

CURRICULUM VITAE

SAEED MASOUM

Place of birth: Ghom, Iran

Date of birth: February 27, 1976

Nationality: Iranian

Marital Status: Married

Address: Department of Analytical Chemistry,
Faculty of Chemistry, University of Kashan,
Kashan, Iran

Tel.: +98 31 55912338; **Fax:** +98 31 55912397

E-mail address: masoum@kashanu.ac.ir



EDUCATIONAL BACKGROUND

Ph.D.: Sharif University of Technology, Tehran, Iran (Analytical Chemistry), (Simulation and analysis of nuclear magnetic resonance spectroscopy data using chemometric techniques), 2001-2006.

Nine months stay as visiting student at INAPG, Paris, France, Prof. Douglas Neil Rutledge (2005).

M.Sc.: Shiraz University, Shiraz, Iran (Analytical Chemistry), (Simultaneous Multicomponent Determination of Catalysts Using Neural Networks through a Single Catalytic Kinetic Run), 1998-2000.

B.Sc.: Sharif University of Technology, Tehran, Iran (Chemistry), 1994-1998.

PROFESSIONAL BACKGROUND

Professor, University of Kashan, Kashan, Iran, August 2020.

Associate Professor, University of Kashan, Kashan, Iran, April 2016.

Assistant Professor, University of Kashan, Kashan, Iran, February 2008.

RESEARCH INTERESTS

Chemometrics: Artificial Intelligence (AI), Classification and Clustering Methods, Multivariate Calibration, Experimental Design

Nanotechnology: Quantum dots and their applications in the fields of chemical sensing, biosensing and bioimaging

Cosmetics industry: Enhancement of UV absorption behavior of cosmeceutical compounds in sunscreen creams, Encapsulation of herbal extracts in nanostructured lipid carriers and its use in cosmetic dermal products

TEACHING EXPERIENCE

B.Sc.: Analytical Chemistry (Fundamental and Instrumental) and related Laboratories, General Chemistry, Separation

M.Sc.: Advance Analytical Chemistry, Molecular Spectroscopy, New topics in Analytical Chemistry

Ph.D.: Statistics and Chemometrics for Analytical Chemistry

JOB EXPERIENCE

Experiences as a product specialist at **Metrohm (Switzerland)** distributor in Iran (Potentiometry, Ion Chromatography, Voltammetry), 2001- 2015

CEO of **Salamat Azin Parsian Company** (Manufacturer of Natural Cosmetic Products, Iran), since 2019 up till now

HONORS & AWARDS

Distinguished Researcher Award from University of Kashan (2014, 2015, 2018, 2019, 2020, 2021, 2022 & 2024)

Distinguished Teaching Award from University of Kashan (2012, 2014, 2017 2020, 2022, 2024 & 2025)

PUBLICATIONS

2026.....

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A. Aghajan, **S. Masoum**, A. H. Alinoori, FastCCS: A Deep Learning Framework for Accurate Collision Cross-Section Prediction from SMILES with Broad Applications in Cheminformatics and Omics, **Analytical Chemistry**, Accepted (2026)

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B. Mashalavi, **S. Masoum**, Eco-friendly fabrication of durable superhydrophobic coatings on wood using modified ZnO–TiO₂ nanocomposite and bio-based components, **Journal of Adhesion Science and Technology**, In press (2026)

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Z. Alibolandi, E. Seyed Hosseini, A. Mirsafi, M. H. Pourhanifeh, S. M. Jafari, A. Yasamian, H. Nikzad, **S. Masoum**, Molecular Insights into Paclitaxel and Curcumin-Loaded Carbon Dots: Computational and Experimental Evidence of NRF2 and Autophagy Modulation in Ovarian Cancer, **ACS Applied Bio Materials**, 8 (2025) 8673-8686

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P. Abazari, S.A. Hosseini Tafreshi, **S. Masoum**, Isotherm and kinetic study of Malachite green and Congo red removal using *Spirulina platensis*/CMC/ZnO as a green reusable bioadsorbent, **Journal of Industrial and Engineering Chemistry**, In press (2025)

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M. Mehran, **S. Masoum**, M. Memarzadeh, Enhancing stability and antimicrobial activity of spearmint essential oil nanoemulsion through formulation optimization by mixture experimental design and in vitro drug release, *Journal of Dispersion Science and Technology* 46 (2024) 108.

