Muhammet Aydin

List of Publications by Year
in descending order

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37 papers	1,087 citations	361413 20 h-index	395702 33 g-index
37 all docs	37 docs citations	37 times ranked	959 citing authors

#	Article	IF	Citations
1	Label-free and reagent-less electrochemical detection of nucleocapsid protein of SARS-CoV-2: an ultrasensitive and disposable biosensor. New Journal of Chemistry, 2022, 46, 9172-9183.	2.8	8
2	Determination of calreticulin using Fe3O4@AuNPs core-shell functionalized with PT(COOH)2 polymer modified electrode: A new platform for the impedimetric biosensing of cancer biomarkers. Sensors and Actuators B: Chemical, 2022, 367, 132099.	7.8	14
3	Fabrication of electrochemical immunosensor based on acid-substituted poly(pyrrole) polymer modified disposable ITO electrode for sensitive detection of CCR4 cancer biomarker in human serum. Talanta, 2021, 222, 121487.	5.5	29
4	Advances in immunosensor technology. Advances in Clinical Chemistry, 2021, 102, 1-62.	3.7	31
5	A novel electrochemical immunosensor based on acetylene black/epoxy-substituted-polypyrrole polymer composite for the highly sensitive and selective detection of interleukin 6. Talanta, 2021, 222, 121596.	5.5	48
6	Electrochemical Immunosensor for Detection of CCR4 Cancer Biomarker in Human Serum: An Alternative Strategy for Modification of Disposable ITO Electrode. Macromolecular Bioscience, 2021, 21, e2000267.	4.1	4
7	A Label-free Electrochemical Immunosensor for Highly Sensitive Detection of TNF Î±, Based on Star Polymer-modified disposable ITO Electrode. Current Pharmaceutical Analysis, 2021, 17, 450-459.	0.6	3
8	Detection of Kallikrein-Related Peptidase 4 with a Label-free Electrochemical Impedance Biosensor Based on a Zinc(II) Phthalocyanine Tetracarboxylic Acid-Functionalized Disposable Indium Tin Oxide Electrode. ACS Biomaterials Science and Engineering, 2021, 7, 1192-1201.	5.2	6
9	New Impedimetric Sandwich Immunosensor for Ultrasensitive and Highly Specific Detection of Spike Receptor Binding Domain Protein of SARS-CoV-2. ACS Biomaterials Science and Engineering, 2021, 7, 3874-3885.	5.2	22
10	Ultrasensitive and Selective Impedimetric Determination of Prostate Specific Membrane Antigen Based on Diâ€Succinimide Functionalized Polythiophene Covered Costâ€Effective Indium Tin Oxide. Macromolecular Bioscience, 2021, 21, e2100173.	4.1	5
11	Highly selective and sensitive sandwich immunosensor platform modified with MUA-capped GNPs for detection of spike Receptor Binding Domain protein: A precious marker of COVID 19 infection. Sensors and Actuators B: Chemical, 2021, 345, 130355.	7.8	36
12	An ultrasensitive immunosensor based on tri-armed star poly(glycidyl methacrylate) polymer-coated ITO-PET electrode for detection of neuron-specific enolase in human serum. International Journal of Environmental Analytical Chemistry, 2020, 100, 492-506.	3.3	8
13	Biosensors and the evaluation of food contaminant biosensors in terms of their performance criteria. International Journal of Environmental Analytical Chemistry, 2020, 100, 602-622.	3.3	8
14	Selective and ultrasensitive electrochemical immunosensing of NSE cancer biomarker in human serum using epoxy-substituted poly(pyrrole) polymer modified disposable ITO electrode. Sensors and Actuators B: Chemical, 2020, 306, 127613.	7.8	61
15	A label-free immunosensor for sensitive detection of RACK 1 cancer biomarker based on conjugated polymer modified ITO electrode. Journal of Pharmaceutical and Biomedical Analysis, 2020, 190, 113517.	2.8	6
16	Construction of succinimide group substituted polythiophene polymer functionalized sensing platform for ultrasensitive detection of KLK 4 cancer biomarker. Sensors and Actuators B: Chemical, 2020, 325, 128788.	7.8	18
17	Paper-based devices. , 2020, , 107-166.		0
18	The development of an ultra-sensitive electrochemical immunosensor using a PPyr-NHS functionalized disposable ITO sheet for the detection of interleukin 6 in real human serums. New Journal of Chemistry, 2020, 44, 14228-14238.	2.8	27

