

# Morteza Akhond

## List of Publications by Year in descending order

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85  
papers

2,146  
citations

201575

27  
h-index

276775

41  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic Algorithm Applied to the Selection of Factors in Principal Component-Artificial Neural Networks: Application to QSAR Study of Calcium Channel Antagonist Activity of 1,4-Dihydropyridines (Nifedipine Analogous). <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1328-1334.	2.8	112
2	A comparative study between PCR and PLS in simultaneous spectrophotometric determination of diphenylamine, aniline, and phenol: Effect of wavelength selection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 67, 958-965.	2.0	109
3	Ant colony optimisation: a powerful tool for wavelength selection. <i>Journal of Chemometrics</i> , 2006, 20, 146-157.	0.7	96
4	QSAR study of the calcium channel antagonist activity of some recently synthesized dihydropyridine derivatives. An application of genetic algorithm for variable selection in MLR and PLS methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 64, 91-99.	1.8	92
5	Extraction and high performance liquid chromatographic determination of 3-indole butyric acid in pea plants by using imidazolium-based ionic liquids as extractant. <i>Talanta</i> , 2008, 77, 407-411.	2.9	72
6	Iodide-selective carbon paste electrodes based on recently synthesized Schiff base complexes of Fe(III). <i>Analytica Chimica Acta</i> , 2001, 450, 37-44.	2.6	61
7	A new cerium (III)-selective membrane electrode based on 2-aminobenzothiazole. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 410-415.	4.0	58
8	Specific uphill transport of Cd <sup>2+</sup> ion by a cooperative carrier composed of aza-18-crown-6 and palmitic acid. <i>Journal of Membrane Science</i> , 1996, 117, 221-226.	4.1	57
9	Perchlorate selective membrane electrodes based on a phosphorus(V)-tetraphenylporphyrin complex. <i>Sensors and Actuators B: Chemical</i> , 2003, 89, 9-14.	4.0	49
10	Quantitative structure-property relationship study of acidity constants of some 9,10-anthraquinone derivatives using multiple linear regression and partial least-squares procedures. <i>Talanta</i> , 2001, 54, 1113-1120.	2.9	45
11	Multicomponent acid-base titration by principal component-artificial neural network calibration. <i>Analytica Chimica Acta</i> , 2002, 461, 147-153.	2.6	45
12	An efficient variable selection method based on the use of external memory in ant colony optimization. Application to QSAR/QSPR studies. <i>Analytica Chimica Acta</i> , 2009, 646, 39-46.	2.6	45
13	Uranyl-selective PVC membrane electrodes based on some recently synthesized benzo-substituted macrocyclic diamides. <i>Talanta</i> , 2002, 58, 237-246.	2.9	44
14	A study of the photo-degradation kinetics of nifedipine by multivariate curve resolution analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 31, 1013-1019.	1.4	43
15	Efficient electrocatalytic oxidation and determination of isoniazid on carbon ionic liquid electrode modified with electrodeposited palladium nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2016, 761, 1-7.	1.9	42
16	Quantitative Structure-Activity Relationship Study of Recently Synthesized 1, 4-Dihydropyridine Calcium Channel Antagonists. Application of the Hansch Analysis Method. <i>Archiv Der Pharmazie</i> , 2002, 335, 472-480.	2.1	37
17	Partitioning of acidic, basic and neutral amino acids into imidazolium-based ionic liquids. <i>Amino Acids</i> , 2010, 39, 167-174.	1.2	37
18	Highly sensitive colorimetric determination of amoxicillin in pharmaceutical formulations based on induced aggregation of gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 143, 223-229.	2.0	37

