

# Aishwaryadev Banerjee

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

286  
citations

1307594

7  
h-index

1199594

12  
g-index

31  
all docs

31  
docs citations

31  
times ranked

261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correcting Presbyopia With Autofocusing Liquid-Lens Eyeglasses. IEEE Transactions on Biomedical Engineering, 2022, 69, 390-400.	4.2	4
2	A Micro-Fabricated Aluminum-Air Moving Biofluid Battery For Medical Wearables. , 2022, , .		2
3	Field Deployment of A Nanogap Gas Sensor For Crop Damage Detection. , 2022, , .		3
4	High-Toughness Aluminum-N-Doped Polysilicon Wiring for Flexible Electronics. , 2022, , .		5
5	Compact Models of Presbyopia Accommodative Errors for Wearable Adaptive-Optics Vision Correction Devices. IEEE Access, 2022, 10, 68857-68867.	4.2	5
6	Characterization of a Wake-Up Nano-Gap Gas Sensor for Ultra Low Power Operation. Journal of Microelectromechanical Systems, 2022, 31, 791-801.	2.5	4
7	Nanostructures for Biosensing, with a Brief Overview on Cancer Detection, IoT, and the Role of Machine Learning in Smart Biosensors. Sensors, 2021, 21, 1253.	3.8	43
8	Molecular bridge-mediated ultralow-power gas sensing. Microsystems and Nanoengineering, 2021, 7, 27.	7.0	9
9	Development of a Gas Sensor for Green Leaf Volatile Detection. , 2021, , .		4
10	Chemocapacitive Detection of Ethylene Using Potassium Permanganate/Polyimide Composite Thin-Films. , 2021, , .		2
11	Low-Profile Induced-Voltage Distance Ranger for Smart Contact Lenses. IEEE Transactions on Biomedical Engineering, 2021, 68, 2203-2210.	4.2	10
12	A Nano-Joule Burst-Mode Eye-Gaze Angle and Object Distance Sensor for Smart Contact Lenses. , 2021, , .		4
13	Threshold Point Modulation of a Wake-Up Nano-Gap Gas Sensor. , 2020, , .		3
14	Quantum Tunneling Hygrometer with Temperature Stabilized Nanometer Gap. Scientific Reports, 2020, 10, 4440.	3.3	8
15	Demonstration of $155.1 \mu\text{m}^2$ Wake-Up Gas Sensor Node Toward 8 Month Lifetime. , 2020, , .		4
16	Molecular Length Based Target Identification using a Nano-Gap Sensor. , 2019, , .		5
17	Statistics-Based Gas Sensor. , 2019, , .		5
18	Parametrically Amplified Low-Power MEMS Capacitive Humidity Sensor. Sensors, 2019, 19, 3954.	3.8	18

#	ARTICLE	IF	CITATIONS
19	Batch-Fabricated $\hat{\pm}$ -Si Assisted Nanogap Tunneling Junctions. <i>Nanomaterials</i> , 2019, 9, 727.	4.1	15
20	Low-voltage microfluidic actuator driven by tension modificaton. , 2017, , .		0
21	Nano-gap vapor sensor. , 2017, , .		13
22	Tunable-focus lens for adaptive eyeglasses. <i>Optics Express</i> , 2017, 25, 1221.	3.4	100
23	Low-Cost High-Speed In-Plane Stroboscopic Micro-Motion Analyzer. <i>Micromachines</i> , 2017, 8, 351.	2.9	1
24	A Monolithically Integrated Multisensor Platform. <i>IEEE Sensors Journal</i> , 2016, 16, 8854-8860.	4.7	5
25	Picowatt gas sensing and resistance switching in tunneling nano-gap electrodes. , 2016, , .		6
26	Encroachment and line of sight blocking in micro-cavity sealing. , 2015, , .		2
27	A monolithically integrated multi-sensor platform. , 2015, , .		2
28	A milli-volt triggered MEMS paddle switch. , 2015, , .		3
29	Fast pulsed heating and impact cooling of thermal microactuators. , 2015, , .		0