List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | FRET-based aptamer biosensor for selective and sensitive detection of aflatoxin B1 in peanut and rice.<br>Food Chemistry, 2017, 220, 527-532.  | 8.2  | 195       |
| 2  | Visual detection of cancer cells by colorimetric aptasensor based on aggregation of gold nanoparticles induced by DNA hybridization. Analytica Chimica Acta, 2016, 904, 92-97.   | 5.4  | 152       |
| 3  | A Schiff Base Complex of Zn(II) as a Neutral Carrier for Highly Selective PVC Membrane Sensors for the Sulfate Ion. Analytical Chemistry, 2001, 73, 2869-2874.   | 6.5  | 123       |
| 4  | Fluorescence "turn-on―chemosensor for the selective detection of zinc ion based on Schiff-base<br>derivative. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 978-982.  | 3.9  | 122       |
| 5  | Lanthanum(III) PVC Membrane Electrodes Based on 1,3,5-Trithiacyclohexane. Analytical Chemistry, 2002,<br>74, 5538-5543.  | 6.5  | 100       |
| 6  | Novel gadolinium poly(vinyl chloride) membrane sensor based on a new S–N Schiff's base. Analytica<br>Chimica Acta, 2003, 495, 51-59.   | 5.4  | 95        |
| 7  | Novel terbium(III) sensor based on a new bis-pyrrolidene Schiff's base. Sensors and Actuators B:<br>Chemical, 2005, 105, 334-339.  | 7.8  | 91        |
| 8  | A selective optode membrane for silver ion based on fluorescence quenching of the<br>dansylamidopropyl pendant arm derivative of 1-aza-4,7,10-trithiacyclododecane ([12]aneNS3). Sensors<br>and Actuators B: Chemical, 2006, 113, 892-899.             | 7.8  | 85        |
| 9  | Novel fluorimetric bulk optode membrane based on a dansylamidopropyl pendant arm derivative of<br>1-aza-4,10-dithia-7-oxacyclododecane ([12]aneNS2O) for selective subnanomolar detection of Hg(II)<br>ions. Analytica Chimica Acta, 2005, 533, 17-24. | 5.4  | 84        |
| 10 | Label free colorimetric and fluorimetric direct detection of methylated DNA based on silver nanoclusters for cancer early diagnosis. Biosensors and Bioelectronics, 2015, 73, 108-113.   | 10.1 | 84        |
| 11 | Label-free fluorescent detection of microRNA-155 based on synthesis of hairpin DNA-templated copper<br>nanoclusters by etching (top-down approach). Sensors and Actuators B: Chemical, 2017, 248, 133-139.   | 7.8  | 77        |
| 12 | Highly Selective Iodide Membrane Electrode Based on a Cerium Salen. Analytical Sciences, 2002, 18,<br>289-292.   | 1.6  | 76        |
| 13 | Interaction study of pioglitazone with albumin by fluorescence spectroscopy and molecular docking.<br>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 96-101.   | 3.9  | 76        |
| 14 | Novel Gadolinium PVC-Based Membrane Sensor Based on Omeprazole as an Antibiotic. Electroanalysis,<br>2003, 15, 1038-1042.  | 2.9  | 75        |
| 15 | Novel Dy(III) Sensor Based on a New Bis-Pyrrolidene Schiff's Base. Electroanalysis, 2004, 16, 1771-1776.   | 2.9  | 75        |
| 16 | A turn-on fluorescent sensor for Zn2+ based on new Schiff's base derivative in aqueous media.<br>Sensors and Actuators B: Chemical, 2014, 198, 411-415.  | 7.8  | 73        |
| 17 | PVC-BASED 1,3,5-TRITHIANE COATED GRAPHITE ELECTRODE FOR DETERMINATION OF CERIUM(III) IONS.<br>Analytical Letters, 2001, 34, 2249-2261.   | 1.8  | 72        |
| 18 | Development of a new fluorimetric bulk optode membrane based on<br>2,5-thiophenylbis(5-tert-butyl-1,3-benzexazole) for nickel(II) ions. Analytica Chimica Acta, 2004, 501,<br>55-60.   | 5.4  | 71        |

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|----|---|-----|-----------|
