

Abbas Afkhami

List of Publications by Year in descending order

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Version: 2024-02-01

354
papers

14,765
citations

17429

63
h-index

32815

100
g-index

361
all docs

361
docs citations

361
times ranked

13244
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorptive removal of Congo red, a carcinogenic textile dye, from aqueous solutions by maghemite nanoparticles. <i>Journal of Hazardous Materials</i> , 2010, 174, 398-403.	6.5	565
2	Handling of Rayleigh and Raman scatter for PARAFAC modeling of fluorescence data using interpolation. <i>Journal of Chemometrics</i> , 2006, 20, 99-105.	0.7	434
3	Simultaneous removal of heavy-metal ions in wastewater samples using nano-alumina modified with 2,4-dinitrophenylhydrazine. <i>Journal of Hazardous Materials</i> , 2010, 181, 836-844.	6.5	430
4	Removal of some cationic dyes from aqueous solutions using magnetic-modified multi-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2011, 196, 109-114.	6.5	339
5	Preparation and characterization of magnetic nanocomposite of Schiff base/silica/magnetite as a preconcentration phase for the trace determination of heavy metal ions in water, food and biological samples using atomic absorption spectrometry. <i>Talanta</i> , 2012, 97, 87-95.	2.9	312
6	Electrochemical biosensors for the detection of lung cancer biomarkers: A review. <i>Talanta</i> , 2020, 206, 120251.	2.9	225
7	HEAVY METALS REMOVAL FROM AQUEOUS SOLUTIONS USING TiO ₂ , MgO, AND Al ₂ O ₃ NANOPARTICLES. <i>Chemical Engineering Communications</i> , 2013, 200, 448-470.	1.5	207
8	Modified maghemite nanoparticles as an efficient adsorbent for removing some cationic dyes from aqueous solution. <i>Desalination</i> , 2010, 263, 240-248.	4.0	185
9	Surface decoration of multi-walled carbon nanotubes modified carbon paste electrode with gold nanoparticles for electro-oxidation and sensitive determination of nitrite. <i>Biosensors and Bioelectronics</i> , 2014, 51, 379-385.	5.3	178
10	Simultaneous determination of tyrosine, acetaminophen and ascorbic acid using gold nanoparticles/multiwalled carbon nanotube/glassy carbon electrode by differential pulse voltammetric method. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 451-460.	4.0	170
11	Removal of heavy metals from aqueous solutions using Fe ₃ O ₄ , ZnO, and CuO nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	163
12	Adsorption and kinetic studies of seven different organic dyes onto magnetite nanoparticles loaded tea waste and removal of them from wastewater samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 99, 102-109.	2.0	158
13	Simultaneous electrochemical determination of heavy metals using a triphenylphosphine/MWCNTs composite carbon ionic liquid electrode. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 451-460.	4.0	158
14	Betulin and its derivatives as novel compounds with different pharmacological effects. <i>Biotechnology Advances</i> , 2020, 38, 107409.	6.0	158
15	Mean centering of ratio spectra as a new spectrophotometric method for the analysis of binary and ternary mixtures. <i>Talanta</i> , 2005, 66, 712-720.	2.9	147
16	Removal, preconcentration and determination of Mo(VI) from water and wastewater samples using maghemite nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 346, 52-57.	2.3	147
17	Simultaneous electrochemical sensing of thallium, lead and mercury using a novel ionic liquid/graphene modified electrode. <i>Analytica Chimica Acta</i> , 2015, 870, 56-66.	2.6	144
18	Fabrication and application of a new modified electrochemical sensor using nano-silica and a newly synthesized Schiff base for simultaneous determination of Cd ²⁺ , Cu ²⁺ and Hg ²⁺ ions in water and some foodstuff samples. <i>Analytica Chimica Acta</i> , 2013, 771, 21-30.	2.6	137

