# Filiz Kuralay

## List of Publications by Year in descending order



| | | | |
|---|---|---|---|
| 65 papers | 2,519 citations | 218677 26 h-index | 197818 49 g-index |
| 67 all docs | 67 docs citations | 67 times ranked | 2944 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Functionalized Ultrasound-Propelled Magnetically Guided Nanomotors: Toward Practical Biomedical Applications. ACS Nano, 2013, 7, 9232-9240. | 14.6 | 386 |
| 2 | Functionalized Micromachines for Selective and Rapid Isolation of Nucleic Acid Targets from Complex Samples. Nano Letters, 2011, 11, 2083-2087. | 9.1 | 216 |
| 3 | Ultrasoundâ€Propelled Nanoporous Gold Wire for Efficient Drug Loading and Release. Small, 2014, 10, 4154-4159. | 10.0 | 196 |
| 4 | A Selfâ€Powered â€œSenseâ€Actâ€Treatâ€•System that is Based on a Biofuel Cell and Controlled by Boolean Logic. Angewandte Chemie - International Edition, 2012, 51, 2686-2689. | 13.8 | 139 |
| 5 | Self-Propelled Carbohydrate-Sensitive Microtransporters with Built-In Boronic Acid Recognition for Isolating Sugars and Cells. Journal of the American Chemical Society, 2012, 134, 15217-15220. | 13.7 | 125 |
| 6 | Electrochemical bacterial detection using poly(3-aminophenylboronic acid)-based imprinted polymer. Biosensors and Bioelectronics, 2017, 93, 87-93. | 10.1 | 117 |
| 7 | Ternary monolayers as DNA recognition interfaces for direct and sensitive electrochemical detection in untreated clinical samples. Biosensors and Bioelectronics, 2011, 26, 3577-3583. | 10.1 | 110 |
| 8 | Potentiometric enzyme electrode for urea determination using immobilized urease in poly(vinylferrocenium) film. Sensors and Actuators B: Chemical, 2005, 109, 194-199. | 7.8 | 78 |
| 9 | Carbon nanotubeâ€“chitosan modified disposable pencil graphite electrode for Vitamin B12 analysis. Colloids and Surfaces B: Biointerfaces, 2011, 87, 18-22. | 5.0 | 66 |
| 10 | Amperometric enzyme electrode for urea determination using immobilized urease in poly(vinylferrocenium) film. Sensors and Actuators B: Chemical, 2006, 114, 500-506. | 7.8 | 65 |
| 11 | Preparation and characterization of zinc oxide nanoparticles and their sensor applications for electrochemical monitoring of nucleic acid hybridization. Colloids and Surfaces B: Biointerfaces, 2011, 86, 397-403. | 5.0 | 61 |
| 12 | Disposable pencil graphite electrode modified with peptide nanotubes for Vitamin B12 analysis. Applied Surface Science, 2014, 303, 37-45. | 6.1 | 48 |
| 13 | Inhibitive determination of Hg2+ ion by an amperometric urea biosensor using poly(vinylferrocenium) film. Enzyme and Microbial Technology, 2007, 40, 1156-1159. | 3.2 | 45 |
| 14 | Highly sensitive disposable nucleic acid biosensors for direct bioelectronic detection in raw biological samples. Talanta, 2011, 85, 1330-1337. | 5.5 | 45 |
| 15 | Constant Current Chronopotentiometry and Voltammetry of Native and Denatured Serum Albumin at Mercury and Carbon Electrodes. Electroanalysis, 2008, 20, 1406-1413. | 2.9 | 38 |
| 16 | A novel polypyrroleâ€“phenylboronic acid based electrochemical saccharide sensor. Sensors and Actuators B: Chemical, 2011, 160, 405-411. | 7.8 | 37 |
| 17 | Greatly extended storage stability of electrochemical DNA biosensors using ternary thiolated self-assembled monolayers. Talanta, 2012, 99, 155-160. | 5.5 | 37 |
| 18 | Goldâ€“Nickel Nanowires as Nanomotors for Cancer Marker Biodetection and Chemotherapeutic Drug Delivery. ACS Applied Nano Materials, 2021, 4, 3377-3388. | 5.0 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A novel design thia-bilane structure-based molecular imprinted electrochemical sensor for sensitive and selective dopamine determination. Sensors and Actuators B: Chemical, 2021, 346, 130425. | 7.8 | 35 |
| 20 | Tin oxide nanoparticles-polymer modified single-use sensors for electrochemical monitoring of label-free DNA hybridization. Talanta, 2010, 82, 1680-1686. | 5.5 | 34 |