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M. Sadeghi Hosnijeh, S.A. Hosseini Tafreshi, **S. Masoum**, Nanophycology, the merging of nanoscience into algal research: A review, **Ecotoxicology and Environmental Safety**, 282 (2024) 116727

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M. Afzalkhah, **S. Masoum**, M. Behpour, Z. Tavangar, H. Naeimi, Corrosion inhibition behavior of 2-(4-methoxyphenyl)-benzothiazole on mild steel corrosion through design of experiments approach, quantum chemical calculations and molecular dynamics simulation, **Journal of the Iranian Chemical Society**, 21 (2024) 1439

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P. Abazari, **S. Masoum**, S.A. Hosseini Tafreshi, Optimization of culture conditions of *Scenedesmus sp.* algae and catalytic performance of a $\text{NiFe}_2\text{O}_4@\text{SiO}_2/\text{MgO}$ magnetic nano-catalyst for biodiesel production, **RSC Advances**, 14 (2024) 26152

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S.M. Jafari, **S. Masoum**, In-situ determination of ferric ions in human blood serum using highly fluorescence nitrogen and boron co-doped carbon dots nanoprobe without serum preparation step: A direct and solvent-free method, **Journal of Molecular Liquids**, 391 (2023) 123324

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H. Seifi, **S. Masoum**, A Study on Electrochemical Hydrogen Storage Performance of Bituminous Derived-Mesoporous Carbon/Zinc Oxide Nanocomposite, **Journal of the Iranian Chemical Society**, 20 (2023) 3059

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R. Mirzaei, N. Ravankhah, **S. Masoum**, A. Asadi, A. Sorooshian, Assessment of land use effect, mapping of human health risks and chemometric analysis of potential toxic elements in topsoils of Aran-o-Bidgol, Iran, **Environmental Geochemistry and Health**, 45 (2023) 8081

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M. Ghani, J.B. Raoof, **S. Masoum**, Template-directed synthesis of zeolitic imidazolate framework-8 derived Zn–Al layered double oxides decorated on the electrochemically anodized nanoporous aluminum substrate, **Journal of Chromatography A**, 1656 (2021) 462550

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F. Kiani Ghaleh sardi, M. Behpour, Z. Ramezani, **S. Masoum**, Simultaneous removal of Basic Blue41 and Basic Red46 dyes in binary aqueous systems via activated carbon from palm bio-waste: Optimization by central composite design, **Environmental Technology & Innovation**, 24 (2021) 102039

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S.M. Jafari, **S. Masoum**, S.A.H. Tafreshi, A microlagal-based carbonaceous sensor for enzymatic determination of glucose in blood serum, **Journal of Industrial and Engineering Chemistry**, 101 (2021) 195

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S. Ansari, **S. Masoum**, A hybrid imprinted polymer based on magnetic graphene oxide and carbon dots for ultrasonic assisted dispersive solid-phase microextraction of oxycodone, **Microchemical Journal**, 164 (2021) 105988

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A. Allahyari, **S. Masoum**, M. Akhbari, S. Hamed, A. Mazoochi Experimental design approach in optimization of some effective variables on quantity and quality extraction of essential oil from *Rosa damascena* Mill, **Journal of the Iranian Chemical Society**, 18 (2021) 2437

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M. Ghani, J.B. Raoof, **S. Masoum**, In-situ formation of Zn–Al layered double oxides on electrochemically anodized nanoporous aluminum film as sorbent for chlorophenols extraction from water and wastewater, **Journal of Separation Science**, 44 (2021) 1264

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S. Seifi, **S. Masoum**, Significantly enhanced electrochemical hydrogen storage performance of biomass nanocomposites from *Pistacia Atlantica* modified by CuO nanostructures with different morphologies, **International Journal of Hydrogen Energy**, 46 (2021) 8078

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S. Ansari, **S. Masoum**, Recent advances and future trends on molecularly imprinted polymer-based fluorescence sensors with luminescent carbon dots, **Talanta**, 223 (2021) 121411

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S. Seifi, **S. Masoum**, Synthesis of Co₉S₈@ N, S co-doped porous carbon core-shell nanocomposite with highly coulombic efficiency in electrochemical hydrogen storage application, **Journal of the Electrochemical Society**, 167 (2020) 110539

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S. M. Memarzadeh, A. Gholami, A. Ghasemi Pirbalouti, **S. Masoum**, Bakhtiari savory (*Satureja bachtiarica* Bunge.) essential oil and its chemical profile, antioxidant activities, and leaf micromorphology under green and conventional extraction techniques, **Industrial Crops and Products**, 154 (2020) 112719

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H. Seifi, **S. Masoum**, Ultrasonically assisted removal of toxic dye using Iranian bituminous coal based-activated carbon: synthesis, characterization, modeling, equilibrium and kinetic studies, **Journal of the Iranian Chemical Society**, 17 (2020) 2969

