

Arnab Halder

List of Publications by Year in descending order

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34
papers

1,106
citations

430874

18
h-index

526287

27
g-index

37
all docs

37
docs citations

37
times ranked

1797
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold surfaces and nanoparticles are protected by Au(0)â€“thiyl species and are destroyed when Au(I)â€“thiolates form. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1424-33.	7.1	116
2	Enhanced microbial electrosynthesis with three-dimensional graphene functionalized cathodes fabricated via solvothermal synthesis. Electrochimica Acta, 2016, 217, 117-122.	5.2	112
3	Graphene papers: smart architecture and specific functionalization for biomimetics, electrocatalytic sensing and energy storage. Materials Chemistry Frontiers, 2017, 1, 37-60.	5.9	67
4	Biocompatible propulsion for biomedical micro/nano robotics. Biosensors and Bioelectronics, 2019, 139, 111334.	10.1	67
5	Free-standing and flexible graphene papers as disposable non-enzymatic electrochemical sensors. Bioelectrochemistry, 2016, 109, 87-94.	4.6	66
6	Interlocked grapheneâ€“Prussian blue hybrid composites enable multifunctional electrochemical applications. Biosensors and Bioelectronics, 2017, 89, 570-577.	10.1	62
7	Sensory development for heavy metal detection: A review on translation from conventional analysis to field-portable sensor. Trends in Food Science and Technology, 2021, 109, 674-689.	15.1	62
8	Engineering two-dimensional layered nanomaterials for wearable biomedical sensors and power devices. Materials Chemistry Frontiers, 2018, 2, 1944-1986.	5.9	59
9	Freestanding and flexible graphene papers as bioelectrochemical cathode for selective and efficient CO2 conversion. Scientific Reports, 2017, 7, 9107.	3.3	55
10	One-Pot Green Synthesis of Biocompatible Graphene Quantum Dots and Their Cell Uptake Studies. ACS Applied Bio Materials, 2018, 1, 452-461.	4.6	52
11	Full-bandwidth electrophysiology of seizures and epileptiform activity enabled by flexible graphene microtransistor depth neural probes. Nature Nanotechnology, 2022, 17, 301-309.	31.5	49
12	Electroactive and biocompatible functionalization of graphene for the development of biosensing platforms. Biosensors and Bioelectronics, 2017, 87, 764-771.	10.1	47
13	Fluorescent Nanosensor Based on Molecularly Imprinted Polymers Coated on Graphene Quantum Dots for Fast Detection of Antibiotics. Biosensors, 2018, 8, 82.	4.7	44
14	Sulfur ligand mediated electrochemistry of gold surfaces and nanoparticles: What, how, and why. Current Opinion in Electrochemistry, 2017, 1, 7-15.	4.8	31
15	A facile molecularly imprinted polymer-based fluorometric assay for detection of histamine. RSC Advances, 2018, 8, 2365-2372.	3.6	26
16	Two-dimensional graphene paper supported flexible enzymatic fuel cells. Nanoscale Advances, 2019, 1, 2562-2570.	4.6	26
17	Graphene directed architecture of fine engineered nanostructures with electrochemical applications. Electrochimica Acta, 2017, 242, 202-218.	5.2	24
18	3D Carbon Microelectrodes with Bio-Functionalized Graphene for Electrochemical Biosensing. Biosensors, 2018, 8, 70.	4.7	22

#	ARTICLE	IF	CITATIONS
19	Dispersive solid-phase imprinting of proteins for the production of plastic antibodies. <i>Chemical Communications</i> , 2018, 54, 3355-3358.	4.1	18
20	Electrocatalytic Applications of Graphene-Metal Oxide Nanohybrid Materials. , 0, , .		17
21	Ultralight, Flexible, and Semi-Transparent Metal Oxide Papers for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3922-3930.	8.0	17
22	A multivalent aptamer-based electrochemical biosensor for biomarker detection in urinary tract infection. <i>Electrochimica Acta</i> , 2021, 389, 138644.	5.2	12
23	Graphene-Metal Oxide Hybrid Nanostructured Materials for Electrocatalytic Sensing and Sustainable Energy Storage. <i>Reviews in Advanced Sciences and Engineering</i> , 2016, 5, 4-31.	0.6	8
24	Molecularly imprinted nanoparticles for inhibiting ribonuclease in reverse transcriptase polymerase chain reaction. <i>Analyst</i> , The, 2018, 143, 2750-2754.	3.5	7
25	Electrochemical pyrolytic carbon resonators for mass sensing on electrodeposited polymers. <i>Micro and Nano Engineering</i> , 2019, 2, 64-69.	2.9	7
26	Nanoporous hybrid CuO/ZnO/carbon papers used as ultrasensitive non-enzymatic electrochemical sensors. <i>RSC Advances</i> , 2019, 9, 41886-41892.	3.6	7
27	Free-Standing NiO Nanosheets as Non-Enzymatic Electrochemical Sensors. <i>ChemistrySelect</i> , 2020, 5, 2424-2429.	1.5	7
28	Polymer membrane electrode based potentiometric taste sensor: A new sensor to distinguish five basic tastes. , 2012, , .		5
29	Discrimination of tea quality by polymer membrane electrode based potentiometric taste sensor. , 2012, , .		4
30	Development of novel polymeric sensors for taste sensing: Electronic tongue. , 2013, , .		4
31	Taste sensing with HDTC modified polyvinyl alcohol-polyacrylic acid membrane. , 2012, , .		2
32	Graphene-Paper Based Electrochemical Sensors. , 0, , .		1
33	Amino Acid Assisted One-Pot Green Synthesis of N-Doped 3D Graphene for Ultrasensitive Neurochemical Sensing. <i>ChemistrySelect</i> , 2020, 5, 13951-13956.	1.5	1
34	Bioengineering of Solution Processed Graphene for the Development of Ultrasensitive Flexible Biosensing Platform. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0