

Fabiana Arduini

List of Publications by Year in descending order

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150
papers

7,867
citations

31949

53
h-index

58549

82
g-index

152
all docs

152
docs citations

152
times ranked

7038
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic beads combined with carbon black-based screen-printed electrodes for COVID-19: A reliable and miniaturized electrochemical immunosensor for SARS-CoV-2 detection in saliva. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112686.	5.3	331
2	Electrochemical biosensors based on nanomodified screen-printed electrodes: Recent applications in clinical analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 114-126.	5.8	303
3	Origami multiple paper-based electrochemical biosensors for pesticide detection. <i>Biosensors and Bioelectronics</i> , 2019, 126, 346-354.	5.3	227
4	Detection of carbamic and organophosphorous pesticides in water samples using a cholinesterase biosensor based on Prussian Blue-modified screen-printed electrode. <i>Analytica Chimica Acta</i> , 2006, 580, 155-162.	2.6	226
5	Carbon black as an outstanding and affordable nanomaterial for electrochemical (bio)sensor design. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112033.	5.3	177
6	Graphene-based screen-printed electrochemical (bio)sensors and their applications: Efforts and criticisms. <i>Biosensors and Bioelectronics</i> , 2017, 89, 107-122.	5.3	173
7	Novel reagentless paper-based screen-printed electrochemical sensor to detect phosphate. <i>Analytica Chimica Acta</i> , 2016, 919, 78-84.	2.6	156
8	Nanomaterials in electrochemical biosensors for pesticide detection: advances and challenges in food analysis. <i>Mikrochimica Acta</i> , 2016, 183, 2063-2083.	2.5	155
9	A paper-based nanomodified electrochemical biosensor for ethanol detection in beers. <i>Analytica Chimica Acta</i> , 2017, 960, 123-130.	2.6	151
10	Bismuth-modified electrodes for lead detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1295-1304.	5.8	141
11	Biosensors based on cholinesterase inhibition for insecticides, nerve agents and aflatoxin B1 detection (review). <i>Mikrochimica Acta</i> , 2010, 170, 193-214.	2.5	140
12	How cutting-edge technologies impact the design of electrochemical (bio)sensors for environmental analysis. A review. <i>Analytica Chimica Acta</i> , 2017, 959, 15-42.	2.6	133
13	Fully integrated ready-to-use paper-based electrochemical biosensor to detect nerve agents. <i>Biosensors and Bioelectronics</i> , 2017, 93, 46-51.	5.3	129
14	Nanostructured (Bio)sensors for smart agriculture. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 98, 95-103.	5.8	115
15	Preparation of paper-based devices for reagentless electrochemical (bio)sensor strips. <i>Nature Protocols</i> , 2019, 14, 2437-2451.	5.5	114
16	Screen-Printed Electrodes Modified with Carbon Nanomaterials: A Comparison among Carbon Black, Carbon Nanotubes and Graphene. <i>Electroanalysis</i> , 2015, 27, 2230-2238.	1.5	112
17	An overview to electrochemical biosensors and sensors for the detection of environmental contaminants. <i>Journal of the Iranian Chemical Society</i> , 2020, 17, 2429-2447.	1.2	112
18	High performance electrochemical sensor based on modified screen-printed electrodes with cost-effective dispersion of nanostructured carbon black. <i>Electrochemistry Communications</i> , 2010, 12, 346-350.	2.3	111