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19	Preconcentration and spectrophotometric determination of low concentrations of malachite green and leuco-malachite green in water samples by high performance solid phase extraction using maghemite nanoparticles. <i>Talanta</i> , 2010, 82, 785-789.	2.9	129
20	Preparation of NiFe ₂ O ₄ /graphene nanocomposite and its application as a modifier for the fabrication of an electrochemical sensor for the simultaneous determination of tramadol and acetaminophen. <i>Analytica Chimica Acta</i> , 2014, 831, 50-59.	2.6	127
21	Simultaneous trace-levels determination of Hg(II) and Pb(II) ions in various samples using a modified carbon paste electrode based on multi-walled carbon nanotubes and a new synthesized Schiff base. <i>Analytica Chimica Acta</i> , 2012, 746, 98-106.	2.6	123
22	Synthesis of calcium peroxide nanoparticles as an innovative reagent for in situ chemical oxidation. <i>Journal of Hazardous Materials</i> , 2011, 192, 1437-1440.	6.5	121
23	The effect of acid treatment of carbon cloth on the adsorption of nitrite and nitrate ions. <i>Journal of Hazardous Materials</i> , 2007, 144, 427-431.	6.5	119
24	Facile simultaneous electrochemical determination of codeine and acetaminophen in pharmaceutical samples and biological fluids by graphene-CoFe ₂ O ₄ nanocomposite modified carbon paste electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 909-918.	4.0	119
25	Fabrication of a new electrochemical sensor based on a new nano-molecularly imprinted polymer for highly selective and sensitive determination of tramadol in human urine samples. <i>Biosensors and Bioelectronics</i> , 2013, 44, 34-40.	5.3	117
26	Investigation of Removal of Cr(VI), Mo(VI), W(VI), V(IV), and V(V) Oxy-ions from Industrial Waste-Waters by Adsorption and Electrosorption at High-Area Carbon Cloth. <i>Journal of Colloid and Interface Science</i> , 2002, 251, 248-255.	5.0	116
27	Gold nanoparticle/multi-walled carbon nanotube modified glassy carbon electrode as a sensitive voltammetric sensor for the determination of diclofenac sodium. <i>Materials Science and Engineering C</i> , 2016, 59, 168-176.	3.8	115
28	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
29	Impedimetric immunosensor for the label-free and direct detection of botulinum neurotoxin serotype A using Au nanoparticles/graphene-chitosan composite. <i>Biosensors and Bioelectronics</i> , 2017, 93, 124-131.	5.3	106
30	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
31	Construction of a chemically modified electrode for the selective determination of nitrite and nitrate ions based on a new nanocomposite. <i>Electrochimica Acta</i> , 2012, 66, 255-264.	2.6	98
32	Highly sensitive simultaneous electrochemical determination of trace amounts of Pb(II) and Cd(II) using a carbon paste electrode modified with multi-walled carbon nanotubes and a newly synthesized Schiff base. <i>Electrochimica Acta</i> , 2013, 89, 377-386.	2.6	98
33	Application of Modified Silica Coated Magnetite Nanoparticles for Removal of Iodine from Water Samples. <i>Nano-Micro Letters</i> , 2012, 4, 57-63.	14.4	97
34	Construction of a modified carbon paste electrode for the highly selective simultaneous electrochemical determination of trace amounts of mercury(II) and cadmium(II). <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 542-548.	4.0	97
35	Protein capped Cu nanoclusters-SWCNT nanocomposite as a novel candidate of high performance platform for organophosphates enzymeless biosensor. <i>Biosensors and Bioelectronics</i> , 2017, 89, 829-836.	5.3	95
36	Mean centering of ratio kinetic profiles as a novel spectrophotometric method for the simultaneous kinetic analysis of binary mixtures. <i>Analytica Chimica Acta</i> , 2004, 526, 211-218.	2.6	93