| 19 | Fluorescence based turn-on strategy for determination of microRNA-155 using DNA-templated copper nanoclusters. Mikrochimica Acta, 2017, 184, 2671-2677.   | 5.0 | 70        |
| 20 | A Survey on Data Compression Methods for Biological Sequences. Information (Switzerland), 2016, 7, 56.  | 2.9 | 67        |
| 21 | A fluorometric aptamer based assay for cytochrome C using fluorescent graphitic carbon nitride<br>nanosheets. Mikrochimica Acta, 2017, 184, 2157-2163.  | 5.0 | 60        |
| 22 | Polymeric membrane and coated graphite samarium(III)-selective electrodes based on isopropyl<br>2-[(isopropoxycarbothioyl)disulfanyl]ethanethioate. Analytica Chimica Acta, 2003, 486, 93-99.   | 5.4 | 57        |
| 23 | PVC Membrane and Coated Graphite Potentiometric Sensors Based on Et4todit for Selective Determination of Samarium(III). Analytical Chemistry, 2003, 75, 5680-5686.  | 6.5 | 56        |
| 24 | Ho3+ carbon paste sensor based on multi-walled carbon nanotubes: Applied for determination of<br>holmium content in biological and environmental samples. Materials Science and Engineering C, 2010,<br>30, 555-560.                    | 7.3 | 51        |
| 25 | Rapid restriction enzyme free detection of DNA methyltransferase activity based on DNA-templated silver nanoclusters. Analytical and Bioanalytical Chemistry, 2016, 408, 4311-4318.   | 3.7 | 51        |
| 26 | PVC Membrane Potentiometric Sensor Based on 5-Pyridino-2,8-dithia[9](2,9)-1,10-phenanthroline- phane for Selective Determination of Neodymium(III). Analytical Chemistry, 2005, 77, 276-283.  | 6.5 | 50        |
| 27 | Selective recognition of monohydrogen phosphate by fluorescence enhancement of a new cerium complex. Analytica Chimica Acta, 2011, 708, 107-110.  | 5.4 | 50        |
| 28 | DNA methyltransferase activity detection based on graphene quantum dots using fluorescence and fluorescence anisotropy. Sensors and Actuators B: Chemical, 2017, 241, 217-223.  | 7.8 | 50        |
| 29 | A novel solid-state electrochemiluminescence sensor for detection of cytochrome c based on ceria<br>nanoparticles decoratedÂwith reduced graphene oxide nanocomposite. Analytical and Bioanalytical<br>Chemistry, 2016, 408, 7193-7202. | 3.7 | 49        |
| 30 | Novel Fluorometric Assay for Detection of Cysteine as a Reducing Agent and Template in Formation of Copper Nanoclusters. Journal of Fluorescence, 2017, 27, 529-536.  | 2.5 | 48        |
| 31 | A fluorescent aptasensor for sensitive analysis oxytetracycline based on silver nanoclusters.<br>Luminescence, 2016, 31, 1339-1343.   | 2.9 | 47        |
| 32 | A novel dichromate-sensitive fluorescent nano-chemosensor using new functionalized SBA-15.<br>Analytica Chimica Acta, 2012, 715, 80-85.   | 5.4 | 46        |
| 33 | A selective membrane electrode for iodide ion based on a thiopyrilium ion derivative as a new ionophore. Microchemical Journal, 2002, 72, 77-83.  | 4.5 | 45        |
| 34 | Medical ultrasound image compression using contextual vector quantization. Computers in Biology and Medicine, 2012, 42, 743-750.  | 7.0 | 45        |
| 35 | Novel coated-graphite membrane sensor based on N,N′-dimethylcyanodiaza-18-crown-6 for the determination of ultra-trace amounts of lead. Analytica Chimica Acta, 2002, 464, 181-186.   | 5.4 | 42        |
| 36 | A novel permanganate-sensitive fluorescent nano-chemosensor assembled with a new<br>8-hydroxyquinoline-functionalized SBA-15. Talanta, 2012, 88, 684-688.   | 5.5 | 38        |

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|----|--|-----|-----------|