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19	Carbon Black-Modified Screen-Printed Electrodes as Electroanalytical Tools. <i>Electroanalysis</i> , 2012, 24, 743-751.	1.5	111
20	Acetylcholinesterase biosensor based on self-assembled monolayer-modified gold-screen printed electrodes for organophosphorus insecticide detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 201-208.	4.0	110
21	Dual-modality impedimetric immunosensor for early detection of prostate-specific antigen and myoglobin markers based on antibody-molecularly imprinted polymer. <i>Talanta</i> , 2019, 202, 111-122.	2.9	106
22	A wearable origami-like paper-based electrochemical biosensor for sulfur mustard detection. <i>Biosensors and Bioelectronics</i> , 2019, 129, 15-23.	5.3	103
23	Characterisation of Prussian blue modified screen-printed electrodes for thiol detection. <i>Journal of Electroanalytical Chemistry</i> , 2004, 563, 229-237.	1.9	102
24	Carbon black as successful screen-printed electrode modifier for phenolic compound detection. <i>Electrochemistry Communications</i> , 2015, 60, 78-82.	2.3	95
25	Hg ²⁺ detection by measuring thiol groups with a highly sensitive screen-printed electrode modified with a nanostructured carbon black film. <i>Electrochimica Acta</i> , 2011, 56, 4209-4215.	2.6	93
26	Phosphate Detection through a Cost-Effective Carbon Black Nanoparticle-Modified Screen-Printed Electrode Embedded in a Continuous Flow System. <i>Environmental Science & Technology</i> , 2015, 49, 7934-7939.	4.6	92
27	Development of a bio-electrochemical assay for AFB1 detection in olive oil. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1962-1968.	5.3	89
28	Screen-printed biosensor modified with carbon black nanoparticles for the determination of paraoxon based on the inhibition of butyrylcholinesterase. <i>Mikrochimica Acta</i> , 2015, 182, 643-651.	2.5	88
29	Fast, sensitive and cost-effective detection of nerve agents in the gas phase using a portable instrument and an electrochemical biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1049-1057.	1.9	87
30	Screen-printed electrode modified with carbon black nanoparticles for phosphate detection by measuring the electroactive phosphomolybdate complex. <i>Talanta</i> , 2015, 141, 267-272.	2.9	87
31	Low-cost and reagent-free paper-based device to detect chloride ions in serum and sweat. <i>Talanta</i> , 2018, 179, 186-192.	2.9	83
32	Enzymatic Spectrophotometric Method for Aflatoxin B Detection Based on Acetylcholinesterase Inhibition. <i>Analytical Chemistry</i> , 2007, 79, 3409-3415.	3.2	80
33	Development of a Hydrogen Peroxide Sensor Based on Screen-Printed Electrodes Modified with Inkjet-Printed Prussian Blue Nanoparticles. <i>Sensors</i> , 2014, 14, 14222-14234.	2.1	80
34	Paper-based synthesis of Prussian Blue Nanoparticles for the development of whole blood glucose electrochemical biosensor. <i>Talanta</i> , 2018, 187, 59-64.	2.9	79
35	Highly sensitive paper-based electrochemical sensor for reagent free detection of bisphenol A. <i>Talanta</i> , 2020, 216, 120924.	2.9	79
36	Stripping Analysis of As(III) by Means of Screen-Printed Electrodes Modified with Gold Nanoparticles and Carbon Black Nanocomposite. <i>Electroanalysis</i> , 2014, 26, 931-939.	1.5	76