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37	Flame atomic absorption spectrometric determination of trace quantities of cadmium in water samples after cloud point extraction in Triton X-114 without added chelating agents. <i>Journal of Hazardous Materials</i> , 2006, 138, 269-272.	6.5	93
38	Development of a cost-effective technique to remove the arsenic contamination from aqueous solutions by calcium peroxide nanoparticles. <i>Separation and Purification Technology</i> , 2012, 95, 10-15.	3.9	89
39	High-performance electrochemical enzyme sensor for organophosphate pesticide detection using modified metal-organic framework sensing platforms. <i>Bioelectrochemistry</i> , 2019, 130, 107348.	2.4	89
40	Spectrophotometric determination of trace amounts of uranium(VI) in water samples after mixed micelle-mediated extraction. <i>Talanta</i> , 2007, 71, 610-614.	2.9	88
41	Green and cost-effective synthesis of carbon dots from date kernel and their application as a novel switchable fluorescence probe for sensitive assay of Zoledronic acid drug in human serum and cellular imaging. <i>Analytica Chimica Acta</i> , 2018, 1030, 183-193.	2.6	86
42	Flame atomic absorption spectrometric determination of trace amounts of Pb(II) and Cr(III) in biological, food and environmental samples after preconcentration by modified nano-alumina. <i>Mikrochimica Acta</i> , 2011, 172, 125-136.	2.5	85
43	Salicylic acid functionalized silica-coated magnetite nanoparticles for solid phase extraction and preconcentration of some heavy metal ions from various real samples. <i>Chemistry Central Journal</i> , 2011, 5, 41.	2.6	85
44	Selective solid-phase extraction of naproxen drug from human urine samples using molecularly imprinted polymer-coated magnetic multi-walled carbon nanotubes prior to its spectrofluorometric determination. <i>Analyst</i> , 2013, 138, 4542.	1.7	84
45	Simultaneous and sensitive determination of melatonin and dopamine with Fe ₃ O ₄ nanoparticle-decorated reduced graphene oxide modified electrode. <i>RSC Advances</i> , 2015, 5, 21659-21669.	1.7	84
46	Development of a molecularly imprinted polymer tailored on disposable screen-printed electrodes for dual detection of EGFR and VEGF using nano-liposomal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2018, 107, 26-33.	5.3	83
47	New nano-composite potentiometric sensor composed of graphene nanosheets/thionine/molecular wire for nanomolar detection of silver ion in various real samples. <i>Talanta</i> , 2015, 131, 548-555.	2.9	82
48	Separation, preconcentration and determination of silver ion from water samples using silica gel modified with 2,4,6-trimorpholino-1,3,5-triazin. <i>Journal of Hazardous Materials</i> , 2006, 128, 67-72.	6.5	78
49	New Schiff base-carbon nanotube/nanosilica/ionic liquid as a high performance sensing material of a potentiometric sensor for nanomolar determination of cerium(III) ions. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 237-244.	4.0	78
50	Fabrication of a novel aptasensor based on three-dimensional reduced graphene oxide/polyaniline/gold nanoparticle composite as a novel platform for high sensitive and specific cocaine detection. <i>Analytica Chimica Acta</i> , 2017, 996, 10-19.	2.6	78
51	A new nano-composite potentiometric sensor containing an Hg ²⁺ -ion imprinted polymer for the trace determination of mercury ions in different matrices. <i>Journal of Molecular Liquids</i> , 2015, 204, 227-235.	2.3	77
52	Sensitive and simple simultaneous determination of morphine and codeine using a Zn ₂ SnO ₄ nanoparticle/graphene composite modified electrochemical sensor. <i>New Journal of Chemistry</i> , 2016, 40, 7102-7112.	1.4	74
53	Superparamagnetic surface molecularly imprinted nanoparticles for sensitive solid-phase extraction of tramadol from urine samples. <i>Talanta</i> , 2013, 105, 255-261.	2.9	73
54	Micelle-mediated extraction for the spectrophotometric determination of nitrite in water and biological samples based on its reaction with p-nitroaniline in the presence of diphenylamine. <i>Analytical Biochemistry</i> , 2005, 336, 295-299.	1.1	71

