

Muhammad Umer

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,320
citations

471509

17
h-index

377865

34
g-index

42
all docs

42
docs citations

42
times ranked

2153
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating tumor DNA and liquid biopsy: opportunities, challenges, and recent advances in detection technologies. <i>Lab on A Chip</i> , 2018, 18, 1174-1196.	6.0	234
2	Laser induced self-N-doped porous graphene as an electrochemical biosensor for femtomolar miRNA detection. <i>Carbon</i> , 2020, 163, 385-394.	10.3	118
3	Nanoarchitecture Frameworks for Electrochemical miRNA Detection. <i>Trends in Biochemical Sciences</i> , 2019, 44, 433-452.	7.5	115
4	Hepatitis C virus prevalence and genotype distribution in Pakistan: Comprehensive review of recent data. <i>World Journal of Gastroenterology</i> , 2016, 22, 1684.	3.3	110
5	An amplification-free electrochemical detection of exosomal miRNA-21 in serum samples. <i>Analyst</i> , The, 2018, 143, 1662-1669.	3.5	106
6	Deciphering the Epigenetic Code: An Overview of DNA Methylation Analysis Methods. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1972-1986.	5.4	66
7	Detection of the SARS-CoV-2 humanized antibody with paper-based ELISA. <i>Analyst</i> , The, 2020, 145, 7680-7686.	3.5	62
8	Circulating tumor microemboli: Progress in molecular understanding and enrichment technologies. <i>Biotechnology Advances</i> , 2018, 36, 1367-1389.	11.7	59
9	Microneedle Arrays for Sampling and Sensing Skin Interstitial Fluid. <i>Chemosensors</i> , 2021, 9, 83.	3.6	44
10	MicroRNAs in ovarian cancer and recent advances in the development of microRNA-based biosensors. <i>Analyst</i> , The, 2020, 145, 2038-2057.	3.5	42
11	DNA methylation detection: recent developments in bisulfite free electrochemical and optical approaches. <i>Analyst</i> , The, 2018, 143, 4802-4818.	3.5	41
12	Isolation and Detection of Exosomes Using Fe ₂ O ₃ Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021, 4, 1175-1186.	5.0	41
13	Naked-eye and electrochemical detection of isothermally amplified HOTAIR long non-coding RNA. <i>Analyst</i> , The, 2018, 143, 3021-3028.	3.5	30
14	Promoter hypermethylation of Wnt pathway inhibitors in hepatitis C virus - induced multistep hepatocarcinogenesis. <i>Virology Journal</i> , 2014, 11, 117.	3.4	26
15	LC-MS/MS-based determination of chloramphenicol, thiamphenicol, florfenicol and florfenicol amine in poultry meat from the Punjab-Pakistan. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 1530-1542.	2.3	26
16	Detection of FGFR2-FAM76A Fusion Gene in Circulating Tumor RNA Based on Catalytic Signal Amplification of Graphene Oxide-loaded Magnetic Nanoparticles. <i>Electroanalysis</i> , 2018, 30, 2293-2301.	2.9	24
17	A novel RdRp-based colorimetric RT-LAMP assay for rapid and sensitive detection of SARS-CoV-2 in clinical and sewage samples from Pakistan. <i>Virus Research</i> , 2021, 302, 198484.	2.2	24
18	Naphthalene flanked diketopyrrolopyrrole: a new conjugated building block with hexyl or octyl alkyl side chains for electropolymerization studies and its biosensor applications. <i>Polymer Chemistry</i> , 2019, 10, 3722-3739.	3.9	16

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19	Exosomal microRNAs array sensor with a bioconjugate composed of p53 protein and hydrazine for the specific lung cancer detection. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114149.	10.1	16
20	PCR-Free Detection of Long Non-Coding HOTAIR RNA in Ovarian Cancer Cell Lines and Plasma Samples. <i>Cancers</i> , 2020, 12, 2233.	3.7	12
21	Vanadium-Substituted Tungstosulfate Polyoxometalates as Peroxidase Mimetics and Their Potential Application in Biosensing. <i>ChemElectroChem</i> , 2020, 7, 3943-3950.	3.4	12
22	An amplification-free method for the detection of HOTAIR long non-coding RNA. <i>Analytica Chimica Acta</i> , 2020, 1132, 66-73.	5.4	10
23	Electropolymerized Porous Polymer Films on Flexible Indium Tin Oxide Using Trifunctional Furan Substituted Benzene Conjugated Monomer for Biosensing. <i>ACS Applied Polymer Materials</i> , 2020, 2, 351-359.	4.4	10
24	Specific and quantitative detection of Human polyomaviruses BKPyV and JCPyV in the healthy Pakistani population. <i>Virology Journal</i> , 2017, 14, 86.	3.4	9
25	SHISA3, an antagonist of the Wnt/ β -catenin signaling, is epigenetically silenced and its ectopic expression suppresses growth in breast cancer. <i>PLoS ONE</i> , 2020, 15, e0236192.	2.5	9
26	A Portable Device for LAMP Based Detection of SARS-CoV-2. <i>Micromachines</i> , 2021, 12, 1151.	2.9	8
27	A novel DNA binding protein-based platform for electrochemical detection of miRNA. <i>Analyst</i> , The, 2021, 146, 5496-5501.	3.5	7
28	A cornucopia of screening and diagnostic techniques for human papillomavirus associated cervical carcinomas. <i>Journal of Virological Methods</i> , 2015, 222, 192-201.	2.1	6
29	Human BK and JC polyomaviruses: Molecular insights and prevalence in Asia. <i>Virus Research</i> , 2020, 278, 197860.	2.2	5
30	Merkel cell polyomavirus DNA sequences in the blood of healthy population of Pakistan. <i>Future Microbiology</i> , 2019, 14, 599-608.	2.0	4
31	Molecular and Serological Detection of Avian Influenza H9N2 Virus in Asymptomatic Commercial Layers in Faisalabad District, Punjab. <i>Pakistan Journal of Zoology</i> , 2016, 49, 371-373.	0.2	4
32	Loop-Mediated Isothermal Amplification in a Core-Shell Bead Assay for the Detection of Tyrosine Kinase AXL Overexpression. <i>Micromachines</i> , 2021, 12, 905.	2.9	3
33	<i>e</i> -Magnetomethyl IP: a magnetic nanoparticle-mediated immunoprecipitation and electrochemical detection method for global DNA methylation. <i>Analyst</i> , The, 2021, 146, 3654-3665.	3.5	3
34	Preventive Strategies against Human Papillomaviruses. , 0, , .		2
35	Microbicides for the Prevention of HPV, HIV-1, and HSV-2: Sexually Transmitted Viral Infections. , 2017, , .		1
36	Naked eye evaluation and quantitative detection of the sugarcane leaf scald pathogen,. <i>Crop and Pasture Science</i> , 2021, 72, 361-371.	1.5	1

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37	Vanadium-Substituted Tungstosulfate Polyoxometalates as Peroxidase Mimetics and Their Potential Application in Biosensing. ChemElectroChem, 2020, 7, 3894-3894.	3.4	0