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37	Paper-based electrochemical peptide nucleic acid (PNA) biosensor for detection of miRNA-492: a pancreatic ductal adenocarcinoma biomarker. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112371.	5.3	75
38	A novel sensing layer based on metal-organic framework UiO-66 modified with TiO ₂ -graphene oxide: application to rapid, sensitive and simultaneous determination of paraoxon and chlorpyrifos. <i>New Journal of Chemistry</i> , 2019, 43, 2600-2609.	1.4	70
39	Inside the different types of carbon black as nanomodifiers for screen-printed electrodes. <i>Electrochimica Acta</i> , 2019, 317, 673-683.	2.6	70
40	A reagent-free paper-based sensor embedded in a 3D printing device for cholinesterase activity measurement in serum. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 1015-1021.	4.0	67
41	Medium-distance affordable, flexible and wireless epidermal sensor for pH monitoring in sweat. <i>Talanta</i> , 2021, 222, 121502.	2.9	67
42	Electroanalysis moves towards paper-based printed electronics: carbon black nanomodified inkjet-printed sensor for ascorbic acid detection as a case study. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 155-160.	4.0	66
43	Reduced graphene oxide decorated on Cu/CuO-Ag nanocomposite as a high-performance material for the construction of a non-enzymatic sensor: Application to the determination of carbaryl and fenamiphos pesticides. <i>Materials Science and Engineering C</i> , 2019, 102, 764-772.	3.8	66
44	Electroanalytical Characterization of Carbon Black Nanomaterial Paste Electrode: Development of Highly Sensitive Tyrosinase Biosensor for Catechol Detection. <i>Analytical Letters</i> , 2010, 43, 1688-1702.	1.0	64
45	Paper-Based Strips for the Electrochemical Detection of Single and Double Stranded DNA. <i>Analytical Chemistry</i> , 2018, 90, 13680-13686.	3.2	64
46	Green nanomaterials fostering agrifood sustainability. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 125, 115840.	5.8	62
47	Electroanalytical Sensor Based on Gold-Nanoparticle-Decorated Paper for Sensitive Detection of Copper Ions in Sweat and Serum. <i>Analytical Chemistry</i> , 2021, 93, 5225-5233.	3.2	62
48	Hg ²⁺ detection using a disposable and miniaturized screen-printed electrode modified with nanocomposite carbon black and gold nanoparticles. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8192-8199.	2.7	60
49	Protein templated Au-Pt nanoclusters-graphene nanoribbons as a high performance sensing layer for the electrochemical determination of diazinon. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 180-189.	4.0	60
50	Precision medicine in Alzheimer's disease: An origami paper-based electrochemical device for cholinesterase inhibitors. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112411.	5.3	60
51	Electrocatalytic oxidation of thiocholine at chemically modified cobalt hexacyanoferrate screen-printed electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009, 626, 66-74.	1.9	59
52	Label-free electrochemical sensor based on spore-imprinted polymer for <i>Bacillus cereus</i> spore detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 114-120.	4.0	58
53	A paper-based colorimetric sensor array for discrimination and simultaneous determination of organophosphate and carbamate pesticides in tap water, apple juice, and rice. <i>Mikrochimica Acta</i> , 2020, 187, 621.	2.5	57
54	Cholesterol biosensor based on inkjet-printed Prussian blue nanoparticle-modified screen-printed electrodes. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 187-190.	4.0	55