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55	Enhanced Visual Wireless Electrochemiluminescence Immunosensing of Prostate-Specific Antigen Based on the Luminol Loaded into MIL-53(Fe)-NH ₂ Accelerator and Hydrogen Evolution Reaction Mediation. <i>Analytical Chemistry</i> , 2019, 91, 6383-6390.	3.2	71
56	Facile stripping voltammetric determination of haloperidol using a high performance magnetite/carbon nanotube paste electrode in pharmaceutical and biological samples. <i>Materials Science and Engineering C</i> , 2014, 37, 264-270.	3.8	70
57	Construction of a carbon ionic liquid paste electrode based on multi-walled carbon nanotubes-synthesized Schiff base composite for trace electrochemical detection of cadmium. <i>Materials Science and Engineering C</i> , 2014, 35, 8-14.	3.8	70
58	Heavy metals removal from aqueous solutions by Al ₂ O ₃ nanoparticles modified with natural and chemical modifiers. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 85-102.	2.1	70
59	Modified 3D Graphene-Au as a Novel Sensing Layer for Direct and Sensitive Electrochemical Determination of Carbaryl Pesticide in Fruit, Vegetable, and Water Samples. <i>Food Analytical Methods</i> , 2018, 11, 3005-3014.	1.3	70
60	Magnetic nickel zinc ferrite nanocomposite as an efficient adsorbent for the removal of organic dyes from aqueous solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 920-924.	2.9	68
61	Indirect Kinetic Spectrophotometric Determination of Resorcinol, Catechol, and Hydroquinone. <i>Journal of Analytical Chemistry</i> , 2001, 56, 429-432.	0.4	67
62	Effect of the impregnation of carbon cloth with ethylenediaminetetraacetic acid on its adsorption capacity for the adsorption of several metal ions. <i>Journal of Hazardous Materials</i> , 2008, 150, 408-412.	6.5	67
63	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
64	In Situ Growth of Metal-Organic Framework HKUST-1 on Graphene Oxide Nanoribbons with High Electrochemical Sensing Performance in Imatinib Determination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4859-4869.	4.0	64
65	Turn-off fluorescence of amino-functionalized carbon quantum dots as effective fluorescent probes for determination of isotretinoin. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 428-435.	4.0	61
66	Successive ratio-derivative spectra as a new spectrophotometric method for the analysis of ternary mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 869-877.	2.0	60
67	Gold nanoparticles modified carbon paste electrode as an efficient electrochemical sensor for rapid and sensitive determination of cefixime in urine and pharmaceutical samples. <i>Electrochimica Acta</i> , 2013, 103, 125-133.	2.6	60
68	New synthetic mercaptoethylamino homopolymer-modified maghemite nanoparticles for effective removal of some heavy metal ions from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 1160-1166.	2.9	60
69	Voltammetric determination of 4-nitrophenol using a glassy carbon electrode modified with a gold-ZnO-SiO ₂ nanostructure. <i>Mikrochimica Acta</i> , 2018, 185, 296.	2.5	60
70	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
71	Alumina nanoparticles grafted with functional groups as a new adsorbent in efficient removal of formaldehyde from water samples. <i>Desalination</i> , 2011, 281, 151-158.	4.0	59
72	A novel spectrophotometric method for the simultaneous kinetic analysis of ternary mixtures by mean centering of ratio kinetic profiles. <i>Talanta</i> , 2006, 68, 1148-1155.	2.9	58