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19	Gas-assisted dispersive liquid-phase microextraction using ionic liquid as extracting solvent for spectrophotometric speciation of copper. <i>Talanta</i> , 2016, 154, 461-466.	2.9	37
20	Lanthanum-selective membrane electrode based on 2,2'-dithiodipyridine. <i>Analytica Chimica Acta</i> , 2005, 531, 179-184.	2.6	36
21	Di (n-propyl) thiuram disulfide bonded on silica gel as a new sorbent for separation, preconcentration, and measurement of silver ion from aqueous samples. <i>Separation and Purification Technology</i> , 2006, 52, 53-59.	3.9	36
22	Highly Efficient and Selective Membrane Transport of Silver(I) Ion by a Cooperative Carrier Composed of Aza-18-crown-6 and Palmitic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1997, 70, 339-343.	2.0	34
23	Efficient Immobilization of Porcine Pancreatic $\alpha$ -Amylase on Amino-Functionalized Magnetite Nanoparticles: Characterization and Stability Evaluation of the Immobilized Enzyme. <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 954-968.	1.4	34
24	Highly Selective and Efficient Membrane Transport of Copper as $\text{Cu}(\text{SCN})_2^{4-}$ Ion Using $\text{K}^+$ -Dicyclohexyl-18-crown-6 as Carrier. <i>Separation Science and Technology</i> , 1995, 30, 3061-3072.	1.3	32
25	Electrochemical sensing of hydrogen peroxide using a glassy carbon electrode modified with multiwalled carbon nanotubes and zein nanoparticle composites: application to HepG2 cancer cell detection. <i>Mikrochimica Acta</i> , 2020, 187, 105.	2.5	31
26	A novel selective and sensitive multianozyme colorimetric method for glutathione detection by using an indamine polymer. <i>Analytica Chimica Acta</i> , 2020, 1127, 1-8.	2.6	31
27	A three-dimensional origami microfluidic device for paper chromatography: Application to quantification of Tartrazine and Indigo carmine in food samples. <i>Journal of Chromatography A</i> , 2020, 1621, 461049.	1.8	30
28	Biochemical characterization and stability assessment of <i>Rhizopus oryzae</i> lipase covalently immobilized on amino-functionalized magnetic nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 300-307.	3.6	29
29	Broad-Range Optical pH Sensor Based on Binary Mixed-Indicator Doped Sol-Gel Film and Application of Artificial Neural Network. <i>Analytical Letters</i> , 2008, 41, 3113-3123.	1.0	27
30	Development of a New Copper(II) Ion-selective Poly(vinyl chloride) Membrane Electrode Based on 2-Mercaptobenzoxazole. <i>Bulletin of the Korean Chemical Society</i> , 2005, 26, 882-886.	1.0	27
31	Highly Selective Chromium(III) PVC-Membrane Electrodes Based on Some Recently Synthesized Schiff's Bases. <i>Electroanalysis</i> , 2005, 17, 776-782.	1.5	26
32	Novel PVC-membrane potentiometric sensors based on a recently synthesized sulfur-containing macrocyclic diamide for $\text{Cd}^{2+}$ ion. Application to flow-injection potentiometry. <i>Journal of Hazardous Materials</i> , 2009, 172, 566-573.	6.5	26
33	Highly Efficient Cooperative Membrane Transport of Lead(II) Ions by Aza-18-crown-6 and Palmitic Acid. <i>Separation Science and Technology</i> , 1997, 32, 1223-1232.	1.3	25
34	Introducing a nanozyme-based sensor for selective and sensitive detection of mercury(II) using its inhibiting effect on production of an indamine polymer through a stable n-electron irreversible system. <i>Chemical Papers</i> , 2020, 74, 1321-1330.	1.0	24
35	A field-applicable colorimetric assay for notorious explosive triacetone triperoxide through nanozyme-catalyzed irreversible oxidation of 3,3'-diaminobenzidine. <i>Mikrochimica Acta</i> , 2020, 187, 431.	2.5	24
36	Building optimal regression tree by ant colony system's genetic algorithm: Application to modeling of melting points. <i>Analytica Chimica Acta</i> , 2011, 704, 57-62.	2.6	23

