

Dilek Odaci Demirkol

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85 papers	1,823 citations	29 h-index	37 g-index
86 ext. papers	1,989 ext. citations	5 avg, IF	4.93 L-index

#	Paper	IF	Citations
85	Polypeptide Functional Surface for the Aptamer Immobilization: Electrochemical Cocaine Biosensing. <i>Analytical Chemistry</i> , 2016 , 88, 4161-7	7.8	81
84	Current trends in the development of conducting polymers-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 118, 264-276	14.6	72
83	Modification of polysulfones by click chemistry: Amphiphilic graft copolymers and their protein adsorption and cell adhesion properties. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 110-117	2.5	56
82	Nanostructured Amphiphilic Star-Hyperbranched Block Copolymers for Drug Delivery. <i>Langmuir</i> , 2015 , 31, 4542-51	4	53
81	Peptide-modified conducting polymer as a biofunctional surface: monitoring of cell adhesion and proliferation. <i>RSC Advances</i> , 2014 , 4, 53411-53418	3.7	48
80	PAMAM-functionalized water soluble quantum dots for cancer cell targeting. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11529		47
79	Biofunctional quantum dots as fluorescence probe for cell-specific targeting. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 96-103	6	44
78	Comparative investigation of spectroelectrochemical and biosensor application of two isomeric thienylpyrrole derivatives. <i>RSC Advances</i> , 2015 , 5, 52543-52549	3.7	43
77	Ferrocene-functionalized 4-(2,5-Di(thiophen-2-yl)-1H-pyrrol-1-yl)aniline: a novel design in conducting polymer-based electrochemical biosensors. <i>Sensors</i> , 2015 , 15, 1389-403	3.8	43
76	Gold nanoparticle modified conducting polymer of 4-(2,5-di(thiophen-2-yl)-1H-pyrrole-1-l) benzenamine for potential use as a biosensing material. <i>Food Chemistry</i> , 2011 , 127, 1317-22	8.5	42
75	Electrochemical deposition of polypeptides: bio-based covering materials for surface design. <i>Polymer Chemistry</i> , 2014 , 5, 3929-3936	4.9	41
74	Amine-intercalated montmorillonite matrices for enzyme immobilization and biosensing applications. <i>RSC Advances</i> , 2012 , 2, 2112	3.7	41
73	Chitosan-ferrocene film as a platform for flow injection analysis applications of glucose oxidase and Gluconobacter oxydans biosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 100, 62-8	6	41
72	Polythiophene-g-poly(ethylene glycol) with Lateral Amino Groups as a Novel Matrix for Biosensor Construction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20612-22	9.5	39
71	A novel organicoorganic hybrid conducting copolymer for mediated biosensor applications. <i>RSC Advances</i> , 2014 , 4, 46357-46362	3.7	39
70	An electrospun nanofiber matrix based on organo-clay for biosensors: PVA/PAMAM-Montmorillonite. <i>Applied Surface Science</i> , 2018 , 444, 542-551	6.7	37
69	pH responsive glycopolymer nanoparticles for targeted delivery of anti-cancer drugs. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 150-158	4.6	37

68	A novel functional conducting polymer as an immobilization platform. <i>Materials Science and Engineering C</i> , 2014 , 40, 148-56	8.3	35
67	A new set up for multi-analyte sensing: at-line bio-process monitoring. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4532-7	11.8	34
66	Polysulfone based amphiphilic graft copolymers by click chemistry as bioinert membranes. <i>Materials Science and Engineering C</i> , 2011 , 31, 1091-1097	8.3	33
65	Histidine modified montmorillonite: Laccase immobilization and application to flow injection analysis of phenols. <i>Applied Clay Science</i> , 2013 , 86, 64-69	5.2	32
64	The synthesis and targeting of PPP-type copolymers to breast cancer cells: Multifunctional platforms for imaging and diagnosis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9293		32
63	Enzyme immobilization in biosensor constructions: self-assembled monolayers of calixarenes containing thiols. <i>RSC Advances</i> , 2014 , 4, 19900-19907	3.7	31
62	Molybdenum oxide/platinum modified glassy carbon electrode: A novel electrocatalytic platform for the monitoring of electrochemical reduction of oxygen and its biosensing applications. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 331-336	8.5	31
61	Rhodamine-based conjugated polymers: potentiometric, colorimetric and voltammetric sensing of mercury ions in aqueous medium. <i>Analyst, The</i> , 2017 , 142, 3407-3415	5	30
60	Modified gold surfaces by 6-(ferrocenyl)hexanethiol/dendrimer/gold nanoparticles as a platform for the mediated biosensing applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 634-40	8.3	30
59	Controlled release of anticancer drug Paclitaxel using nano-structured amphiphilic star-hyperbranched block copolymers. <i>Polymer Chemistry</i> , 2015 , 6, 5470-5477	4.9	29
58	Folic acid-modified clay: targeted surface design for cell culture applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 522-528	7.3	29
57	Modified gold surfaces by poly(amidoamine) dendrimers and fructose dehydrogenase for mediated fructose sensing. <i>Talanta</i> , 2011 , 87, 67-73	6.2	29
56	Bioapplications of Polythiophene-g-Polyphenylalanine-Covered Surfaces. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 1868-1878	2.6	26
55	Offline glucose biomonitoring in yeast culture by polyamidoamine/cysteamine-modified gold electrodes. <i>Biotechnology Progress</i> , 2011 , 27, 530-8	2.8	26
54	A sandwich-type assay based on quantum dot/aptamer bioconjugates for analysis of E. Coli O157:H7 in microtiter plate format. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016 , 65, 85-90	3	25
53	Use of Super-Structural Conducting Polymer as Functional Immobilization Matrix in Biosensor Design. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B22-B26	3.9	24
52	Synthesis of an amine-functionalized naphthalene-containing conducting polymer as a matrix for biomolecule immobilization. <i>RSC Advances</i> , 2013 , 3, 19582	3.7	24
51	A conducting polymer with benzothiadiazole unit: cell based biosensing applications and adhesion properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 97, 13-8	6	24