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73	A novel cyanide sensing phase based on immobilization of methyl violet on a triacetylcellulose membrane. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 437-441.	4.0	58
74	Chemically modified alumina nanoparticles for selective solid phase extraction and preconcentration of trace amounts of Cd(II). <i>Mikrochimica Acta</i> , 2011, 175, 69-77.	2.5	58
75	Surface decoration of cadmium-sulfide quantum dots with 3-mercaptopropionic acid as a fluorescence probe for determination of ciprofloxacin in real samples. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 14-21.	4.0	58
76	Polyethylenimine@Fe ₃ O ₄ @carbon nanotubes nanocomposite as a modifier in glassy carbon electrode for sensitive determination of ciprofloxacin in biological samples. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 281-289.	1.9	58
77	Kinetic study of the oxidation of some catecholamines by digital simulation of cyclic voltammograms. <i>International Journal of Chemical Kinetics</i> , 2005, 37, 17-24.	1.0	57
78	Mo(VI) and W(VI) removal from water samples by acid-treated high area carbon cloth. <i>Desalination</i> , 2009, 243, 258-264.	4.0	56
79	A novel sensor for sensitive determination of atropine based on a Co ₃ O ₄ -reduced graphene oxide modified carbon paste electrode. <i>New Journal of Chemistry</i> , 2015, 39, 3875-3881.	1.4	56
80	Simultaneous spectrophotometric determination of hydrazine and phenylhydrazine based on their condensation reactions with different aromatic aldehydes in micellar media using H-point standard addition method. <i>Talanta</i> , 2004, 62, 559-565.	2.9	54
81	Second-order advantage applied to simultaneous spectrofluorimetric determination of paracetamol and mefenamic acid in urine samples. <i>Analytica Chimica Acta</i> , 2009, 645, 25-29.	2.6	54
82	A Potentiometric Sensor for Cd ²⁺ Based on Carbon Nanotube Paste Electrode Constructed from Room Temperature Ionic Liquid, Ionophore and Silica Nanoparticles. <i>Electroanalysis</i> , 2012, 24, 2176-2185.	1.5	54
83	A novel platform based on graphene nanoribbons/protein capped Au-Cu bimetallic nanoclusters: Application to the sensitive electrochemical determination of bisphenol A. <i>Microchemical Journal</i> , 2019, 145, 242-251.	2.3	54
84	Simultaneous determination of Co ²⁺ , Ni ²⁺ , Cu ²⁺ and Zn ²⁺ ions in foodstuffs and vegetables with a new Schiff base using artificial neural networks. <i>Talanta</i> , 2009, 77, 995-1001.	2.9	53
85	Spectroscopic and molecular docking techniques study of the interaction between oxymetholone and human serum albumin. <i>Journal of Luminescence</i> , 2014, 155, 218-225.	1.5	50
86	The principles of bipolar electrochemistry and its electroanalysis applications. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 30-37.	2.5	50
87	Lab in a Tube: Point-of-Care Detection of <i>Escherichia coli</i> . <i>Analytical Chemistry</i> , 2020, 92, 4209-4216.	3.2	50
88	Spectrophotometric Determination of Periodate, Iodate and Bromate Mixtures Based on Their Reaction with Iodide.. <i>Analytical Sciences</i> , 2001, 17, 1199-1202.	0.8	49
89	Simultaneous spectrofluorimetric determination of levodopa and propranolol in urine using feed-forward neural networks assisted by principal component analysis. <i>Talanta</i> , 2009, 78, 1051-1055.	2.9	49
90	Novel potentiometric sensor for the determination of Cd ²⁺ based on a new nano-composite. <i>International Journal of Environmental Analytical Chemistry</i> , 2013, 93, 578-591.	1.8	49