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37	Temperature-controlled ionic liquid-based dispersive liquid-phase microextraction, preconcentration and quantification of nano-amounts of silver ion by using disulfiram as complexing agent. <i>Analytical Methods</i> , 2011, 3, 2354.	1.3	22
38	Determination of enantiomer compositions of propranolol enantiomers by chiral ionic liquid as a chiral selector and the UV-assisted spectrophotometric method. <i>Analytical Methods</i> , 2012, 4, 2283.	1.3	22
39	Array of potentiometric sensors for simultaneous determination of copper, silver, and cadmium ions in complex mixtures. <i>Electrochimica Acta</i> , 2012, 62, 84-90.	2.6	21
40	Highly sensitive determination of nitrite using a carbon ionic liquid electrode modified with Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticle. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 1293-1301.	1.2	21
41	Simultaneous Determination of Promethazine, Chlorpromazine, and Perphenazine by Multivariate Calibration Methods and Derivative Spectrophotometry. <i>Journal of AOAC INTERNATIONAL</i> , 2002, 85, 555-562.	0.7	20
42	Simultaneous Determination of Guaifenesin and Theophylline by Chemometrics Methods. <i>Analytical Letters</i> , 2010, 43, 687-700.	1.0	20
43	Simultaneous determination of captopril and hydrochlorothiazide by using a carbon ionic liquid electrode modified with copper hydroxide nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 97.	2.5	20
44	Benzil derivative of polyacryloylhydrazide as a new sorbent for separation, preconcentration and measurement of silver(I) ion. <i>Separation and Purification Technology</i> , 2007, 56, 231-236.	3.9	19
45	Characterization of a new uranyl selective bulk optode; utilizing synergistic effect in optical sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 34-39.	4.0	19
46	Determination of amylose in Iranian rice by multivariate calibration of the surface plasmon resonance spectra of silver nanoparticles. <i>Analyst</i> , 2011, 136, 1760.	1.7	19
47	Development of an optical sensor for determination of zinc by application of PC-ANN. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 181-186.	4.0	18
48	Title is missing!. <i>Journal of Solution Chemistry</i> , 2003, 32, 215-226.	0.6	17
49	New Macrocyclic Diamides as Neutral Ionophores for Highly Selective and Sensitive PVC-Membrane Electrodes for Be <sup>2+</sup> Ion. <i>Electroanalysis</i> , 2004, 16, 282-288.	1.5	17
50	Partitioning of reactive red-120, 4-(2-pyridylazo)-resorcinol, and methyl orange in ionic liquid-based aqueous biphasic systems. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 137-142.	3.3	17
51	High throughput green reduction of tris(p-nitrophenyl)amine at ambient temperature over homogenous AgNPs as H-transfer catalyst. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	0.7	17
52	Quantitative Structure–Micellization Relationship Study of Gemini Surfactants Using Genetic-PLS and Genetic-MLR. <i>QSAR and Combinatorial Science</i> , 2004, 23, 416-425.	1.5	16
53	Combination of Ant Colony Optimization with Various Local Search Strategies. A Novel Method for Variable Selection in Multivariate Calibration and QSPR Study. <i>QSAR and Combinatorial Science</i> , 2009, 28, 1263-1275.	1.5	16
54	Dye-Affinity Partitioning of Acidic, Basic, and Neutral Proteins in Ionic Liquid-Based Aqueous Biphasic Systems. <i>Separation Science and Technology</i> , 2013, 48, 2372-2380.	1.3	16

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55	Accelerating Surface Photoreactions Using MoS <sub>2</sub> –FeS <sub>2</sub> Nanoadsorbents: Photoreduction of Cr(VI) to Cr(III) and Photodegradation of Methylene Blue. <i>Inorganic Chemistry</i> , 2022, 61, 1118-1129.	1.9	15
56	Specific Uphill Transport of Zinc as Zn(SCN) <sub>4</sub> <sup>2-</sup> Ion using Na <sup>+</sup> –Dicyclohexyl–1,8–Crown–6 as Carrier. <i>Journal of the Chinese Chemical Society</i> , 1996, 43, 225-229.	0.8	14
57	Highly sensitive determination and selective immobilization of amoxicillin using carbon ionic liquid electrode. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2491-2499.	1.2	14
58	Gold Nanoparticle Decorated Multiwall Carbon Nanotubes/Ionic Liquid Composite Film on Glassy Carbon Electrode for Sensitive and Simultaneous Electrochemical Determination of Dihydroxybenzene Isomers. <i>IEEE Sensors Journal</i> , 2017, 17, 5030-5037.	2.4	12
59	Quantitative monitoring of the progress of organic reactions using multivariate image analysis-thin layer chromatography (MIA-TLC) method. <i>Analytical Methods</i> , 2012, 4, 933.	1.3	11
60	Highly Selective Transport of Ag <sup>+</sup> Ion through a Liquid Membrane Containing 2-Mercaptobenzothiazole as a Carrier. <i>Bulletin of the Korean Chemical Society</i> , 2003, 24, 489-493.	1.0	11
61	Electronic tongue for simultaneous determination of cyanide, thiocyanate and iodide. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 88, 27-33.	2.5	10
62	Behavior of Iodine in Binary Mixtures of Cyclohexane with Dioxane and Tetrahydrofuran Using a Multivariate Curve Resolution Technique. <i>Journal of Solution Chemistry</i> , 2003, 32, 819-829.	0.6	9
63	Simultaneous determination of ascorbic, citric, and tartaric acids by potentiometric titration with PLS calibration. <i>Journal of Analytical Chemistry</i> , 2006, 61, 804-808.	0.4	9
64	Cyanide selective electrodes based on a porphyrinatoiron(III) chloride derivative. <i>Journal of Electroanalytical Chemistry</i> , 2013, 689, 63-68.	1.9	9
65	Characterizing Carbon Ring-C <sub>3</sub> N <sub>4</sub> Nanosheets as a Light-Harvesting and Charge Carrier Transfer Agent: Photodegradation of Methylene Blue and Photoconversion of CO <sub>2</sub> to CH <sub>4</sub> as Case Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 3893-3906.	1.8	8
66	Direct electroiodimetric sensing of reducing biomolecules using a modified multiwall carbon nanotube/ionic liquid paste electrode by tetra-n-octylammonium triiodide. <i>Electrochimica Acta</i> , 2018, 292, 477-488.	2.6	7
67	Carrier-mediated hollow fiber liquid-phase microextraction for preconcentration followed by spectrophotometric determination of amoxicillin. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 2683-2692.	1.2	7
68	A nanosensor for determination of glucose based on silver nanoparticles as fluorescence probes. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 2023-2030.	1.2	6
69	Highly Correlating Distance/Connectivity-Based Topological Indices. 1:QSPR Studies of Alkanes. <i>Bulletin of the Korean Chemical Society</i> , 2004, 25, 253-259.	1.0	6
70	Ion exchange ability of N-octylpyridinium hexafluorophosphate in carbon ionic liquid electrode for efficient adsorptive preconcentration and selective determination of ultratrace gold chlorocomplexes. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1113-1121.	1.2	5
71	A novel nanoplatfrom encapsulating glucose oxidase for spectrophotometric biosensing of hydrogen peroxide and glucose. <i>Analytical Methods</i> , 2020, 12, 345-357.	1.3	5
72	Novel Copper(II)–Selective Membrane Electrode Based on a New Synthesized Schiff Base. <i>Journal of the Chinese Chemical Society</i> , 2007, 54, 331-337.	0.8	4