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55	A label-free impedimetric aptasensor for the detection of Bacillus anthracis spore simulant. <i>Biosensors and Bioelectronics</i> , 2019, 126, 640-646.	5.3	55
56	The NADH Electrochemical Detection Performed at Carbon Nanofibers Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2007, 19, 1455-1459.	1.5	53
57	Carbon black assisted tailoring of Prussian Blue nanoparticles to tune sensitivity and detection limit towards H ₂ O ₂ by using screen-printed electrode. <i>Electrochemistry Communications</i> , 2014, 47, 63-66.	2.3	53
58	Carbon Black-Modified Electrodes Screen-Printed onto Paper Towel, Waxed Paper and Parafilm MÂ®. <i>Sensors</i> , 2017, 17, 2267.	2.1	52
59	Well-Orientation Strategy for Direct Immobilization of Antibodies: Development of the Immunosensor Using the Boronic Acid-Modified Magnetic Graphene Nanoribbons for Ultrasensitive Detection of Lymphoma Cancer Cells. <i>Analytical Chemistry</i> , 2020, 92, 11405-11412.	3.2	48
60	Amperometric biosensor based on Prussian Blue-modified screen-printed electrode for lipase activity and triacylglycerol determination. <i>Analytica Chimica Acta</i> , 2007, 594, 1-8.	2.6	47
61	Part I: A comparative study of bismuth-modified screen-printed electrodes for lead detection. <i>Analytica Chimica Acta</i> , 2011, 707, 171-177.	2.6	46
62	An eco-designed paper-based algal biosensor for nanoformulated herbicide optical detection. <i>Journal of Hazardous Materials</i> , 2019, 373, 483-492.	6.5	45
63	Glutathione amperometric detection based on a thiolâ€“disulfide exchange reaction. <i>Analytica Chimica Acta</i> , 2006, 558, 164-170.	2.6	43
64	Experimental Comparison in Sensing Breast Cancer Mutations by Signal ON and Signal OFF Paper-Based Electroanalytical Strips. <i>Analytical Chemistry</i> , 2020, 92, 1674-1679.	3.2	43
65	Extraction and Detection of Pesticides by Cholinesterase Inhibition in a Twoâ€“Phase System: a Strategy to Avoid Heavy Metal Interference. <i>Analytical Letters</i> , 2005, 38, 1703-1719.	1.0	41
66	Reversible Enzyme Inhibitionâ€“Based Biosensors: Applications and Analytical Improvement Through Diagnostic Inhibition. <i>Analytical Letters</i> , 2009, 42, 1258-1293.	1.0	40
67	Direct Electrochemistry of Heme Proteins on Electrodes Modified with Didodecyldimethyl Ammonium Bromide and Carbon Black. <i>Electroanalysis</i> , 2012, 24, 1923-1931.	1.5	40
68	Paper-based electroanalytical strip for user-friendly blood glutathione detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 291-297.	4.0	39
69	Paper-based electrochemical peptide sensor for on-site detection of botulinum neurotoxin serotype A and C. <i>Biosensors and Bioelectronics</i> , 2021, 183, 113210.	5.3	39
70	Screen-printed electrode modified with carbon black and chitosan: a novel platform for acetylcholinesterase biosensor development. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7299-7309.	1.9	38
71	The technology tree in the design of glucose biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115642.	5.8	38
72	Sustainable monitoring of Zn(II) in biological fluids using office paper. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 1199-1206.	4.0	37

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73	Towards an integrated biosensor array for simultaneous and rapid multi-analysis of endocrine disrupting chemicals. <i>Analytica Chimica Acta</i> , 2012, 751, 161-170.	2.6	36
74	Part two: Analytical optimisation of a procedure for lead detection in milk by means of bismuth-modified screen-printed electrodes. <i>Analytica Chimica Acta</i> , 2012, 736, 92-99.	2.6	36
75	Colorimetric immunosensor for determination of prostate specific antigen using surface plasmon resonance band of colloidal triangular shape gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 222, 117218.	2.0	35
76	Electrospray deposition as a smart technique for laccase immobilisation on carbon black-nanomodified screen-printed electrodes. <i>Biosensors and Bioelectronics</i> , 2020, 163, 112299.	5.3	35
77	A challenge in biosensors: Is it better to measure a photon or an electron for ultrasensitive detection?. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112093.	5.3	33
78	Analytical aspects of enzyme reversible inhibition. <i>Talanta</i> , 2014, 118, 368-374.	2.9	32
79	Origami Paper-Based Electrochemical (Bio)Sensors: State of the Art and Perspective. <i>Biosensors</i> , 2021, 11, 328.	2.3	32
80	Disposable Electrochemical Sensor to Evaluate the Phytoremediation of the Aquatic Plant <i>Lemna minor</i> toward Pb ²⁺ and/or Cd ²⁺ . <i>Environmental Science & Technology</i> , 2014, 48, 7477-7485.	4.6	31
81	Paper-based immunoassay based on 96-well wax-printed paper plate combined with magnetic beads and colorimetric smartphone-assisted measure for reliable detection of SARS-CoV-2 in saliva. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113909.	5.3	31
82	Carbon black nanoparticles to sense algae oxygen evolution for herbicides detection: Atrazine as a case study. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112203.	5.3	30
83	Natural-based chiral task-specific deep eutectic solvents: A novel, effective tool for enantiodiscrimination in electroanalysis. <i>Electrochimica Acta</i> , 2021, 380, 138189.	2.6	30
84	Development of an Electrochemical Sensor for NADH Determination Based on a Caffeic Acid Redox Mediator Supported on Carbon Black. <i>Chemosensors</i> , 2015, 3, 118-128.	1.8	29
85	Carbon black-based disposable sensor for an on-site detection of free chlorine in swimming pool water. <i>Talanta</i> , 2018, 189, 262-267.	2.9	29
86	Electrochemical determination of capsaicin in pepper samples using sustainable paper-based screen-printed bulk modified with carbon black. <i>Electrochimica Acta</i> , 2020, 354, 136628.	2.6	29
87	All-solid state ion-selective carbon black-modified printed electrode for sodium detection in sweat. <i>Electrochimica Acta</i> , 2021, 394, 139050.	2.6	29
88	A paper-based electrochemical device for the detection of pesticides in aerosol phase inspired by nature: A flower-like origami biosensor for precision agriculture. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114119.	5.3	29
89	A lab-on-a-tip approach to make electroanalysis user-friendly and de-centralized: Detection of copper ions in river water. <i>Analytica Chimica Acta</i> , 2018, 1029, 1-7.	2.6	28
90	Effect of Different Carbon Blacks on the Simultaneous Electroanalysis of Drugs as Water Contaminants Based on Screen-printed Sensors. <i>Electroanalysis</i> , 2019, 31, 2145-2154.	1.5	27

