

Hossein Tavallali

List of Publications by Year in descending order

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58
papers

890
citations

471509

17
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501196

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all docs

58
docs citations

58
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of low cost activated carbon from Myrtus communis and pomegranate and their efficient application for removal of Congo red from aqueous solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 86, 107-114.	3.9	136
2	Preconcentration and speciation of Cr(III) and Cr(VI) in water and soil samples by spectrometric detection via use of nanosized alumina-coated magnetite solid phase. Environmental Monitoring and Assessment, 2013, 185, 7723-7738.	2.7	51
3	The comparison of partial least squares and principal component regression in simultaneous spectrophotometric determination of ascorbic acid, dopamine and uric acid in real samples. Arabian Journal of Chemistry, 2017, 10, S3451-S3458.	4.9	48
4	Cloud Point Extraction for the Preconcentration of Silver and Palladium in Real Samples and Determination by Atomic Absorption Spectrometry. Clean - Soil, Air, Water, 2010, 38, 242-247.	1.1	42
5	A novel development of dithizone as a dual-analyte colorimetric chemosensor: Detection and determination of cyanide and cobalt (II) ions in dimethyl sulfoxide/water media with biological applications. Journal of Photochemistry and Photobiology B: Biology, 2013, 125, 121-130.	3.8	39
6	Dithizone as novel and efficient chromogenic probe for cyanide detection in aqueous media through nucleophilic addition into diazenylthione moiety. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 139-146.	3.9	39
7	PVA-Based Sol-Gel Synthesis and Characterization of Cd-ZnO Nanocomposite. Journal of Cluster Science, 2010, 21, 1-9.	3.3	29
8	A novel rapid synthesis of Fe ₂ O ₃ /graphene nanocomposite using ferrate(VI) and its application as a new kind of nanocomposite modified electrode as electrochemical sensor. Materials Research Bulletin, 2015, 70, 856-864.	5.2	29
9	A novel and simple fluorescent and colorimetric primary chemosensor based on Congo-Red for sulfite and resultant complex as secondary fluorescent chemosensor towards carbonate ions: Fluorescent probe mimicking INHIBIT logic gate. Talanta, 2016, 149, 168-177.	5.5	29
10	A novel dye-based colorimetric chemosensors for sequential detection of Cu ²⁺ and cysteine in aqueous solution. Analytical Biochemistry, 2019, 583, 113376.	2.4	29
11	A new application of bromopyrogallol red as a selective and sensitive competition assay for recognition and determination of acetate anion in DMSO/water media. Dyes and Pigments, 2012, 94, 541-547.	3.7	27
12	A novel cyanide-selective colorimetric and fluorescent chemosensor: First molecular security keypad lock based on phosphotungstic acid and CN ⁻ inputs. Journal of Hazardous Materials, 2014, 266, 189-197.	12.4	25
13	Colorimetric detection of copper and chloride in DMSO/H ₂ O media using bromopyrogallol red as a chemosensor with analytical applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 97, 60-65.	3.9	22
14	An efficient and ultrasensitive rhodamine B-based reversible colorimetric chemosensor for naked-eye recognition of molybdenum and citrate ions in aqueous solution: Sensing behavior and logic operation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 139, 253-261.	3.9	22
15	A new pincer-type "naked-eye" colorimetric probe for Cu ²⁺ determination in 80% water media and its application as a solid state sensor and an efficient antibacterial product. Sensors and Actuators B: Chemical, 2017, 244, 1121-1128.	7.8	19
16	Kinetic Spectrophotometric Determination of Vanadium by Catalytic Effect on the Indigo Carmine-Bromate Reaction. Analytical Letters, 1998, 31, 193-206.	1.8	18
17	Developing a new method of 4-(2-pyridylazo)-resorcinol immobilization on triacetylcellulose membrane for selective determination of Ga ³⁺ in water samples. Sensors and Actuators B: Chemical, 2011, 159, 154-158.	7.8	17
18	A highly selective optode for determination of Hg (II) by a modified immobilization of indigo carmine on a triacetylcellulose membrane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 89, 216-221.	3.9	17