| 37 | A Novel Label-Free microRNA-155 Detection on the Basis of Fluorescent Silver Nanoclusters. Journal of<br>Fluorescence, 2015, 25, 925-929.  | 2.5 | 38        |
| 38 | Novel erbium (III)-selective fluorimetric bulk optode. Sensors and Actuators B: Chemical, 2009, 142, 90-96.  | 7.8 | 37        |
| 39 | Selective recognition histidine and tryptophan by enhanced chemiluminescence ZnSe quantum dots.<br>Sensors and Actuators B: Chemical, 2015, 210, 349-354.  | 7.8 | 37        |
| 40 | An enhanced electrochemiluminescence sensor modified with a Ru(bpy)32+/Yb2O3 nanoparticle/nafion composite for the analysis of methadone samples. Materials Science and Engineering C, 2017, 76, 483-489.  | 7.3 | 33        |
| 41 | Determination of terbium in phosphate rock by Tb3+-selective fluorimetric optode based on dansyl derivative as a neutral fluorogenic ionophore. Analytica Chimica Acta, 2010, 664, 172-177.  | 5.4 | 32        |
| 42 | A Nanobiosensor Based on Fluorescent DNA-Hosted Silver Nanocluster and HCR Amplification for<br>Detection of MicroRNA Involved in Progression of Multiple Sclerosis. Journal of Fluorescence, 2017,<br>27, 1679-1685.  | 2.5 | 31        |
| 43 | A Novel Cobalt-Sensitive Fluorescent Chemosensor Based on Ligand Capped CdS Quantum Dots.<br>Journal of Fluorescence, 2015, 25, 613-619.   | 2.5 | 30        |
| 44 | The number of k-mer matches between two DNA sequences as a function of k and applications to estimate phylogenetic distances. PLoS ONE, 2020, 15, e0228070.  | 2.5 | 30        |
| 45 | Enhanced solid-state electrochemiluminescence of Ru(bpy) <sub>3</sub> <sup>2+</sup> with<br>nano-CeO <sub>2</sub> modified carbon paste electrode and its application in tramadol determination.<br>Analytical Methods, 2015, 7, 1936-1942.                      | 2.7 | 28        |
| 46 | Pyrophosphate Selective Recognition in Aqueous Solution Based on Fluorescence Enhancement of a<br>New Aluminium Complex. Journal of Fluorescence, 2011, 21, 1509-1513.   | 2.5 | 27        |
| 47 | A selective fluorescent bulk sensor for lutetium based on hexagonal mesoporous structures.<br>Sensors and Actuators B: Chemical, 2013, 184, 93-99.   | 7.8 | 26        |
| 48 | Selective recognition of Glutamate based on fluorescence enhancement of graphene quantum dot.<br>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 1962-1966.  | 3.9 | 26        |
| 49 | Highly Selective Ratiometric Fluorescent Sensor for La(III) Ion Based on a New Schiff's Base. Analytical<br>Letters, 2009, 42, 1029-1040.  | 1.8 | 25        |
| 50 | Novel selective optode membrane for terbium ion based on fluorescence quenching of the<br>2-(5-(dimethylamino) naphthalen-1-ylsulfonyl)-N-henylhydrazinecarbothioamid. Sensors and Actuators<br>B: Chemical, 2010, 147, 23-30.                                   | 7.8 | 25        |
| 51 | Highly selective ratiometric fluorescence determination of Eu3+ ion based on<br>(4E)-4-(2-phenyldiazenyl)-2-((E)-(2-aminoethylimino)methyl)phenol. Materials Science and Engineering C,<br>2010, 30, 929-933.  | 7.3 | 23        |
| 52 | A novel solid-state electrochemiluminescence sensor based on a<br>Ru(bpy) <sub>3</sub> <sup>2+</sup> /nano Sm <sub>2</sub> O <sub>3</sub> modified carbon paste<br>electrode for the determination of <scp>l</scp> -proline. RSC Advances, 2015, 5, 64669-64674. | 3.6 | 23        |
| 53 | Determination of Hg(II) ions in water samples by a novel Hg(II) sensor, based on calix[4]arene derivative. International Journal of Environmental Analytical Chemistry, 2009, 89, 407-422.   | 3.3 | 22        |
