

# Aishwaryadev Banerjee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4355410/publications.pdf>

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29  
papers

286  
citations

1307594

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h-index

1199594

12  
g-index

31  
all docs

31  
docs citations

31  
times ranked

261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable-focus lens for adaptive eyeglasses. Optics Express, 2017, 25, 1221.	3.4	100
2	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
3	Parametrically Amplified Low-Power MEMS Capacitive Humidity Sensor. Sensors, 2019, 19, 3954.	3.8	18
4	Batch-Fabricated $\hat{\pm}$ -Si Assisted Nanogap Tunneling Junctions. Nanomaterials, 2019, 9, 727.	4.1	15
5	Nano-gap vapor sensor. , 2017, , .		13
6	Low-Profile Induced-Voltage Distance Ranger for Smart Contact Lenses. IEEE Transactions on Biomedical Engineering, 2021, 68, 2203-2210.	4.2	10
7	Molecular bridge-mediated ultralow-power gas sensing. Microsystems and Nanoengineering, 2021, 7, 27.	7.0	9
8	Quantum Tunneling Hygrometer with Temperature Stabilized Nanometer Gap. Scientific Reports, 2020, 10, 4440.	3.3	8
9	Picowatt gas sensing and resistance switching in tunneling nano-gap electrodes. , 2016, , .		6
10	A Monolithically Integrated Multisensor Platform. IEEE Sensors Journal, 2016, 16, 8854-8860.	4.7	5
11	Molecular Length Based Target Identification using a Nano-Gap Sensor. , 2019, , .		5
12	Statistics-Based Gas Sensor. , 2019, , .		5
13	High-Toughness Aluminum-N-Doped Polysilicon Wiring for Flexible Electronics. , 2022, , .		5
14	Compact Models of Presbyopia Accommodative Errors for Wearable Adaptive-Optics Vision Correction Devices. IEEE Access, 2022, 10, 68857-68867.	4.2	5
15	Demonstration of \$155.1 \mu\text{m}^2\$ Wake-Up Gas Sensor Node Toward 8 Month Lifetime. , 2020, , .		4
16	Correcting Presbyopia With Autofocusing Liquid-Lens Eyeglasses. IEEE Transactions on Biomedical Engineering, 2022, 69, 390-400.	4.2	4
17	Development of a Gas Sensor for Green Leaf Volatile Detection. , 2021, , .		4
18	A Nano-Joule Burst-Mode Eye-Gaze Angle and Object Distance Sensor for Smart Contact Lenses. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	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
20	A milli-volt triggered MEMS paddle switch. , 2015, , .		3
21	Threshold Point Modulation of a Wake-Up Nano-Gap Gas Sensor. , 2020, , .		3
22	Field Deployment of A Nanogap Gas Sensor For Crop Damage Detection. , 2022, , .		3
23	Encroachment and line of sight blocking in micro-cavity sealing. , 2015, , .		2
24	A monolithically integrated multi-sensor platform. , 2015, , .		2
25	Chemocapacitive Detection of Ethylene Using Potassium Permanganate/Polyimide Composite Thin-Films. , 2021, , .		2
26	A Micro-Fabricated Aluminum-Air Moving Biofluid Battery For Medical Wearables. , 2022, , .		2
27	Low-Cost High-Speed In-Plane Stroboscopic Micro-Motion Analyzer. Micromachines, 2017, 8, 351.	2.9	1
28	Fast pulsed heating and impact cooling of thermal microactuators. , 2015, , .		0
29	Low-voltage microfluidic actuator driven by tension modificaton. , 2017, , .		0