

Muhammet Aydin

List of Publications by Year in descending order

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Version: 2024-02-01

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	A highly sensitive immunosensor based on ITO thin films covered by a new semi-conductive conjugated polymer for the determination of TNF α in human saliva and serum samples. <i>Biosensors and Bioelectronics</i> , 2017, 97, 169-176.	10.1	95
2	A polythiophene derivative bearing TEMPO as a cathode material for rechargeable batteries. <i>European Polymer Journal</i> , 2011, 47, 2283-2294.	5.4	92
3	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. <i>Biosensors and Bioelectronics</i> , 2018, 117, 720-728.	10.1	82
4	Electrochemical immunosensor based on chitosan/conductive carbon black composite modified disposable ITO electrode: An analytical platform for p53 detection. <i>Biosensors and Bioelectronics</i> , 2018, 121, 80-89.	10.1	76
5	A disposable immunosensor using ITO based electrode modified by a star-shaped polymer for analysis of tumor suppressor protein p53 in human serum. <i>Biosensors and Bioelectronics</i> , 2018, 107, 1-9.	10.1	62
6	Selective and ultrasensitive electrochemical immunosensing of NSE cancer biomarker in human serum using epoxy-substituted poly(pyrrole) polymer modified disposable ITO electrode. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127613.	7.8	61
7	Highly sensitive electrochemical immunosensor based on polythiophene polymer with densely populated carboxyl groups as immobilization matrix for detection of interleukin 1 β in human serum and saliva. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 18-27.	7.8	53
8	A novel electrochemical immunosensor based on acetylene black/epoxy-substituted-polypyrrole polymer composite for the highly sensitive and selective detection of interleukin 6. <i>Talanta</i> , 2021, 222, 121596.	5.5	48
9	Electrochemical immunosensor for CDH22 biomarker based on benzaldehyde substituted poly(phosphazene) modified disposable ITO electrode: A new fabrication strategy for biosensors. <i>Biosensors and Bioelectronics</i> , 2019, 126, 230-239.	10.1	47
10	Synthesis and characterization of poly(3-thiophene acetic acid)/Fe ₃ O ₄ nanocomposite. <i>Polyhedron</i> , 2011, 30, 1120-1126.	2.2	38
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. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130355.	7.8	36
12	Advances in electrochemical immunosensors. <i>Advances in Clinical Chemistry</i> , 2019, 92, 1-57.	3.7	31
13	Advances in immunosensor technology. <i>Advances in Clinical Chemistry</i> , 2021, 102, 1-62.	3.7	31
14	A sensitive and selective approach for detection of IL 1 β cancer biomarker using disposable ITO electrode modified with epoxy-substituted polythiophene polymer. <i>Biosensors and Bioelectronics</i> , 2019, 144, 111675.	10.1	30
15	Synthesis, magnetic and electrical characteristics of poly(2-thiophen-3-yl-malonic acid)/Fe ₃ O ₄ nanocomposite. <i>Journal of Alloys and Compounds</i> , 2012, 514, 45-53.	5.5	29
16	A Highly Selective Poly(thiophene)-graft-Poly(methacrylamide) Polymer Modified ITO Electrode for Neuron Specific Enolase Detection in Human Serum. <i>Macromolecular Bioscience</i> , 2019, 19, e1900109.	4.1	29
17	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. <i>Talanta</i> , 2021, 222, 121487.	5.5	29
18	The development of an ultra-sensitive electrochemical immunosensor using a PPy-NHS functionalized disposable ITO sheet for the detection of interleukin 6 in real human serums. <i>New Journal of Chemistry</i> , 2020, 44, 14228-14238.	2.8	27

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19	A polythiophene derivative bearing two electroactive groups per monomer as a cathode material for rechargeable batteries. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2275-2281.	2.5	23
20	New Impedimetric Sandwich Immunosensor for Ultrasensitive and Highly Specific Detection of Spike Receptor Binding Domain Protein of SARS-CoV-2. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3874-3885.	5.2	22
21	Ultrasensitive determination of cadherin-like protein 22 with a label-free electrochemical immunosensor using brush type poly(thiophene-g-glycidylmethacrylate) modified disposable ITO electrode. <i>Talanta</i> , 2019, 200, 387-397.	5.5	21
22	Construction of succinimide group substituted polythiophene polymer functionalized sensing platform for ultrasensitive detection of KLK 4 cancer biomarker. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128788.	7.8	18
23	Biosensors in Drug Discovery and Drug Analysis. <i>Current Analytical Chemistry</i> , 2019, 15, 467-484.	1.2	17
24	Pyrene- ϵ -functional star polymers as fluorescent probes for nitrophenolic compounds. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46310.	2.6	15
25	Determination of calreticulin using Fe ₃ O ₄ @AuNPs core-shell functionalized with PT(COOH) ₂ polymer modified electrode: A new platform for the impedimetric biosensing of cancer biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132099.	7.8	14
26	Phosphazene-cored star polymer bearing redox-active side groups as a cathode-active material in Li-ion batteries. <i>Reactive and Functional Polymers</i> , 2016, 102, 11-19.	4.1	11
27	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. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 492-506.	3.3	8
28	Biosensors and the evaluation of food contaminant biosensors in terms of their performance criteria. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 602-622.	3.3	8
29	Label-free and reagent-less electrochemical detection of nucleocapsid protein of SARS-CoV-2: an ultrasensitive and disposable biosensor. <i>New Journal of Chemistry</i> , 2022, 46, 9172-9183.	2.8	8
30	A label-free immunosensor for sensitive detection of RACK 1 cancer biomarker based on conjugated polymer modified ITO electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 190, 113517.	2.8	6
31	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. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1192-1201.	5.2	6
32	Ultrasensitive and Selective Impedimetric Determination of Prostate Specific Membrane Antigen Based on Di- ϵ -Succinimide Functionalized Polythiophene Covered Cost-Effective Indium Tin Oxide. <i>Macromolecular Bioscience</i> , 2021, 21, e2100173.	4.1	5
33	Electrochemical Immunosensor for Detection of CCR4 Cancer Biomarker in Human Serum: An Alternative Strategy for Modification of Disposable ITO Electrode. <i>Macromolecular Bioscience</i> , 2021, 21, e2000267.	4.1	4
34	A Label-free Electrochemical Immunosensor for Highly Sensitive Detection of TNF $\hat{\pm}$, Based on Star Polymer-modified disposable ITO Electrode. <i>Current Pharmaceutical Analysis</i> , 2021, 17, 450-459.	0.6	3
35	Immobilization Techniques of Nanomaterials. , 2019, , 47-78.		1
36	A new, sensitive and disposable electrochemical immunosensor based on Benzaldehyde side group containing phosphazene polymer modified ITO substrate for Interleukin 1 $\hat{2}$ detection. <i>Hacettepe Journal of Biology and Chemistry</i> , 2019, 47, 305-315.	0.9	1

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37	Paper-based devices. , 2020, , 107-166.		0