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73	Synthesis, characterisation and application of two new lariat crown ethers in construction of PVC membrane, coated wire and coated graphite electrodes: application to flow injection potentiometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 33-48.	1.8	4
74	Two-approach study for preparing stable colloidal gold nanoparticles in organic solvents by using 1-dodecyl-3-methylimidazolium bromide as an efficient capping and phase transfer agent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 486, 192-202.	2.3	4
75	Reflection scanometry as a new detection technique in temperature-controlled ionic liquid-based dispersive liquid phase microextraction. <i>Analytical Methods</i> , 2016, 8, 111-118.	1.3	4
76	Silver nanoparticles loaded on a hybrid of graphitic carbon nitride and reduced graphene oxide as a modifier for carbon paste electrode in determination of isoniazid. <i>Monatshefte für Chemie</i> , 2020, 151, 1027-1037.	0.9	4
77	Spectrophotometric Determination and Solvent Extraction of Osmium(VIII) with 3,4-Dihydro-4,4,6-Trimethyl-2-(1H)-Pyrimidinethione as a Reagent. <i>Analytical Letters</i> , 1987, 20, 29-37.	1.0	3
78	Highly Copper(II) Ion-selective Transport through Liquid Membrane Containing 1-(2-Pyridylazo)-2-naphthol.. <i>Analytical Sciences</i> , 2002, 18, 1051-1054.	0.8	3
79	Simultaneous Determination of Chlorpyrifos and Carbaryl by Spectrophotometry and Boosting Partial Least Squares. <i>Journal of the Brazilian Chemical Society</i> , 2013, , .	0.6	3
80	Hydroquinone monosulfonate-doped polypyrrole electrodeposited on very low cost commercial junction field effect transistors as a novel ion sensitive field effect transistor pH sensor. <i>Journal of the Iranian Chemical Society</i> , 2014, 11, 997-1004.	1.2	2
81	Laccase Activity Assay Using Surface Plasmon Resonance Band of Gold Nanoparticles Formed by Dopamine. <i>Plasmonics</i> , 2018, 13, 1409-1415.	1.8	2
82	On the dependency between principal components: Application to determine the rank of a matrix in an evolutionary process. <i>Journal of Chemometrics</i> , 2019, 33, e3102.	0.7	2
83	Genetic Algorithm Applied to the Selection of Factors in Principal Component-Artificial Neural Networks: Application of QSAR Study of Calcium Channel Antagonist Activity of 1,4-Dihydropyridines (Nifedipine Analogous).. <i>ChemInform</i> , 2003, 34, no.	0.1	1
84	Application of gold nanoparticles and l-cysteine double layer on commercial thin-layer chromatography plates as a new substrate for direct resolution of propranolol enantiomers. <i>Journal of Planar Chromatography - Modern TLC</i> , 2014, 27, 409-415.	0.6	1
85	Application of superparamagnetic polymer-coated magnetite nanoparticles for non-competitive removal of Cd(II) and Zn(II) from aqueous solutions. , 0, 79, 251-263.		1