50	4-aminothiophenol-intercalated montmorillonite: Organic-inorganic hybrid material as an immobilization support for biosensors. <i>Sensors and Actuators B: Chemical</i> , 2020 , 307, 127665	8.5	23
49	Application of Biofunctionalized Magnetic Nanoparticles Based-Sensing in Abused Drugs Diagnostics. <i>Analytical Chemistry</i> , 2020 , 92, 1033-1040	7.8	22
48	Selective Cell Adhesion and Biosensing Applications of Bio-Active Block Copolymers Prepared by CuAAC/Thiol-ene Double Click Reactions. <i>Macromolecular Bioscience</i> , 2015 , 15, 1233-41	5.5	21
47	Calixarene modified montmorillonite: a novel design for biosensing applications. <i>RSC Advances</i> , 2014 , 4, 62895-62902	3.7	21
46	Cells-on-nanofibers: Effect of polyethyleneimine on hydrophobicity of poly- ϵ -caprolacton electrospun nanofibers and immobilization of bacteria. <i>Enzyme and Microbial Technology</i> , 2019 , 126, 24-31	3.8	20
45	A novel ethanol biosensor on pulsed deposited MnOx-MoOx electrode decorated with Pt nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016 , 237, 291-297	8.5	19
44	Biofunctionalization of PAMAM-montmorillonite decorated poly (ϵ -caprolactone)-chitosan electrospun nanofibers for cell adhesion and electrochemical cytosensing. <i>Biosensors and Bioelectronics</i> , 2018 , 109, 286-294	11.8	18
43	Copolymer based multifunctional conducting polymer film for fluorescence sensing of glucose. <i>Methods and Applications in Fluorescence</i> , 2018 , 6, 035012	3.1	17
42	SolGel/Chitosan/Gold Nanoparticle-Modified Electrode in Mediated Bacterial Biosensor. <i>Food Analytical Methods</i> , 2012 , 5, 188-194	3.4	16
41	Polysulfone/pyrene membranes: a new microwell assay platform for bioapplications. <i>Macromolecular Bioscience</i> , 2011 , 11, 1235-43	5.5	16
40	Amino acid intercalated montmorillonite: electrochemical biosensing applications. <i>RSC Advances</i> , 2014 , 4, 50107-50113	3.7	15
39	Photochemically prepared polysulfone/poly(ethylene glycol) amphiphilic networks and their biomolecule adsorption properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 88, 265-70	6	15
38	Chitosan matrices modified with carbon nanotubes for use in mediated microbial biosensing. <i>Mikrochimica Acta</i> , 2011 , 173, 537-542	5.8	15
37	Design of Carbon Nanotube Modified Conducting Polymer for Biosensing Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2011 , 48, 503-508	2.2	15
36	Rhodamine functionalized conducting polymers for dual intention: electrochemical sensing and fluorescence imaging of cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7118-7125	7.3	14
35	Complex Structured Fluorescent Polythiophene Graft Copolymer as a Versatile Tool for Imaging, Targeted Delivery of Paclitaxel, and Radiotherapy. <i>Biomacromolecules</i> , 2016 , 17, 2399-408	6.9	13
34	Surface Modification with a Catechol-Bearing Polypeptide and Sensing Applications. <i>Biomacromolecules</i> , 2018 , 19, 3067-3076	6.9	13
33	Microfluidic devices and true-color sensor as platform for glucose oxidase and laccase assays. <i>Engineering in Life Sciences</i> , 2011 , 11, 182-188	3.4	13