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91	Rapid and label-free detection of ochratoxin A and aflatoxin B1 using an optical portable instrument. <i>Talanta</i> , 2016, 150, 440-448.	2.9	26
92	Automatable Flow System for Paraoxon Detection with an Embedded Screen-Printed Electrode Tailored with Butyrylcholinesterase and Prussian Blue Nanoparticles. <i>Chemosensors</i> , 2015, 3, 129-145.	1.8	25
93	Paper-Based Electrochemical Devices in Biomedical Field. <i>Comprehensive Analytical Chemistry</i> , 2017, 77, 385-413.	0.7	25
94	Sustainable materials for the design of forefront printed (bio)sensors applied in agrifood sector. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115909.	5.8	25
95	Reusable optical multi-plate sensing system for pesticide detection by using electrospun membranes as smart support for acetylcholinesterase immobilisation. <i>Materials Science and Engineering C</i> , 2020, 111, 110744.	3.8	24
96	Towards a Portable Prototype Based on Electrochemical Cholinesterase Biosensor to be Assembled to Soldier Overall for Nerve Agent Detection. <i>Electroanalysis</i> , 2012, 24, 581-590.	1.5	23
97	A paper-based electrochemical sensor for H ₂ O ₂ detection in aerosol phase: Measure of H ₂ O ₂ nebulized by a reconverted ultrasonic aroma diffuser as a case of study. <i>Microchemical Journal</i> , 2021, 166, 106249.	2.3	23
98	Smartphone-assisted electrochemical sensor for reliable detection of tyrosine in serum. <i>Talanta</i> , 2022, 237, 122869.	2.9	22
99	A 96-well wax printed Prussian Blue paper for the visual determination of cholinesterase activity in human serum. <i>Biosensors and Bioelectronics</i> , 2019, 134, 97-102.	5.3	21
100	Screen-printed electrode as a cost-effective and miniaturized analytical tool for corrosion monitoring of reinforced concrete. <i>Electrochemistry Communications</i> , 2019, 98, 69-72.	2.3	21
101	Electrochemical Characterization of Carbon Solid-like Paste Electrode Assembled Using Different Carbon Nanoparticles. <i>Electroanalysis</i> , 2016, 28, 1044-1051.	1.5	19
102	Emerging technologies in the design of peptide nucleic acids (PNAs) based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116062.	5.8	19
103	Paper-Based Electrochemical Devices for the Pharmaceutical Field: State of the Art and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 339.	2.0	19
104	Novel bio-lab-on-a-tip for electrochemical glucose sensing in commercial beverages. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112334.	5.3	18
105	A dual electro-optical biosensor based on <i>Chlamydomonas reinhardtii</i> immobilised on paper-based nanomodified screen-printed electrodes for herbicide monitoring. <i>Journal of Nanobiotechnology</i> , 2021, 19, 145.	4.2	18
106	A miniaturized bismuth-based sensor to evaluate the marine organism <i>Styela plicata</i> bioremediation capacity toward heavy metal polluted seawater. <i>Science of the Total Environment</i> , 2017, 584-585, 692-700.	3.9	17
107	Nanomaterial-based sensors. , 2020, , 329-359.		17
108	A rapid screening method for testing the efficiency of masks in breaking down aerosols. <i>Microchemical Journal</i> , 2020, 157, 104928.	2.3	16