| 54 | Copper nanoclusterâ€enhanced luminol chemiluminescence for highâ€selectivity sensing of tryptophan and phenylalanine. Luminescence, 2017, 32, 1045-1050.   | 2.9 | 22        |

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|----|--|-----|-----------|
| 55 | Lanthanide recognition: A dysprosium(III) selective fluorimetric bulk optode. Sensors and Actuators B:<br>Chemical, 2012, 171-172, 644-651.  | 7.8 | 21        |
| 56 | Fast Removal of Methylene Blue from Aqueous Solution Using Magnetic-Modified Fe3O4<br>Nanoparticles. Journal of Environmental Engineering, ASCE, 2015, 141, .  | 1.4 | 21        |
| 57 | Disulfide-induced self-assembled targets: A novel strategy for the label free colorimetric detection of DNAs/RNAs via unmodified gold nanoparticles. Scientific Reports, 2017, 7, 45837.                         | 3.3 | 21        |
| 58 | Selective recognition of acetate ion based on fluorescence enhancement chemosensor. Luminescence, 2012, 27, 341-345.   | 2.9 | 20        |
| 59 | Enhanced chemiluminescence CdSe quantum dots by histidine and tryptophan. Spectrochimica Acta -<br>Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 629-633.  | 3.9 | 20        |
| 60 | Cryfa: a secure encryption tool for genomic data. Bioinformatics, 2019, 35, 146-148.   | 4.1 | 19        |
| 61 | A novel ratiometric fluorescent Yb3+ sensor based on a<br>N′-(1-oxoacenaphthylen-2(1H)-ylidene)furan-2-carbohydrazide as a suitable fluorophore. Materials<br>Science and Engineering C, 2010, 30, 348-351.      | 7.3 | 18        |
| 62 | A novel europium-sensitive fluorescent nano-chemosensor based on new functionalized magnetic<br>core–shell Fe3O4@SiO2 nanoparticles. Talanta, 2013, 115, 271-276.  | 5.5 | 18        |
| 63 | An Apta-Biosensor for Colon Cancer Diagnostics. Sensors, 2015, 15, 22291-22303.  | 3.8 | 18        |
| 64 | Rapid pre-symptomatic recognition of tristeza viral RNA by a novel fluorescent self-dimerized<br>DNA–silver nanocluster probe. RSC Advances, 2016, 6, 99437-99443.   | 3.6 | 17        |
| 65 | PVC Membrane and Coated Graphite Potentiometric Sensors Based on Dibenzoâ€⊋1 rownâ€7 for Selective<br>Determination of Rubidium Ions. Analytical Letters, 2005, 38, 573-588.                                     | 1.8 | 16        |
| 66 | Fluorescence "Turn-On―chemosensor for the selective detection of beryllium. Spectrochimica Acta -<br>Part A: Molecular and Biomolecular Spectroscopy, 2011, 83, 161-164.   | 3.9 | 16        |
| 67 | Selective recognition of dysprosium(III) ions by enhanced chemiluminescence CdSe quantum dots.<br>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 116-120.                     | 3.9 | 16        |
| 68 | Detection of p53 Gene Mutation (Single-Base Mismatch) Using a Fluorescent Silver Nanoclusters.<br>Journal of Fluorescence, 2017, 27, 1443-1448.  | 2.5 | 16        |
| 69 | A novel Lu3+ fluorescent nano-chemosensor using new functionalized mesoporous structures.<br>Analytica Chimica Acta, 2013, 771, 95-101.  | 5.4 | 15        |
| 70 | Speciation of Chromium in Water Samples with Homogeneous Liquid-Liquid Extraction and<br>Determination by Flame Atomic Absorption Spectrometry. Bulletin of the Korean Chemical Society,<br>2010, 31, 2813-2818. | 1.9 | 14        |
| 71 | Metagenomic Composition Analysis of an Ancient Sequenced Polar Bear Jawbone from Svalbard. Genes, 2018, 9, 445.  | 2.4 | 13        |
| 72 | Smash++: an alignment-free and memory-efficient tool to find genomic rearrangements. GigaScience, 2020, 9, .   | 6.4 | 13        |