32	Brilliant green sequestered poly(amic) acid film for dual-mode detection: Fluorescence and electrochemical enzymatic biosensor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 71-78	8.5	12
31	Polyglycolide-chitosan/montmorillonite as a novel nanocomposite platform for biosensing applications. <i>New Journal of Chemistry</i> , 2017 , 41, 9371-9379	3.6	12
30	Affinity Based Laccase Immobilization on Modified Magnetic Nanoparticles: Biosensing Platform for the Monitoring of Phenolic Compounds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015 , 64, 260-266	3	12
29	New Amperometric Cholesterol Biosensors Using Poly(ethyleneoxide) Conducting Polymers. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013 , 50, 1075-1084	2.2	12
28	Caffeic Acid Detection Using an Inhibition-Based Lipoxxygenase Sensor. <i>Food Analytical Methods</i> , 2012 , 5, 244-249	3.4	11
27	"Biomimetic-electrochemical-sensory-platform" for biomolecule free cocaine testing. <i>Materials Science and Engineering C</i> , 2018 , 90, 211-218	8.3	9
26	Functional Surfaces Constructed with Hyperbranched Copolymers as Optical Imaging and Electrochemical Cell Sensing Platforms. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700433	2.6	9
25	CTAB modified chitosan: A novel support for enzyme immobilization in bio-based electrochemical detection and its in vitro antimicrobial activity. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 46-55	8.5	9
24	Biosensing Applications of Modified Core-Shell Magnetic Nanoparticles. <i>Food Analytical Methods</i> , 2012 , 5, 731-736	3.4	9
23	Folic-Acid-Modified Conducting Polymer: Electrochemical Detection of the Cell Attachment. <i>Macromolecular Bioscience</i> , 2016 , 16, 545-52	5.5	8
22	Modification of polydivinylbenzene microspheres by a hydrobromination/click-chemistry protocol and their protein-adsorption properties. <i>Macromolecular Bioscience</i> , 2011 , 11, 141-50	5.5	8
21	Cellulose acetate-chitosan based electrospun nanofibers for bio-functionalized surface design in biosensing. <i>Cellulose</i> , 2020 , 27, 10183-10197	5.5	8
20	High generation dendrimer decorated poly-L-lactide/polyacrylic acid electrospun nanofibers for the design of a bioelectrochemical sensing surface. <i>Reactive and Functional Polymers</i> , 2021 , 161, 104853	4.6	8
19	Poly(p-phenylene) with Poly(ethylene glycol) Chains and Amino Groups as a Functional Platform for Controlled Drug Release and Radiotherapy. <i>Macromolecular Bioscience</i> , 2016 , 16, 730-7	5.5	8
18	Modified Gold Surfaces with Gold Nanoparticles and 6-(Ferrocenyl)hexanethiol: Design of a Mediated Microbial Sensor. <i>Electroanalysis</i> , 2015 , 27, 52-57	3	7
17	Functional poly(p-phenylene)s as targeting and drug carrier materials. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016 , 65, 653-659	3	6
16	Comparative cell adhesion properties of cysteine extended peptide architectures. <i>RSC Advances</i> , 2016 , 6, 2695-2702	3.7	5
15	Bioconjugation and Applications of Amino Functional Fluorescence Polymers. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600232	5.5	5

14	Testing of bioactive-nanovesicles on hepatotoxicity of atypical antipsychotics via digital holography. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 152, 289-295	6	4
13	Biofunctionalized nanomaterials for targeting cancer cells 2017 , 51-86		4
12	Novel fluorescence assay using μ -wells coated by BODIPY dye as an enzymatic sensing platform. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 135, 145-150	4.6	4
11	Laccase assay based on electrochemistry and fluorescence detection via anthracene sequestered poly(amic acid) films. <i>Reactive and Functional Polymers</i> , 2018 , 131, 36-43	4.6	3
10	Oligomeric Thiosemicarbazones as Novel Immobilization Matrix in Biosensing Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013 , 50, 392-398	2.2	3
9	Isolation and Immobilization of His-Tagged Alcohol Dehydrogenase on Magnetic Nanoparticles in One Step: Application as Biosensor Platform. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014 , 51, 699-705	2.2	3
8	Carbon Nanotube Modified Screen Printed Electrodes: Pyranose Oxidase Immobilization Platform for Amperometric Enzyme Sensors. <i>Journal of Natural and Applied Sciences</i> , 2017 , 21, 286	0	2
7	Electrospun Nanofibers: Functional and Attractive Materials for the Sensing and Separation Approaches in Analytical Chemistry 2019 , 134-178		2
6	Graphene oxide incorporated polystyrene electrospun nanofibers for immunosensing of CD36 as a marker of diabetic plasma.. <i>Bioelectrochemistry</i> , 2022 , 145, 108083	5.6	1
5	Bienzymatic fluorescence detection based on paraoxonase and laccase on anthracene-sequestered polyamic acid films: A novel approach for inhibition-based sensors. <i>Materials Today Communications</i> , 2020 , 25, 101672	2.5	1
4	Preparation of glutathione loaded nanoemulsions and testing of hepatoprotective activity on THLE-2 cells. <i>Turkish Journal of Chemistry</i> , 2021 , 45, 436-451	1	1
3	Targeting and imaging of cancer cells using nanomaterials 2016 , 209-251		1
2	Catalase-conjugated surfaces: H ₂ O ₂ detection based on quenching of tryptophan fluorescence on conducting polymers. <i>European Polymer Journal</i> , 2021 , 142, 110130	5.2	1
1	Magnetic Nanofiber Layers as a Functional Surface for Biomolecule Immobilization and One-Use Sensing in-a-Drop Applications. <i>ChemistrySelect</i> , 2018 , 3, 13553-13560	1.8	1