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109	Flexible Polyester Screen-Printed Electrode Modified with Carbon Nanofibers for the Electrochemical Aptasensing of Cadmium (II). <i>Electroanalysis</i> , 2020, 32, 2650-2658.	1.5	16
110	A whole cell optical bioassay for the detection of chemical warfare mustard agent simulants. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 658-665.	4.0	14
111	Paper-based electrochemical sensor for on-site detection of the sulphur mustard. <i>Environmental Science and Pollution Research</i> , 2021, 28, 25069-25080.	2.7	14
112	Multi-array wax paper-based platform for the pre-concentration and determination of silver ions in drinking water. <i>Talanta</i> , 2021, 232, 122474.	2.9	14
113	Biosensors Based on Enzyme Inhibition. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 140, 299-326.	0.6	13
114	A Choline Oxidase Amperometric Bioassay for the Detection of Mustard Agents Based on Screen-Printed Electrodes Modified with Prussian Blue Nanoparticles. <i>Sensors</i> , 2015, 15, 4353-4367.	2.1	13
115	Organophosphorous Pesticide Detection in Olive Oil by Using a Miniaturized, Easy-to-Use, and Cost-Effective Biosensor Combined with QuEChERS for Sample Clean-Up. <i>Sensors</i> , 2017, 17, 34.	2.1	12
116	Multiparametric analysis by paper-assisted potentiometric sensors for diagnostic and monitoring of reinforced concrete structures. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130352.	4.0	12
117	A Rapid Enzymatic Method for Aflatoxin B Detection. <i>Methods in Molecular Biology</i> , 2011, 739, 217-235.	0.4	12
118	A Miniaturized Carbon Black-based Electrochemical Sensor for Chlorine Dioxide Detection in Swimming Pool Water. <i>Electroanalysis</i> , 2020, 32, 986-991.	1.5	11
119	Multi-potential biomarkers for seafood quality assessment: Global wide implication for human health monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116056.	5.8	11
120	State of the Art on the SARS-CoV-2 Toolkit for Antigen Detection: One Year Later. <i>Biosensors</i> , 2021, 11, 310.	2.3	11
121	Testing and Characterization of Different Papers as Substrate Material for Printed Electronics and Application in Humidity Sensor. <i>Sensors and Materials</i> , 2019, 31, 2981.	0.3	11
122	Effects of Humidity, Temperature and Bismuth Electrodeposition on Electroanalytical Performances of Nafion-coated Printed Electrodes for Cd ²⁺ and Pb ²⁺ Detection. <i>Electroanalysis</i> , 2020, 32, 345-357.	1.5	10
123	Paper-based devices as new smart analytical tools for sustainable detection of environmental pollutants. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 4, 100167.	2.9	10
124	Facile development of cost effective and greener for all solid-state supercapacitor on paper substrate. <i>Journal of Energy Storage</i> , 2021, 33, 102107.	3.9	9
125	Chiral Biobased Ionic Liquids with Cations or Anions including Bile Acid Building Blocks as Chiral Selectors in Voltammetry. <i>ChemElectroChem</i> , 2021, 8, 1377-1387.	1.7	9
126	A fully-printed electrochemical platform for assisted colorimetric detection of phosphate in saliva: Greenness and whiteness quantification by the AGREE and RGB tools. , 2022, 1, 100006.		9