| 21 | Poly(3,4-ethylenedioxythiophene) coated chitosan modified disposable electrodes for DNA and DNAâ€“drug interaction sensing. Colloids and Surfaces B: Biointerfaces, 2014, 123, 825-830. | 5.0 | 34 |
| 22 | Polymer/carbon nanotubes coated graphite surfaces for highly sensitive nitrite detection. Talanta, 2015, 144, 1133-1138. | 5.5 | 34 |
| 23 | Poly(vinylferrocenium) coated disposable pencil graphite electrode for DNA hybridization. Electrochemistry Communications, 2009, 11, 1242-1246. | 4.7 | 32 |
| 24 | Sensitive sepiolite-carbon nanotubes based disposable electrodes for direct detection of DNA and anticancer drugâ€“DNA interactions. Analyst, The, 2012, 137, 4001. | 3.5 | 31 |
| 25 | Biosensing applications of titanium dioxide coated graphene modified disposable electrodes. Talanta, 2016, 160, 325-331. | 5.5 | 31 |
| 26 | Preparation and physical/electrochemical characterization of carbon nanotubeâ€“chitosan modified pencil graphite electrode. Applied Surface Science, 2010, 257, 622-627. | 6.1 | 30 |
| 27 | Polyâ€Lâ€lysine Coated Surfaces for Ultrasensitive Nucleic Acid Detection. Electroanalysis, 2018, 30, 1556-1565. | 2.9 | 27 |
| 28 | Electrochemical Biosensing of DNA Immobilized Poly(Vinylferrocenium) Modified Electrode. Electroanalysis, 2008, 20, 2563-2570. | 2.9 | 26 |
| 29 | Characterization of redox polymer based electrode and electrochemical behavior for DNA detection. Analytica Chimica Acta, 2009, 643, 83-89. | 5.4 | 25 |
| 30 | Current status of micro/nanomotors in drug delivery. Journal of Drug Targeting, 2021, 29, 29-45. | 4.4 | 25 |
| 31 | Single-walled carbon nanotubes-polymer modified graphite electrodes for DNA hybridization. Colloids and Surfaces B: Biointerfaces, 2012, 91, 77-83. | 5.0 | 24 |
| 32 | Synergistic tungsten oxide/organic framework hybrid nanofibers for electrochromic device application. Optical Materials, 2017, 70, 171-179. | 3.6 | 22 |
| 33 | Highly sensitive and selective dopamine sensing in biological fluids with one-pot prepared graphene/poly(o-phenylenediamine) modified electrodes. Materials Chemistry and Physics, 2019, 228, 357-362. | 4.0 | 22 |
| 34 | Indicator-based and indicator-free magnetic assays connected with disposable electrochemical nucleic acid sensor system. Talanta, 2009, 78, 187-192. | 5.5 | 19 |
| 35 | Preparation of gold nanoparticles/single-walled carbon nanotubes/polyaniline composite-coated electrode developed for DNA detection. Polymer Bulletin, 2015, 72, 3135-3146. | 3.3 | 18 |
| 36 | Interaction of Mitomycin C with DNA Immobilized onto Singleâ€walled Carbon Nanotube/Polymer Modified Pencil Graphite Electrode. Electroanalysis, 2011, 23, 2343-2349. | 2.9 | 17 |

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|---|---|---|---|
| 37 | RF plasma-enhanced conducting Polymer/W5O14 based self-propelled micromotors for miRNA detection. Analytica Chimica Acta, 2020, 1138, 69-78. | 5.4 | 14 |
| 38 | Electroactive polyglycine coatings for nanobiosensing applications: Label-free DNA hybridization, DNA-Antitumor agent interaction and antitumor agent determination. Analytica Chimica Acta, 2019, 1072, 15-24. | 5.4 | 13 |
| 39 | MoS2/Chitosan/GOx-Gelatin modified graphite surface: Preparation, characterization and its use for glucose determination. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 270, 115215. | 3.5 | 13 |
| 40 | Characterization of poly(vinylferrocenium) coated surfaces and their applications in DNA sensor technology. Journal of Applied Electrochemistry, 2010, 40, 2039-2050. | 2.9 | 11 |
| 41 | The Recent Electrochemical Biosensor Technologies for Monitoring of Nucleic Acid Hybridization. Current Analytical Chemistry, 2011, 7, 63-70. | 1.2 | 11 |
| 42 | Cibacron Blue F3GA modified disposable pencil graphite electrode for the investigation of affinity binding to bovine serum albumin. Colloids and Surfaces B: Biointerfaces, 2013, 110, 270-274. | 5.0 | 10 |
| 43 | Electrochemical characterization of redox polymer modified electrode developed for monitoring of adenine. Colloids and Surfaces B: Biointerfaces, 2013, 105, 1-6. | 5.0 | 10 |
