enterica</i> serovar Typhi and Paratyphi A. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2016, 110, 684-689.	1.8	4
28	An optofluidic Young interferometer sensor for real-time imaging of refractive index in $\hat{1}/4$ TAS applications. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128491.	7.8	4
29	Isotachopheresis-based sample preparation of cellulases in sugarcane juice using bovine serum albumin as a model protein. <i>Journal of Chromatography A</i> , 2010, 1217, 8026-8031.	3.7	3
30	Sclerema Neonatorum Treated Successfully with Parenteral Steroids: An Experience from a Resource Poor Country. <i>Case Reports in Pediatrics</i> , 2017, 2017, 1-4.	0.4	3
31	Hydrogel gratings with patterned analyte responsive dyes for spectroscopic sensing. <i>RSC Advances</i> , 2021, 11, 40197-40204.	3.6	2
32	Biosensor for determining average iron content of ferritin by measuring its optical dispersion. , 2020, , ,		1
33	A Specific, Robust, and Automated Method for Routine At-Line Monitoring of the Concentration of Cellulases in Genetically Modified Sugarcane Plants. <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 528-539.	2.9	0
34	Integration of Leaky Waveguide Detection with Electrowetting on Dielectric Digital Microfluidic Devices. <i>Journal of Physics: Conference Series</i> , 2013, 450, 012005.	0.4	0
35	130 Enhanced photoacoustic gas analyser (Innocor) for multiple breath washout. Improvements to analyser response time maintains accuracy at fast ventilation rates, and produces a system that meets all washout technology performance targets. <i>Journal of Cystic Fibrosis</i> , 2014, 13, S80.	0.7	0
36	Biosensing by Direct Observation of Leaky Waveguide Modes. <i>Journal of Physics: Conference Series</i> , 2021, 1919, 012002.	0.4	0

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37	Reflective leaky waveguide gratings (LWGs) with internal referencing for sensing. Sensors & Diagnostics, 0, , .	3.8	0