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91	Simple in situ functionalizing magnetite nanoparticles by reactive blue-19 and their application to the effective removal of Pb ²⁺ ions from water samples. <i>Chemosphere</i> , 2013, 90, 542-547.	4.2	49
92	Construction a magneto carbon paste electrode using synthesized molecularly imprinted magnetic nanospheres for selective and sensitive determination of mefenamic acid in some real samples. <i>Biosensors and Bioelectronics</i> , 2015, 68, 712-718.	5.3	49
93	Adsorption and electrosorption of nitrate and nitrite on high-area carbon cloth: an approach to purification of water and waste-water samples. <i>Carbon</i> , 2003, 41, 1320-1322.	5.4	48
94	Spectrophotometric determination of beryllium in water samples after micelle-mediated extraction preconcentration. <i>Talanta</i> , 2007, 71, 1103-1109.	2.9	48
95	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
96	Simultaneous kinetic spectrophotometric determination of cyanide and thiocyanate using the partial least squares (PLS) regression. <i>Talanta</i> , 2007, 71, 893-899.	2.9	47
97	Electrochemical determination of levodopa in the presence of ascorbic acid by polyglycine/ZnO nanoparticles/multi-walled carbon nanotubes-modified carbon paste electrode. <i>Ionics</i> , 2015, 21, 2937-2947.	1.2	47
98	Solid phase extraction of doxorubicin using molecularly imprinted polymer coated magnetite nanospheres prior to its spectrofluorometric determination. <i>New Journal of Chemistry</i> , 2015, 39, 163-171.	1.4	47
99	Micelle-mediated extraction for simultaneous spectrophotometric determination of aluminum and beryllium using mean centering of ratio spectra. <i>Talanta</i> , 2007, 72, 408-414.	2.9	46
100	Kinetic spectrophotometric determination of selenium in natural water after preconcentration of elemental selenium on activated carbon. <i>Talanta</i> , 2002, 58, 311-317.	2.9	45
101	Effect of treatment of carbon cloth with sodium hydroxide solution on its adsorption capacity for the adsorption of some cations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 304, 36-40.	2.3	45
102	Simultaneous determination of calcium, magnesium and zinc in different foodstuffs and pharmaceutical samples with continuous wavelet transforms. <i>Food Chemistry</i> , 2008, 109, 660-669.	4.2	45
103	Synthesis of gold nanoparticles using pH-sensitive hydrogel and its application for colorimetric determination of acetaminophen, ascorbic acid and folic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 517-524.	2.3	45
104	Molecularly imprinted polymer coated magnetite nanoparticles as an efficient mefenamic acid resonance light scattering nanosensor. <i>Analytica Chimica Acta</i> , 2014, 852, 250-256.	2.6	45
105	A new nano-composite modified carbon paste electrode as a high performance potentiometric sensor for nanomolar Ti(II) determination. <i>Journal of Molecular Liquids</i> , 2014, 197, 52-57.	2.3	45
106	Fabrication of a novel electrochemical sensing platform based on a core-shell nano-structured/molecularly imprinted polymer for sensitive and selective determination of ephedrine. <i>RSC Advances</i> , 2016, 6, 51135-51145.	1.7	45
107	Indirect Kinetic Spectrophotometric Determination of Hydroxylamine Based on Its Reaction with Iodate. <i>Analytical Sciences</i> , 2006, 22, 329-331.	0.8	44
108	A novel electrochemical sensor based on magneto Au nanoparticles/carbon paste electrode for voltammetric determination of acetaminophen in real samples. <i>Materials Science and Engineering C</i> , 2015, 57, 205-214.	3.8	44