| 44 | Fabrication of a Polyaniline Ultramicroelectrode via a Self Assembled Monolayer Modified Gold Electrode. Sensors, 2013, 13, 8079-8094. | 3.8 | 8 |
| 45 | Preparation of self-propelled Cu-Pt micromotors and their application in miRNA monitoring. Turkish Journal of Chemistry, 2018, 42, 1744-1754. | 1.2 | 8 |
| 46 | Electrochemical Determination of Mitomycin C and Its Interaction with Double-Stranded DNA Using a Poly(o-phenylenediamine)-Multi-Walled Carbon Nanotube Modified Pencil Graphite Electrode. Analytical Letters, 2021, 54, 1295-1308. | 1.8 | 8 |
| 47 | Chitosan functionalized gold-nickel bimetallic magnetic nanomachines for motion-based deoxyribonucleic acid recognition. International Journal of Biological Macromolecules, 2021, 193, 370-377. | 7.5 | 8 |
| 48 | Polypyrroleâ€Based Nanohybrid Electrodes: Their Preparation and Potential Use for DNA Recognition and Paclitaxel Quantification. ChemistrySelect, 2020, 5, 4708-4714. | 1.5 | 7 |
| 49 | Nucleic Acid Integrated Technologies for Electrochemical Pointâ€ofâ€Care Diagnostics: A Comprehensive Review. Electroanalysis, 2022, 34, 148-160. | 2.9 | 7 |
| 50 | Fabrication of selfâ€functionalized polymeric surfaces and their application in electrochemical acetaminophen detection. Journal of Applied Polymer Science, 2020, 137, 49572. | 2.6 | 6 |
| 51 | Designing functional materials: DNA/Poly(3,4-ethylenedioxythiophene) interfaces for advanced DNA direct electrochemistry and DNA-Drug interaction detection. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115382. | 3.5 | 6 |
| 52 | Electrochemistry of poly(5-phenyl dipyrromethane) and its characterization. Polymer Bulletin, 2015, 72, 867-879. | 3.3 | 5 |
| 53 | Hybrid Metallic Nanoparticles: Enhanced Bioanalysis and Biosensing via Carbon Nanotubes, Graphene, and Organic Conjugation. , 2015, , 137-166. | | 5 |
| 54 | Graphene supported poly(3-aminophenylboronic acid) surface via constant potential electrolysis for facile and sensitive paracetamol determination. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 633, 127846. | 4.7 | 5 |

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|---|---|---|---|
| 55 | Platinum nanoparticles loaded carbon black: reduced graphene oxide hybrid platforms for label-free electrochemical DNA and oxidative DNA damage sensing. Journal of Electroanalytical Chemistry, 2022, 910, 116180. | 3.8 | 5 |
| 56 | Electrochemical DNA Detection Using Carbon Nanotubes. Current Physical Chemistry, 2011, 1, 325-333. | 0.2 | 4 |
| 57 | DNA Biosensors. Nanostructure Science and Technology, 2014, , 313-330. | 0.1 | 3 |
| 58 | Poly(vinylferrocene)/Cellulose Acetate Fibers: A New Approach for In-Situ Monitoring Process Through QCM and Electrospinning Studies. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 544-550. | 3.7 | 3 |
| 59 | WS2 integrated PEDOT:PSS interface as a sensitive and selective voltammetric epirubicin detection platform and a functional actuator. Surfaces and Interfaces, 2022, 30, 101839. | 3.0 | 3 |
| 60 | Determination of hydrogen peroxide with an enzymeless amperometric sensor based on poly(vinylferrocene)-supported Ag nanoparticles. Turkish Journal of Chemistry, 2018, 42, 1755-1767. | 1.2 | 2 |
| 61 | Ultrathin polypyrrole films on <scp>selfâ€assembled</scp> monolayers as an efficient ultramicroelectrode assay. Journal of Applied Polymer Science, 2020, 137, 49313. | 2.6 | 2 |
| 62 | Direct Electrochemistry and Sensitive Detection of Guanosine on Nanopolymeric Surfaces Bearing Boronic Acid Groups. ChemistrySelect, 2020, 5, 9134-9142. | 1.5 | 1 |
| 63 | Electrochemical DNA Detection Using Carbon Nanotubes. Current Physical Chemistry, 2011, 1, 325-333. | 0.2 | 1 |
| 64 | Functionalized nanomaterial- based electrochemical sensors for point-of-care devices. , 2022, , 309-335. | | 1 |
| 65 | Achievements of Graphene and Its Derivatives Materials on Electrochemical Drug Assays and Drug-DNA Interactions.. Critical Reviews in Analytical Chemistry, 2021, , 1-22. | 3.5 | 0 |