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19	An Efficient and Simultaneous Analysis of Caffeine and Paracetamol in Pharmaceutical Formulations Using TLC with a Fluorescence Plate Reader. <i>Journal of AOAC INTERNATIONAL</i> , 2011, 94, 1094-1099.	1.5	16
20	Chemically modified multiwalled carbon nanotubes as efficient and selective sorbent for separation and preconcentration of trace amount of Co(II), Cd(II), Pb(II), and Pd(II). <i>Arabian Journal of Chemistry</i> , 2019, 12, 1487-1495.	4.9	16
21	Simultaneous kinetic spectrophotometric determination of vanadium(V) and iron(III). <i>Talanta</i> , 1998, 47, 479-485.	5.5	14
22	Determination of Copper and Zinc Ions by Flame-AAS After Preconcentration Using Sodium Dodecyl Sulfate Coated Alumina Modified with 3-(1 <i>H</i> -Indol-3-yl)- β ,4,5-trimethyl-1 <i>H</i> -indole. <i>Chinese Journal of Chemistry</i> , 2009, 27, 2066-2072.	4.1	14
23	An ultrasensitive and highly selective fluorescent and colorimetric chemosensor for citrate ions based on rhodamine B and its application as the first molecular security keypad lock based on phosphomolybdic acid and citrate inputs. <i>Journal of Luminescence</i> , 2015, 160, 328-336.	3.1	14
24	New Application of Chemically Modified Multiwalled Carbon Nanotubes with Thiosemicarbazide as a Sorbent for Separation and Preconcentration of Trace Amounts of Co(II), Cd(II), Cu(II), and Zn(II) in Environmental and Biological Samples Prior to Determination by Flame Atomic Absorption Spectrometry. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 114-121.	1.4	13
25	Immobilizing Some Heavy Metals by Mixing Contaminated Soils With Phosphate Admixtures. <i>International Journal of Civil Engineering</i> , 2016, 14, 75-81.	2.0	13
26	Ion-flotation Separation of Cd(II), Co(II) and Pb(II) Traces Using a New Ligand before Their Flame Atomic Absorption Spectrometric Determinations in Colored Hair and Dryer Agents of Paint. <i>Journal of the Chinese Chemical Society</i> , 2011, 58, 199-206.	1.4	12
27	A novel and efficient colorimetric chemosensor for detection and determination of biologically important ions in DMSO/H ₂ O media using bromo pyrogallol red chemosensors with analytical applications. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 115, 51-57.	3.8	11
28	Indigo Carmine-Cu complex probe exhibiting dual colorimetric/fluorimetric sensing for selective determination of mono hydrogen phosphate ion and its logic behavior. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 319-331.	3.9	10
29	A selective detection of fluoride ions in DMSO by fluorescent and colorimetry competition assays based on 4-bromo-2,6-bis-(hydroxymethyl)phenol. <i>Chinese Chemical Letters</i> , 2011, 22, 193-196.	9.0	8
30	Reactive Blue 4 as a Single Colorimetric Chemosensor for Sequential Determination of Multiple Analytes with Different Optical Responses in Aqueous Media: Cu ²⁺ -Cysteine Using a Metal Ion Displacement and Cu ²⁺ -Arginine Through the Host-Guest Interaction. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 913-937.	2.9	8
31	Development of a Reversible Indicator Displacement Assay Based on the 1-(2-Pyridylazo)-2-naphthol for Colorimetric Determination of Cysteine in Biological Samples and Its Application to Constructing the Paper Test Strips and a Molecular-Scale Set/Reset Memorized Device. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 85-102.	2.9	8
32	Spectrophotometric simultaneous determination of orotic acid, creatinine and uric acid by orthogonal signal correction-partial least squares in spiked real samples. <i>Drug Testing and Analysis</i> , 2013, 5, 353-360.	2.6	7
33	Sodium dodecyl sulfate coated γ -alumina support modified by a new Schiff base for solid phase extraction and flame-AAS determination of lead and copper ions. <i>Quimica Nova</i> , 2013, 36, 1354-1359.	0.3	7
34	Chemically functionalized γ -alumina with Alizarin red-s for separation and determination of trace amounts of Pb(II) and Ag(I) ions by solid phase extraction-Flame Atomic Absorption Spectrometry in environmental and biological samples. <i>Arabian Journal of Chemistry</i> , 2017, 10, S2090-S2097.	4.9	7
35	A novel optode sensor for the determination of palladium(II) in water and a hydrogenation catalyst. <i>Journal of the Serbian Chemical Society</i> , 2009, 74, 311-315.	0.8	6
36	Cloud point extraction-atomic absorption spectrometry for pre-concentration and determination of cadmium in cigarette samples. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 4273-4279.	2.7	6