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M. Mehran, **S. Masoum**, M. Memarzade, Microencapsulation of *Mentha spicata* essential oil by spray drying: Optimization, characterization, release kinetics of essential oil from microcapsules in food models, **Industrial Crops and Products**, 154 (2020) 112694

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S. Ansari, **S. Masoum**, Ultrasound-assisted dispersive solid-phase microextraction of capecitabine by multi-stimuli responsive molecularly imprinted polymer modified with chitosan nanoparticles followed by HPLC analysis, **Microchimica Acta**, 187 (2020) 366

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F. Saeidinejad, S. M. Ghoreishi, **S. Masoum**, M. Behpour, Application of chemometric methods for the voltammetric determination of tryptophan in the presence of unexpected interference in serum samples, **Measurement**, 159 (2020) 107745

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M. Mehran, **S. Masoum**, M. Memarzade, Improvement of thermal stability and antioxidant activity of anthocyanins of *Echium amoenum* petal using maltodextrin/modified starch combination as wall material, **International Journal of Biological Macromolecules**, 148 (2020) 768–776

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S. Arab, **S. Masoum**, E.S. Hosseini, Engineering the synthesis of luminescent carbon dots with ultra high-quantum yield using experimental design approach in order to develop sensing applications, **IEEE Sensors Journal**, 20 (2020) 1705-1711

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S. Hajialigol, **S. Masoum**, Optimization of biosorption potential of nano biomass derived from walnut shell for the removal of Malachite Green from liquids solution: Experimental design approaches, **Journal of Molecular Liquids**, 286 (2019) 110904

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S. Ansari, **S. Masoum**, Molecularly imprinted polymers for capturing and sensing proteins: Current progress and future implications, **Trends in Analytical Chemistry**, 114 (2019) 29-47

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S. Seifi, **S. Masoum**, Preparation of copper oxide/oak-based biomass nanocomposite for electrochemical hydrogen storage, **International Journal of Hydrogen Energy**, 44 (2019) 11979 -11988

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S. Hajialigol, **S. Masoum**, Promising electrochemical hydrogen storage properties of nano biomass derived from walnut shell, **International Journal of Hydrogen Energy**, 44 (2019) 10713-10721

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A. Bayat, **S. Masoum**, E. Seyed Hosseini, Natural plant precursor for the facile and eco-friendly synthesis of carbon nanodots with multifunctional aspects, **Journal of Molecular Liquids**, 281 (2019) 134 –140

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M. Ghani, S. M. Ghoreishi, **S. Masoum**, Highly porous nanostructured copper oxide foam fiber as a sorbent for head space solid-phase microextraction of BTEX from aqueous solutions, **Microchemical Journal**, 145 (2019) 210–217.

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H. A. Rafiee-Pour, M. Nejadhosseini, M. Firouzi, **S. Masoum**, Catalase immobilization onto magnetic multi-walled carbon nanotubes: optimization of crucial parameters using response surface methodology, **New Journal of Chemistry**, 43 (2019) 593-600.

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A. H. Alinoori, **S. Masoum**, Multicapillary gas chromatography - temperature modulated metal oxide semiconductor sensors array detector for monitoring of volatile organic compounds in closed atmosphere using Gaussian apodization factor analysis, **Analytical Chemistry**, 90 (2018) 6635–6642

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M. Mosleh, S. M. Ghoreishi, **S. Masoum**, A. Khoobi, Determination of quercetin in the presence of tannic acid in soft drinks based on carbon nanotubes modified electrode using chemometric approaches, **Sensors & Actuators: B. Chemical**, 272 (2018) 605–611

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A. Ghorbani, S. Ansari, **S. Masoum**, Ultrasonic-assisted solid-phase extraction of sotalol in human urine samples using molecularly imprinted nanoparticles: Experimental design and adsorption study, **Journal Separation Science and Technology**, (2018), DOI: 10.1080/01496395.2018.1473879

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H. Ghasemi, **S. Masoum**, Development and optimization of surfactants and UV filters formulation in sunscreens based on organic and nanocomposite molecules using experimental design and nanodispersion techniques, **Journal of Molecular Liquids**, 266 (2018) 762–769

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A. H. Alinoori, **S. Masoum**, Gaussian apodization factor analysis for resolution of the embedded peaks in real complicated chromatographic datasets, **Microchemical Journal**, 141 (2018) 473–481