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109	Gold nanoparticles deposited on fluorine-doped tin oxide surface as an effective platform for fabricating a highly sensitive and specific digoxin aptasensor. <i>RSC Advances</i> , 2015, 5, 58491-58498.	1.7	44
110	Electrochemically oxidized multiwalled carbon nanotube/glassy carbon electrode as a probe for simultaneous determination of dopamine and doxorubicin in biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2577-2586.	1.9	43
111	New portable smartphone-based PDMS microfluidic kit for the simultaneous colorimetric detection of arsenic and mercury. <i>RSC Advances</i> , 2018, 8, 27091-27100.	1.7	43
112	Adsorption of some cationic and anionic dyes on magnetite nanoparticles-modified activated carbon from aqueous solutions: equilibrium and kinetics study. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 481-489.	1.2	42
113	A novel electrochemical sensor based on magneto LDH/Fe ₃ O ₄ nanoparticles @ glassy carbon electrode for voltammetric determination of tramadol in real samples. <i>Ionics</i> , 2017, 23, 1005-1015.	1.2	42
114	Graphene nanoribbon/FePt bimetallic nanoparticles/uric acid as a novel magnetic sensing layer of screen printed electrode for sensitive determination of ampyra. <i>Talanta</i> , 2018, 176, 350-359.	2.9	42
115	Highly selective determination of trace quantities of mercury in water samples after preconcentration by the cloud-point extraction method. <i>International Journal of Environmental Analytical Chemistry</i> , 2006, 86, 1165-1173.	1.8	41
116	Synthesis of antibacterial and magnetic nanocomposites by decorating graphene oxide surface with metal nanoparticles. <i>RSC Advances</i> , 2015, 5, 76442-76450.	1.7	41
117	A new chiral electrochemical sensor for the enantioselective recognition of naproxen enantiomers using L-cysteine self-assembled over gold nanoparticles on a gold electrode. <i>RSC Advances</i> , 2015, 5, 58609-58615.	1.7	40
118	Solid phase extraction of amoxicillin using dibenzo-18-crown-6 modified magnetic-multiwalled carbon nanotubes prior to its spectrophotometric determination. <i>Talanta</i> , 2016, 148, 122-128.	2.9	40
119	A novel and high performance enzyme-less sensing layer for electrochemical detection of methyl parathion based on BSA templated Au@Ag bimetallic nanoclusters. <i>New Journal of Chemistry</i> , 2018, 42, 7213-7222.	1.4	40
120	An efficient electrochemical synthesis of diamino-o-benzoquinone: Mechanistic and kinetic evaluation of the reaction of azide ion with o-benzoquinone. <i>Chemical Communications</i> , 2007, , 162-164.	2.2	37
121	An electrochemical sensor for rizatriptan benzoate determination using Fe ₃ O ₄ nanoparticle/multiwall carbon nanotube-modified glassy carbon electrode in real samples. <i>Materials Science and Engineering C</i> , 2016, 63, 637-643.	3.8	37
122	Spectrophotometric determination of trace amounts of selenium with catalytic reduction of bromate by hydrazine in hydrochloric acid media. <i>Talanta</i> , 1992, 39, 993-996.	2.9	36
123	Solid phase extraction flame atomic absorption spectrometric determination of ultra-trace beryllium. <i>Analytica Chimica Acta</i> , 2001, 437, 17-22.	2.6	36
124	Simultaneous spectrophotometric determination of iodate and bromate in water samples by the method of mean centering of ratio kinetic profiles. <i>Journal of Hazardous Materials</i> , 2005, 123, 250-255.	6.5	36
125	Application of nickel zinc ferrite/graphene nanocomposite as a modifier for fabrication of a sensitive electrochemical sensor for determination of omeprazole in real samples. <i>Journal of Colloid and Interface Science</i> , 2017, 495, 1-8.	5.0	36
126	Application of magnetic nanomaterials in electroanalytical methods: A review. <i>Talanta</i> , 2021, 225, 121974.	2.9	36

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127	Artificial neural networks for determination of enantiomeric composition of α -phenylglycine using UV spectra of cyclodextrin host-guest complexes. Comparison of feed-forward and radial basis function networks. <i>Talanta</i> , 2008, 75, 91-98.	2.9	35
128	Improvement in the performance of a Pb^{2+} selective potentiometric sensor using modified core/shell SiO_2/Fe_3O_4 nano-structure. <i>Journal of Molecular Liquids</i> , 2014, 199, 108-114.	2.3	35
129	Highly fluorescent nitrogen-doped graphene quantum dots as a green, economical and facile sensor for the determination of sunitinib in real samples. <i>New Journal of Chemistry</i> , 2017, 41, 6875-6882.	1.4	35
130	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
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135	Spectrophotometric determination of conditional acidity constant as a function of β -cyclodextrin concentration for some organic acids using rank annihilation factor analysis. <i>Analytica Chimica Acta</i> , 2006, 569, 267-274.	2.6	34
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140	$CoFe_2O_4$ nanoparticles modified carbon paste electrode for simultaneous detection of oxycodone and codeine in human plasma and urine. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 263-271.	4.0	33
141	Multiwalled carbon nanotube paste electrode as an easy, inexpensive and highly selective sensor for voltammetric determination of Risperidone. <i>Analytical Methods</i> , 2012, 4, 1415.	1.3	32
142	Synthesis of β - Fe_2O_3/TiO_2 nanocomposite and its application in removal of dyes from water samples by adsorption and degradation processes. <i>RSC Advances</i> , 2014, 4, 44841-44847.	1.7	32
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200	Spectrophotometric Determination of Fluoxetine by Batch and Flow Injection Methods. <i>Chemical and Pharmaceutical Bulletin</i> , 2006, 54, 1642-1646.	0.6	19
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