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37	Development of a New Colorimetric Chemosensor for Selective Determination of Urinary and Vegetable Oxalate Concentration Through an Indicator-Displacement Assay (IDA) in Aqueous Media. <i>Food Technology and Biotechnology</i> , 2018, 56, 329-336.	2.1	6
38	Dye/metal ion-based chemosensing ensemble towards l-histidine and l-lysine determination in water via different optical responses. <i>Analytical Biochemistry</i> , 2020, 604, 113811.	2.4	6
39	Determination of Cadmium Ions by Designing an Optode Based on Immobilization of Dithizone on a Triacetylcellulose Membrane in Polluted Soil and Water Samples. <i>Journal of the Korean Chemical Society</i> , 2009, 53, 144-151.	0.2	6
40	USING AN INDOL DERIVATIVE AS COMPLEXING AGENT FOR CLOUD POINT PRECONCENTRATION AND DETERMINATION OF MAGNESIUM AND SILVER IONS IN VARIOUS SAMPLES BY FAAS. <i>Journal of the Chilean Chemical Society</i> , 2012, 57, 1134-1139.	1.2	5
41	A reversible and dual responsive sensing approach for determination of ascorbate ion in fruit juice, biological, and pharmaceutical samples by use of available triaryl methane dye and its application to constructing a molecular logic gate and a set/reset memorized device. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 215, 276-289.	3.9	5
42	Simultaneous detection of SO ₃ ²⁻ and PO ₄ ³⁻ anions, in aqueous solutions based on 4-(2-Pyridylazo) resorcinol (PAR) as a colorimetric chemosensor and analytical applications. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 3652-3671.	3.3	5
43	Synthesis and Application of Glutaric Dihydrazide Modified Multiwalled Carbon Nanotubes for Selective Solid-Phase Extraction and Preconcentration of Cu(II), Zn(II), Ni(II), and Fe(III). <i>Journal of AOAC INTERNATIONAL</i> , 2012, 95, 897-902.	1.5	4
44	An efficient and simultaneous analysis of caffeine and paracetamol in pharmaceutical formulations using TLC with a fluorescence plate reader. <i>Journal of AOAC INTERNATIONAL</i> , 2011, 94, 1094-9.	1.5	4
45	Design and characteristics of tin (II) optode based on immobilization of dithizone on a triacetylcellulose membrane and its application in canned foods. <i>Monatshefte für Chemie</i> , 2009, 140, 1149-1154.	1.8	3
46	Efficient ensemble and IDA system based on the metal binding motif for highly sensitive and selective detection and determination of carbonate and citrate ions. <i>International Journal of Environmental Analytical Chemistry</i> , 2019, 99, 776-795.	3.3	3
47	Novel use of calmagite as a fast and easy colorimetric anion chemosensor and solid-state sensor for carbonate ion in running water. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-15.	3.3	3
48	A novel sensitive and fast colorimetric assay for determination of benzidine as a carcinogen aromatic amine based on Bromopyrogallol red. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 662-674.	3.3	3
49	A novel colorimetric chemosensor for selective and highly sensitive determination of thiourea: An approach toward a molecular keypad lock. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 1279-1290.	1.4	3
50	A novel design of multiple ligands for ultrasensitive colorimetric chemosensor of glutathione in plasma sample. <i>Analytical Biochemistry</i> , 2022, 637, 114475.	2.4	3
51	Bismuth triggered selective colorimetric naked-eye detection for oxalate ions based on bromopyrogallol red that works as a molecular keypad lock. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 648-667.	3.3	1
52	A developed chromogenic probe for determination of dual analyte with logic gates function and keypad-lock. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 433-449.	3.3	1
53	Bioactive compounds of <i>Punica granatum</i> L. wastes by high performance liquid chromatography analysis. <i>Natural Product Research</i> , 2022, , 1-5.	1.8	1
54	Sensitive Ion-Flotation Separation of Ag(I) Traces Using 2-(2-Methoxyphenyl)benzimidazole before Flame Atomic Absorption Spectrometric Determination in Water. <i>Clean - Soil, Air, Water</i> , 2012, 40, 640-647.	1.1	0

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55	A New Triazene Ligand Immobilized on Triacetylcellulose Membrane for Selective Determination of Mercury Ion. Journal of the Brazilian Chemical Society, 2014, , .	0.6	0
56	Determination of Ammonia by Designing an Optode Based on Immobilization of a Co(III)-Schiff Base Complex on a Triacetylcellulose Membrane. Journal of AOAC INTERNATIONAL, 2014, 97, 259-262.	1.5	0
57	Developing Fast and Facile Method for Speciation Analysis of Vanadium (V/IV) Ions with Calmagite Immobilization on Triacetyl Cellulose Membrane in Water Samples. Journal of the Brazilian Chemical Society, 2015, , .	0.6	0
58	Multivariate investigation of interaction between porphyrin ligands and human telomeric DNA. Journal of the Iranian Chemical Society, 2018, 15, 587-593.	2.2	0