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127	Disposable Electrochemical Biosensor Based on Cholinesterase Inhibition with Improved Shelf-Life and Working Stability for Nerve Agent Detection. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 261-278.	0.5	8
128	Influence of Iron Catalyst in the Carbon Spheres Synthesis for Energy and Electrochemical Applications. Advanced Materials Interfaces, 2018, 5, 1800070.	1.9	8
129	Treated Gold Screen-Printed Electrode as Disposable Platform for Label-Free Immunosensing of Salmonella Typhimurium. Electrocatalysis, 2019, 10, 288-294.	1.5	8
130	A Poly(Propylene Imine) Dendrimer and Carbon Black Modified Flexible Screen Printed Electrochemical Sensor for Lead and Cadmium Co-detection. Electroanalysis, 2020, 32, 3009-3016.	1.5	8
131	Development of novel carbon black-based heterogeneous oligonucleotide-antibody assay for sulfur mustard detection. Sensors and Actuators B: Chemical, 2021, 328, 129054.	4.0	8
132	Nanomaterials and Cross-Cutting Technologies for Fostering Smart Electrochemical Biosensors in the Detection of Chemical Warfare Agents. Applied Sciences (Switzerland), 2021, 11, 720.	1.3	8
133	Modulating the Enantiodiscrimination Features of Inherently Chiral Selectors by Molecular Design: A HPLC and Voltammetry Study Case with Atropisomeric 2,2'-indole-Based Monomers and Oligomer Films. Chemistry - A European Journal, 2021, 27, 13190-13202.	1.7	8
134	Vertical-Flow Paper Sensor for On-Site and Prompt Evaluation of Chloride Contamination in Concrete Structures. Analytical Chemistry, 2021, 93, 14369-14374.	3.2	8
135	Design and Manufacture of Flexible Epidermal NFC Device for Electrochemical Sensing of Sweat. , 2022, , .		8
136	Magnetic carbon spheres and their derivatives combined with printed electrochemical sensors. Electrochimica Acta, 2018, 282, 247-254.	2.6	7
137	A Paper-Based Potentiometric Sensor for Solid Samples: Corrosion Evaluation of Reinforcements Embedded in Concrete Structures as a Case Study. ChemElectroChem, 2020, 7, 2274-2282.	1.7	7
138	Nanobiosensors for Bioclinical Applications: Pros and Cons. Nanotechnology in the Life Sciences, 2020, , 117-149.	0.4	6
139	Electrochemical Biosensors for Chemical Warfare Agents. Advanced Sciences and Technologies for Security Applications, 2016, , 115-139.	0.4	6
140	Carbon-black combined with TiO ₂ and CuQ as sustainable photosystem for a reliable self-powered photoelectrochemical biosensor. Electrochimica Acta, 2022, 426, 140766.	2.6	6
141	Efforts, Challenges, and Future Perspectives of Graphene-Based (Bio)sensors for Biomedical Applications. , 2018, , 133-150.		5
142	Real-Time Monitoring of Hydrogen Peroxide Consumption in an Oxidation Reaction in Molecular Solvent and Ionic Liquids by a Hydrogen Peroxide Electrochemical Sensor. ChemSusChem, 2011, 4, 792-796.	3.6	4
143	A Proof-of-Concept Electrochemical Cytosensor Based on Chlamydomonas reinhardtii Functionalized Carbon Black Screen-Printed Electrodes: Detection of Escherichia coli in Wastewater as a Case Study. Biosensors, 2022, 12, 401.	2.3	4
144	How to extend range linearity in enzyme inhibition-based biosensing assays. Talanta, 2018, 189, 365-369.	2.9	3

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145	Multifarious aspects of electrochemical paper-based (bio)sensors. <i>Comprehensive Analytical Chemistry</i> , 2020, , 139-161.	0.7	3
146	Carbon Black/Gold Nanoparticles Composite for Efficient Amperometric Sensors. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 159-163.	0.3	2
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148	Rapid electrochemical screening methods for food safety and quality. <i>Acta IMEKO (2012)</i> , 2016, 5, 45.	0.4	1
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