

# Anirban Paul

## List of Publications by Year in descending order

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38  
papers

742  
citations

566801

15  
h-index

525886

27  
g-index

38  
all docs

38  
docs citations

38  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold-Nanoparticle-Encapsulated ZIF-8 for a Mediator-Free Enzymatic Glucose Sensor by Amperometry. ACS Applied Nano Materials, 2018, 1, 3600-3607.	2.4	89
2	NiO hollow microspheres as efficient bifunctional electrocatalysts for Overall Water-Splitting. International Journal of Hydrogen Energy, 2018, 43, 21665-21674.	3.8	72
3	Review—Room-Temperature Ionic Liquids for Electrochemical Application with Special Focus on Gas Sensors. Journal of the Electrochemical Society, 2020, 167, 037511.	1.3	70
4	A fluorescent probe for bisulfite ions: its application to two-photon tissue imaging. Journal of Materials Chemistry B, 2016, 4, 7888-7894.	2.9	58
5	Electrochemical impedimetric biosensors, featuring the use of Room Temperature Ionic Liquids (RTILs): Special focus on non-faradaic sensing. Biosensors and Bioelectronics, 2021, 177, 112940.	5.3	52
6	Amperometric Glucose Sensing at Nanomolar Level Using MOF-Encapsulated TiO <sub>2</sub> Platform. ACS Omega, 2018, 3, 14634-14640.	1.6	38
7	Co@N-doped carbon nanomaterial derived by simple pyrolysis of mixed-ligand MOF as an active and stable oxygen evolution electrocatalyst. Applied Surface Science, 2020, 529, 147081.	3.1	36
8	Defect- and Phase-Induced Acceleration of Electrocatalytic Hydrogen Production by Ultrathin and Small MoS <sub>2</sub> -Decorated rGO Sheets. ACS Applied Nano Materials, 2018, 1, 4622-4632.	2.4	33
9	Large scale synthesis of Mo <sub>2</sub> C nanoparticle incorporated carbon nanosheet (Mo <sub>2</sub> C@C) for enhanced hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 18623-18634.	3.8	30
10	Picomolar detection of retinol binding protein 4 for early management of type II diabetes. Biosensors and Bioelectronics, 2019, 128, 122-128.	5.3	29
11	Design and Electrochemical Characterization of Spiral Electrochemical Notification Coupled Electrode (SENCE) Platform for Biosensing Application. Micromachines, 2020, 11, 333.	1.4	29
12	ZENose (ZIF-Based Electrochemical Nose) Platform for Noninvasive Ammonia Detection. ACS Applied Materials & Interfaces, 2021, 13, 16155-16165.	4.0	27
13	Porous carbon incorporated <sup>12</sup> -Mo <sub>2</sub> C hollow sphere: An efficient electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2018, 43, 21655-21664.	3.8	26
14	Semi-Interpenetrating Network-Type Cross-Linked Amphoteric Ion-Exchange Membrane Based on Styrene Sulfonate and Vinyl Benzyl Chloride for Vanadium Redox Flow Battery. ACS Omega, 2018, 3, 9872-9879.	1.6	22
15	M.A.T.H: Methanol vapor analytics through handheld sensing platform. Electrochimica Acta, 2021, 368, 137624.	2.6	16
16	Characterization of Room-Temperature Ionic Liquids to Study the Electrochemical Activity of Nitro Compounds. Sensors, 2020, 20, 1124.	2.1	14
17	Exfoliated colloidal MoS <sub>2</sub> nanosheet with predominantly 1T phase for electrocatalytic hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 18645-18656.	3.8	13
18	ZEUS (ZIF-based electrochemical ultrasensitive screening) device for isopentane analytics with focus on lung cancer diagnosis. RSC Advances, 2021, 11, 20519-20528.	1.7	13

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19	Can mechanochemical synthesis be utilized in the progress of chemosensing technology? A case study with a series of Cu <sup>2+</sup> selective receptors. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 213-223.	4.0	12
20	Fabrication of a Cu(II)-Selective Electrode in the Polyvinyl Chloride Matrix Utilizing Mechanochemically Synthesized Rhodamine 6g as an Ionophore. <i>ACS Omega</i> , 2018, 3, 16230-16237.	1.6	12
21	A rapid conductometric sensor for the analysis of cyanide using imidazole based receptor. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26790-26796.	1.3	9
22	E.Co.Tech-electrochemical handheld breathalyzer COVID sensing technology. <i>Scientific Reports</i> , 2022, 12, 4370.	1.6	8
23	ZeNose/GO hybrid composite for detection of clinically relevant VOCs in lower respiratory tract (Case study using Carene). <i>Materials Letters</i> , 2022, 307, 130975.	1.3	7
24	Electrochemical Visualization of Room Temperature Ionic Liquid for the Detection of Functionalized 1-phenylpyridine Analogue in Mixed Sample. <i>Journal of the Electrochemical Society</i> , 2020, 167, 137507.	1.3	4
25	AuNP@ZeNose (ZIF-based electrochemical nose) for detection of flu biomarker in breath. <i>Mikrochimica Acta</i> , 2022, 189, .	2.5	4
26	Electrochemically mediated multi-modal detection strategy-driven sensor platform to detect and quantify pesticides. <i>Electrochemical Science Advances</i> , 2022, 2, .	1.2	3
27	A novel single step method to rapidly screen for metal contaminants in beverages, a case study with aluminum. <i>Environmental Technology and Innovation</i> , 2022, 28, 102691.	3.0	3
28	DENSE: DiElectric Novel Soil Evaluation System to Electrochemically Profile Soil Matrices. <i>Journal of the Electrochemical Society</i> , 0, , .	1.3	3
29	In-situ tunable pP heterojunction based on organic conducting polymers. <i>Synthetic Metals</i> , 2016, 220, 95-101.	2.1	2
30	Combinatorial Sensors: An Integrated Approach to Lifestyle Management and Environmental Surveillance. , 2023, , 505-525.		2
31	Exploring the Role of Room Temperature Ionic Liquid as a Transducer in Electrochemical Soil Probing: A case study with [BMIM] [BF <sub>4</sub> ]. <i>Journal of the Electrochemical Society</i> , 2021, 168, 037505.	1.3	2
32	HELP (Hydrogen peroxide electrochemical profiling): A novel biosensor for measuring hydrogen peroxide levels expressed in breath for monitoring airway inflammation using electrochemical methods. <i>Biosensors and Bioelectronics: X</i> , 2022, 10, 100139.	0.9	2
33	Electrochemical loading of TEM grids used for the study of potential dependent morphology of polyaniline nanofibres. <i>Journal of Microscopy</i> , 2016, 261, 333-338.	0.8	1
34	Using an RTIL-Based Electrochemical Sensor Platform for Trace Detection of Heptane As Biomarker for Lung Cancer. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1365-1365.	0.0	1
35	(IMCS Second Place Best Paper Winner) Investigation of Room Temperature Ionic-Liquid (RTIL) Modified Electrode for Decoupling Soil Electrochemistry. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1557-1557.	0.0	0
36	Quick Portable Electrochemical Sensing Platform to Detect Al <sup>3+</sup> Content in Our Dietary Fruit Juices. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1364-1364.	0.0	0

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37	Application of Room Temperature Ionic Liquid As Sensing Modality for Selective Detection of Important Phenylpyperidine Analogue.. ECS Meeting Abstracts, 2020, MA2020-01, 2451-2451.	0.0	0
38	Probing Soil Electrochemistry: Electrochemical Characterization of Soil Via a Faradaic Approach. ECS Meeting Abstracts, 2020, MA2020-01, 2251-2251.	0.0	0