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S. Masoum, N. Samadi, B. Mehrara, M. Mahboubi, Potentiality of independent component regression in assessment of the peaks responsible for antimicrobial activity of *Satureja hortensis* L. and *Oliveria decumbens* Vent. using GC–MS, **Journal of the Iranian Chemical Society**, 15 (2018) 2007–2016

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S. Ansari, **S. Masoum**, Multi-walled carbon nanotube-based magnetic molecularly imprinted polymer as a highly selective sorbent for ultrasonic-assisted dispersive solid-phase microextraction of sotalol in biological fluids, **Analyst**, 143 (2018) 2862–2875

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H. Akhoundzadeh, A. Gholami, **S. Masoum**, R. S. Moazeni-Pourasil, Headspace solid-phase microextraction GC–MS for rapid rice aroma analysis using optimization tools, **Chromatographia**, 81 (2018) 931–945

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M. Akhbari, **S. Masoum**, F. Aghababaei, S. Hamed, Optimization of microwave assisted extraction of essential oils from Iranian *Rosmarinus officinalis* L. using RSM, **Journal of Food Science and Technology**, 55 (2018) 2197–2207

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H. Seifi, **S. Masoum**, Electrochemical hydrogen storage performance of carbon nanosheets synthesized from bituminous coal, **International Journal of Hydrogen Energy**, 42 (2017) 30145–30155

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M. Afzalkhah, **S. Masoum**, M. Behpour, H. Naeimi, A. Reisi-Vanani, Experimental and Theoretical Investigation of Inhibition Efficiency of 2-(2-Hydroxyphenyl)-benzothiazole Using Impedance Spectroscopy, Experimental Design, and Quantum Chemical Calculations, **Industrial & Engineering Chemistry Research**, 56 (2017) 9035–9044

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A. Benvidi, S. Abbasi, S. Gharaghani, M. Dehghan Tezerjani, **S. Masoum**, Spectrophotometric determination of synthetic colorants using PSO–GA–ANN, **Food Chemistry**, 220 (2017) 377–384

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A. Mohsenikia, A. Gholami, **S. Masoum**, S. Abbasi, Three-way spectrofluorimetric-assisted multivariate determination of nonylphenol ethoxylate and 2-naphthalene sulfonate in wastewater samples and optimization approach for their photocatalytic degradation by CoTiO₃ nanostructure, **Environmental technology**, 38 (2017) 2263-2272

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N. Ravankhah, R. Mirzaei, **S. Masoum**, Determination of heavy metals in surface soils around the brick kilns in an arid region, Iran, **Journal of Geochemical Exploration**, In Press, doi:10.1016/j.gexplo.2016.01.005

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A. A. Rezaei, A. Reisi-Vanani, **S. Masoum**, An Application of Geometrical Isometries in non-planar molecules, **Iranian Journal of Mathematical Chemistry**, (2017), In Press

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S. M. Ghoreishi, M. Behpour, A. Khoobi, **S. Masoum**, Application of experimental design for quantification and voltammetric studies of sulfapyridine based on a nanostructure electrochemical sensor, **Arabian Journal of Chemistry**, 10 (2017), S3156–S3166

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S. Masoum, A. Gholami, S. Ghaheri, D. Jouan-Rimbaud Bouveresse, C. B. Y. Cordella, D. N. Rutledge, Investigation of fragrance stability used in the formulation of cosmetic and hygienic products using headspace solid phase microextraction technique by nano structural materials followed by gas chromatography-mass spectroscopy, **Journal of Separation Science**, 39 (2016) 2760–2769

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S. Ghaheri, **S. Masoum**, A. Gholami, Resolving of challenging gas chromatography-mass spectrometry peak clusters in fragrance samples using multicomponent factorization approaches based on polygon inflation algorithm, **Journal of Chromatography A**, 1429 (2016) 328-317

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E. H. Ebrahimabadi, S. M. Ghoreishi, **S. Masoum**, A. H. Ebrahimabadi, Combination of GC/FID/Mass spectrometry fingerprints and multivariate calibration techniques for recognition of antimicrobial constituents of Myrtus communis L. essential oil, **Journal of Chromatography B**, 1008 (2016) 50-57

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A. Gholami, **S. Masoum**, A. Mohsenikia, S. Abbasi, Chemometrics-assisted excitation-emission fluorescence analytical data for rapid and selective determination of optical brighteners in the presence of uncalibrated interferences, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 153 (2016) 108-117

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N. Ravankhah, R. Mirzaei, **S. Masoum**, Spatial Eco-Risk Assessment of Heavy Metals in the Surface Soils of Industrial City of Aran-o-Bidgol, Iran, **Bull Environ Contam Toxicol**, 96 (2016) 516-523.