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19	A sensitive and selective approach for detection of IL 1Î± cancer biomarker using disposable ITO electrode modified with epoxy-substituted polythiophene polymer. Biosensors and Bioelectronics, 2019, 144, 111675.	10.1	30
20	Immobilization Techniques of Nanomaterials. , 2019, , 47-78.		1
21	A Highly Selective Poly(thiophene)â€graftâ€Poly(methacrylamide) Polymer Modified ITO Electrode for Neuron Specific Enolase Detection in Human Serum. Macromolecular Bioscience, 2019, 19, e1900109.	4.1	29
22	Advances in electrochemical immunosensors. Advances in Clinical Chemistry, 2019, 92, 1-57.	3.7	31
23	Ultrasensitive determination of cadherin-like protein 22 with a label-free electrochemical immunosensor using brush type poly(thiophene-g-glycidylmethacrylate) modified disposable ITO electrode. Talanta, 2019, 200, 387-397.	5.5	21
24	Electrochemical immunosensor for CDH22 biomarker based on benzaldehyde substituted poly(phosphazene) modified disposable ITO electrode: A new fabrication strategy for biosensors. Biosensors and Bioelectronics, 2019, 126, 230-239.	10.1	47
25	Biosensors in Drug Discovery and Drug Analysis. Current Analytical Chemistry, 2019, 15, 467-484.	1.2	17
26	A new, sensitive and disposable electrochemical immunosensor based on Benzaldehyde side group containing phosphazene polymer modified ITO substrate for Interleukin 1Î² detection. Hacettepe Journal of Biology and Chemistry, 2019, 47, 305-315.	0.9	1
27	A disposable immunosensor using ITO based electrode modified by a star-shaped polymer for analysis of tumor suppressor protein p53 in human serum. Biosensors and Bioelectronics, 2018, 107, 1-9.	10.1	62
28	Pyreneâ€functional star polymers as fluorescent probes for nitrophenolic compounds. Journal of Applied Polymer Science, 2018, 135, 46310.	2.6	15
29	Highly sensitive electrochemical immunosensor based on polythiophene polymer with densely populated carboxyl groups as immobilization matrix for detection of interleukin 1Î² in human serum and saliva. Sensors and Actuators B: Chemical, 2018, 270, 18-27.	7.8	53
30	Electrochemical immunosensor based on chitosan/conductive carbon black composite modified disposable ITO electrode: An analytical platform for p53 detection. Biosensors and Bioelectronics, 2018, 121, 80-89.	10.1	76
31	A highly selective electrochemical immunosensor based on conductive carbon black and star PGMA polymer composite material for IL-8 biomarker detection in human serum and saliva. Biosensors and Bioelectronics, 2018, 117, 720-728.	10.1	82
32	A highly sensitive immunosensor based on ITO thin films covered by a new semi-conductive conjugated polymer for the determination of TNFÎ± in human saliva and serum samples. Biosensors and Bioelectronics, 2017, 97, 169-176.	10.1	95
33	Phosphazene-cored star polymer bearing redox-active side groups as a cathode-active material in Li-ion batteries. Reactive and Functional Polymers, 2016, 102, 11-19.	4.1	11
34	A polythiophene derivative bearing two electroactive groups per monomer as a cathode material for rechargeable batteries. Journal of Solid State Electrochemistry, 2015, 19, 2275-2281.	2.5	23
35	Synthesis, magnetic and electrical characteristics of poly(2-thiophen-3-yl-malonic acid)/Fe3O4 nanocomposite. Journal of Alloys and Compounds, 2012, 514, 45-53.	5.5	29
36	A polythiophene derivative bearing TEMPO as a cathode material for rechargeable batteries. European Polymer Journal, 2011, 47, 2283-2294.	5.4	92

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37	Synthesis and characterization of poly(3-thiophene acetic acid)/Fe3O4 nanocomposite. Polyhedron, 2011, 30, 1120-1126.	2.2	38