

Ayesha Aziz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/202620/publications.pdf>

Version: 2024-02-01

30
papers

1,771
citations

361413

20
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

1283
citing authors

#	ARTICLE	IF	CITATIONS
1	High-density phage particles immobilization in surface-modified bacterial cellulose for ultra-sensitive and selective electrochemical detection of <i>Staphylococcus aureus</i> . <i>Biosensors and Bioelectronics</i> , 2020, 157, 112163.	10.1	150
2	Core-shell iron oxide-layered double hydroxide: High electrochemical sensing performance of H ₂ O ₂ biomarker in live cancer cells with plasma therapeutics. <i>Biosensors and Bioelectronics</i> , 2017, 97, 352-359.	10.1	135
3	Superlattice stacking by hybridizing layered double hydroxide nanosheets with layers of reduced graphene oxide for electrochemical simultaneous determination of dopamine, uric acid and ascorbic acid. <i>Mikrochimica Acta</i> , 2019, 186, 61.	5.0	133
4	Metal oxide intercalated layered double hydroxide nanosphere: With enhanced electrocatalytic activity towards H ₂ O ₂ for biological applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 243-252.	7.8	129
5	Hierarchical CNTs@CuMn Layered Double Hydroxide Nanohybrid with Enhanced Electrochemical Performance in H ₂ S Detection from Live Cells. <i>Analytical Chemistry</i> , 2019, 91, 3912-3920.	6.5	127
6	A review on electrochemical biosensing platform based on layered double hydroxides for small molecule biomarkers determination. <i>Advances in Colloid and Interface Science</i> , 2018, 262, 21-38.	14.7	107
7	The role of biosensors in coronavirus disease-2019 outbreak. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 174-184.	4.8	100
8	Self-stacking of exfoliated charged nanosheets of LDHs and graphene as biosensor with real-time tracking of dopamine from live cells. <i>Analytica Chimica Acta</i> , 2019, 1047, 197-207.	5.4	98
9	Advancements in electrochemical sensing of hydrogen peroxide, glucose and dopamine by using 2D nanoarchitectures of layered double hydroxides or metal dichalcogenides. A review. <i>Mikrochimica Acta</i> , 2019, 186, 671.	5.0	91
10	Facet-Inspired Core-Shell Gold Nanoparticles on Metal Oxide Octahedral Heterostructures: High Sensing Performance toward Sulfide in Biotic Fluids. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36675-36685.	8.0	80
11	Bacteriophage-based advanced bacterial detection: Concept, mechanisms, and applications. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112973.	10.1	66
12	Tuning Electrocatalytic Aptitude by Incorporating γ -MnO ₂ Nanorods in Cu-MOF/rGO/CuO Hybrids: Electrochemical Sensing of Resorcinol for Practical Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31462-31473.	8.0	64
13	Rice-Spikelet-like Copper Oxide Decorated with Platinum Stranded in the CNT Network for Electrochemical <i>In Vitro</i> Detection of Serotonin. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6023-6033.	8.0	64
14	Unveiling microbiologically influenced corrosion engineering to transfigure damages into benefits: A textile sensor for H ₂ O ₂ detection in clinical cancer tissues. <i>Chemical Engineering Journal</i> , 2022, 427, 131398.	12.7	54
15	Real-time tracking of hydrogen peroxide secreted by live cells using MnO ₂ nanoparticles intercalated layered double hydroxide nanohybrids. <i>Analytica Chimica Acta</i> , 2015, 898, 34-41.	5.4	50
16	Trends in biosensing platforms for SARS-CoV-2 detection: A critical appraisal against standard detection tools. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 52, 101418.	7.4	46
17	Nanocomposites consisting of copper and copper oxide incorporated into MoS ₄ nanostructures for sensitive voltammetric determination of bisphenol A. <i>Mikrochimica Acta</i> , 2019, 186, 337.	5.0	41
18	Facet-energy inspired metal oxide extended hexapods decorated with graphene quantum dots: sensitive detection of bisphenol A in live cells. <i>Nanoscale</i> , 2020, 12, 9014-9023.	5.6	35

#	ARTICLE	IF	CITATIONS
19	Topical advances in nanomaterials based electrochemical sensors for resorcinol detection. Trends in Environmental Analytical Chemistry, 2021, 31, e00138.	10.3	34
20	Boosting electrocatalytic activity of carbon fiber@fusiform-like copper-nickel LDHs: Sensing of nitrate as biomarker for NOB detection. Journal of Hazardous Materials, 2022, 422, 126907.	12.4	34
21	Engineering MOFs derived metal oxide nanohybrids: Towards electrochemical sensing of catechol in tea samples. Food Chemistry, 2022, 395, 133642.	8.2	23
22	Showcasing advanced electrocatalytic behavior of layered double hydroxide wrapped on carbon nanotubes: Real-time monitoring of L-cysteine in biological matrices. Chemical Engineering Journal, 2022, 440, 135985.	12.7	21
23	Advancing interfacial properties of carbon cloth via anodic-induced self-assembly of MOFs film integrated with $\text{I}^{\pm}\text{-MnO}_2$: A sustainable electrocatalyst sensing acetylcholine. Journal of Hazardous Materials, 2022, 426, 128133.	12.4	19
24	Detecting and inactivating severe acute respiratory syndrome coronavirus-2 under the auspices of electrochemistry. Current Research in Chemical Biology, 2021, 1, 100001.	2.9	18
25	COVID-19 Impacts, Diagnosis and Possible Therapeutic Techniques: A Comprehensive Review. Current Pharmaceutical Design, 2021, 27, 1170-1184.	1.9	13
26	Tuning the Redox Chemistry of Copper Oxide Nanoarchitectures Integrated with rGOP <i>via</i> Facet Engineering: Sensing H_2S toward SRB Detection. ACS Applied Materials & Interfaces, 2022, 14, 19480-19490.	8.0	13
27	Turning the Page: Advancing Detection Platforms for Sulfate Reducing Bacteria and their Perks. Chemical Record, 2022, 22, .	5.8	11
28	Extension of duplex specific nuclease sensing application with RNA aptamer. Talanta, 2022, 242, 123314.	5.5	7
29	A Multicomponent Polymer-Metal-Enzyme System as Electrochemical Biosensor for H_2O_2 Detection. Frontiers in Chemistry, 2022, 10, 874965.	3.6	5
30	Boosting the Electrochemical Performance of PI-5-CA/C-SWCNT Nanohybrid for Sensitive Detection of E. coli O157:H7 From the Real Sample. Frontiers in Chemistry, 2022, 10, 843859.	3.6	3