

Hossein Tavallali

List of Publications by Year in descending order

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58
papers

890
citations

471509

17
h-index

501196

28
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58
all docs

58
docs citations

58
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	A novel dye-based colorimetric chemosensors for sequential detection of Cu^{2+} and cysteine in aqueous solution. <i>Analytical Biochemistry</i> , 2019, 583, 113376.	2.4	29
12	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
13	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
14	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
15	Multivariate investigation of interaction between porphyrin ligands and human telomeric DNA. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 587-593.	2.2	0
16	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
17	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
18	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. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 1121-1128.	7.8	19

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19	The comparison of partial least squares and principal component regression in simultaneous spectrophotometric determination of ascorbic acid, dopamine and uric acid in real samples. <i>Arabian Journal of Chemistry</i> , 2017, 10, S3451-S3458.	4.9	48
20	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. <i>Flame Atomic Absorption Spectrometry in environmental and biological samples. Arabian Journal of Chemistry</i> , 2017, 10, S2090-S2097.	4.9	7
21	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
22	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. <i>Talanta</i> , 2016, 149, 168-177.	5.5	29
23	Developing Fast and Facile Method for Speciation Analysis of Vanadium (V/IV) Ions with Calmagite Immobilization on Triacetyl Cellulose Membrane in Water Samples. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	0
24	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
25	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 139, 253-261.	3.9	22
26	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. <i>Materials Research Bulletin</i> , 2015, 70, 856-864.	5.2	29
27	A New Triazene Ligand Immobilized on Triacetylcellulose Membrane for Selective Determination of Mercury Ion. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	0
28	Determination of Ammonia by Designing an Optode Based on Immobilization of a Co(III)-Schiff Base Complex on a Triacetylcellulose Membrane. <i>Journal of AOAC INTERNATIONAL</i> , 2014, 97, 259-262.	1.5	0
29	Dithizone as novel and efficient chromogenic probe for cyanide detection in aqueous media through nucleophilic addition into diazenylthione moiety. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 139-146.	3.9	39
30	A novel cyanide-selective colorimetric and fluorescent chemosensor: First molecular security keypad lock based on phosphotungstic acid and CN ⁻ inputs. <i>Journal of Hazardous Materials</i> , 2014, 266, 189-197.	12.4	25
31	Spectrophotometric simultaneous determination of orotic acid, creatinine and uric acid by orthogonal signal correction. <i>partial least squares in spiked real samples. Drug Testing and Analysis</i> , 2013, 5, 353-360.	2.6	7
32	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. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 125, 121-130.	3.8	39
33	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. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7723-7738.	2.7	51
34	Cloud point extraction. <i>atomic absorption spectrometry for pre-concentration and determination of cadmium in cigarette samples. Environmental Monitoring and Assessment</i> , 2013, 185, 4273-4279.	2.7	6
35	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
36	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

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37	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
38	Colorimetric detection of copper and chloride in DMSO/H ₂ O media using bromopyrogallol red as a chemosensor with analytical applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 60-65.	3.9	22
39	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
40	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
41	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
42	A new application of bromopyrogallol red as a selective and sensitive competition assay for recognition and determination of acetate anion in DMSO/water media. <i>Dyes and Pigments</i> , 2012, 94, 541-547.	3.7	27
43	Preparation of low cost activated carbon from <i>Myrtus communis</i> and pomegranate and their efficient application for removal of Congo red from aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 107-114.	3.9	136
44	A highly selective optode for determination of Hg (II) by a modified immobilization of indigo carmine on a triacetylcellulose membrane. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 89, 216-221.	3.9	17
45	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
46	Developing a new method of 4-(2-pyridylazo)-resorcinol immobilization on triacetylcellulose membrane for selective determination of Ga ³⁺ in water samples. <i>Sensors and Actuators B: Chemical</i> , 2011, 159, 154-158.	7.8	17
47	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
48	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
49	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
50	PVA-Based Sol-Gel Synthesis and Characterization of CdO-ZnO Nanocomposite. <i>Journal of Cluster Science</i> , 2010, 21, 1-9.	3.3	29
51	Cloud Point Extraction for the Preconcentration of Silver and Palladium in Real Samples and Determination by Atomic Absorption Spectrometry. <i>Clean - Soil, Air, Water</i> , 2010, 38, 242-247.	1.1	42
52	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
53	Determination of Copper and Zinc Ions by Flame-AAS After Preconcentration Using Sodium Dodecyl Sulfate Coated Alumina Modified with 3-(1-Hydroxy-4-(3,4,5-trimethyl)-1H-indol-3-yl)propanoic acid. <i>Chinese Journal of Chemistry</i> , 2009, 27, 2066-2072.	1.1	14
54	Design and characteristics of tin (II) optode based on immobilization of dithizone on a triacetylcellulose membrane and its application in canned foods. <i>Monatshfte für Chemie</i> , 2009, 140, 1149-1154.	1.8	3

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55	Determination of Cadmium Ions by Designing an Optode Based on Immobilization of Dithizone on a Triacetylcellulose Membrane in Polluted Soil and Water Samples. Journal of the Korean Chemical Society, 2009, 53, 144-151.	0.2	6
56	Simultaneous kinetic spectrophotometric determination of vanadium(V) and iron(III). Talanta, 1998, 47, 479-485.	5.5	14
57	Kinetic Spectrophotometric Determination of Vanadium by Catalytic Effect on the Indigo Carmine-Bromate Reaction. Analytical Letters, 1998, 31, 193-206.	1.8	18
58	Novel use of calmagite as a fast and easy colorimetric anion chemosensor and solid-state sensor for carbonate ion in running water. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	3.3	3