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|----|--|-----|-----------|
| 73 | A Reference-Free Lossless Compression Algorithm for DNA Sequences Using a Competitive Prediction of Two Classes of Weighted Models. Entropy, 2019, 21, 1074.   | 2.2 | 12        |
| 74 | Synthesis and Assessment of DNA/Silver Nanoclusters Probes for Optimal and Selective Detection of Tristeza Virus Mild Strains. Journal of Fluorescence, 2016, 26, 1795-1803.   | 2.5 | 11        |
| 75 | AC: A Compression Tool for Amino Acid Sequences. Interdisciplinary Sciences, Computational Life Sciences, 2019, 11, 68-76.   | 3.6 | 10        |
| 76 | A study of quenching and enhancing effects of some amino acids on peroxyoxalate chemiluminescence<br>of rhodamine 6G. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 72,<br>484-489.                     | 3.9 | 9         |
| 77 | Sensitive determination of carbidopa through the electrochemiluminescence of luminol at grapheneâ€modified electrodes. Luminescence, 2015, 30, 376-381.  | 2.9 | 9         |
| 78 | Spectroscopic Study of CpG Alternating DNA-Methylene Blue Interaction for Methylation Detection.<br>Journal of Fluorescence, 2016, 26, 1123-1129.  | 2.5 | 9         |
| 79 | Highly Selective and Sensitive Tin(II) Membrane Electrode Based on a New Synthesized Schiff's Base.<br>Electroanalysis, 2009, 21, 859-866.   | 2.9 | 8         |
| 80 | Holmium(III)-selective fluorimetric optode based on N,N-bis(salicylidene)-naphthylene-1,8-diamine as a<br>neutral fluorogenic ionophore. Spectrochimica Acta - Part A: Molecular and Biomolecular<br>Spectroscopy, 2014, 121, 224-229. | 3.9 | 8         |
| 81 | GeCo2: An Optimized Tool for Lossless Compression and Analysis of DNA Sequences. Advances in<br>Intelligent Systems and Computing, 2020, , 137-145.  | 0.6 | 7         |
| 82 | The fast peroxyoxalate-chemiluminescence of 3-1-aza-4,10-dithia-7-oxacyclododecane as a novel fluorophore. Journal of Luminescence, 2012, 132, 2126-2129.  | 3.1 | 6         |
| 83 | Substitutional Tolerant Markov Models for Relative Compression of DNA Sequences. Advances in Intelligent Systems and Computing, 2017, , 265-272.   | 0.6 | 6         |
| 84 | Visualization of Distinct DNA Regions of the Modern Human Relatively to a Neanderthal Genome.<br>Lecture Notes in Computer Science, 2017, , 235-242.   | 1.3 | 2         |
| 85 | Cryfa: A Tool to Compact and Encrypt FASTA Files. Advances in Intelligent Systems and Computing, 2017, , 305-312.  | 0.6 | 2         |
| 86 | On the Role of Inverted Repeats in DNA Sequence Similarity. Advances in Intelligent Systems and Computing, 2017, , 228-236.  | 0.6 | 1         |
| 87 | Compression of Amino Acid Sequences. Advances in Intelligent Systems and Computing, 2019, , 105-113.   | 0.6 | 0         |
| 88 | A Probabilistic Method to Find and Visualize Distinct Regions in Protein Sequences. , 2019, , .  |     | 0         |
| 89 | Genome and Methylome analysis of a phylogenetic novel Campylobacter coli cluster with C. jejuni<br>introgression. Microbial Genomics, 2021, 7, .   | 2.0 | 0         |
| 90 | Visualization of Similar Primer and Adapter Sequences in Assembled Archaeal Genomes. Advances in<br>Intelligent Systems and Computing, 2020, , 129-136.  | 0.6 | 0         |

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|----|--|----|-----------|
| 91 | Title is missing!. , 2020, 15, e0228070. |    | 0         |
| 92 | Title is missing!. , 2020, 15, e0228070. |    | 0         |
| 93 | Title is missing!. , 2020, 15, e0228070. |    | 0         |