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M. Behpour, **S. Masoum**, M. Meshki, Application of electrochemical techniques at a nanostructure-based modified sensor for analyte quantitation, **Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry**, (2015) In press, DOI:10.1080/15533174.2014.989621

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N. Samadi, **S. Masoum**, B. Mehrara, H. Hosseini, Application of linear multivariate calibration techniques to identify the peaks responsible for the antioxidant activity of *Satureja hortensis* L. and *Oliveria decumbens* Vent. essential oils by gas chromatography-mass spectrometry, **Journal of Chromatography B**, 1001 (2015) 75-81

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S. Masoum, S. Heshamt, Photoluminescence quantitative analysis of gallic acid and caffeine in green tea using multi-way chemometric approaches, **Iranian Journal of Mathematical Chemistry**, 6 (2015) 109-119

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S.M. Ghoreishi, F. Saeidinejad, M. Behpour, **S. Masoum**, Application of multivariate optimization to electrochemical determination of methyl dopa drug in the presence of diclofenac at a nanostructured electrochemical sensor, **Sensors and Actuators B: Chemical**, 221 (2015) 576-585

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S Masoum, A Gholami, M Hemmesi, S Abbasi, Quality assessment of the saffron samples using second-order spectrophotometric data assisted by three-way chemometric methods via quantitative analysis of synthetic colorants in adulterated saffron, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 148 (2015) 389-395

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S Masoum, M Mehran, S Ghaheri, Identification of potential antioxidant compounds in the essential oil of thyme by gas chromatography with mass spectrometry and multivariate calibration techniques, **Journal of Separation Science**, 38 (2015) 410-417

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M Behpour, **S Masoum** , A Lalifar, A Khoobi, A novel method based on electrochemical approaches and multivariate calibrations for study and determination of methylparaben in the presence of unexpected interference in cosmetics, **Sensors and Actuators B: Chemical**, 214 (2015) 10-19

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M Meshki, M Behpour, **S Masoum**, Application of Fe doped ZnO nanorods-based modified sensor for determination of sulfamethoxazole and sulfamethizole using chemometric methods in voltammetric studies, **Journal of Electroanalytical Chemistry**, 740 (2015) 1-7

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M. Behpour, **S Masoum**, M Meshki, Application of multivariate curve resolution alternating least squares method for determination of caffeic acid in the presence of catechin interference, **Analytical Biochemistry**, 473 (2015) 80-88

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H Naeimi, V Nejadshafiee, **S Masoum**, Copper@PMO nanocomposites as a novel reusable heterogeneous catalyst for microwave-assisted green synthesis of β -hydroxy-1,2,3-triazoles through experimental design protocol, **Applied Organometallic Chemistry**, 29 (2015) 314-321

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H Naeimi, V Nejadshafiee, **S Masoum**, Highly efficient copper-imprinted functionalized mesoporous organosilica nanocomposites as a new recyclable catalyst for click synthesis of 1, 2, 3-triazole derivatives under ultrasound irradiation: Multivariate study by factorial design of experiments, **RSC Advances**, 5 (2015) 15006-15016

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A. Khoobi, S.M. Ghoreishi, M. Behpour, **S. Masoum**, Three-Dimensional Voltammetry: A Chemometrical Analysis of Electrochemical Data for Determination of Dopamine in the Presence of Unexpected Interference by a Biosensor Based on Gold Nanoparticles, **Analytical Chemistry**, 86 (2014) 8967–8973

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H. Seifi, **S. Masoum**, S. Seifi, Performance assessment of chemometric resolution methods utilized for extraction of pure components from overlapped signals in gas chromatography-mass spectrometry, **Journal of Chromatography A**, 1365 (2014) 173-182

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S. Masoum, S. Abbasi, Model-based three-way chemometric methods for quantitative analysis of linear alkylbenzene sulfonate and optical brightener in real samples using excitation–emission fluorescence data, **Analytical Methods**, 6 (2014) 8544-8553

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M. Behpour, **S. Masoum**, M. Meshki, Determination of trace amounts of thymol and caffeic acid in real samples using a graphene oxide nanosheet modified electrode: application of experimental design in voltammetric studies, **RSC Advances**, 4 (2014) 14270-14280

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S. M. Ghoreishi, A. Khoobi, M. Behpour, **S. Masoum**, Application of multivariate curve resolution alternating least squares to biomedical analysis using electrochemical techniques at a nanostructure-based modified sensor, **Electrochimica Acta**, 130 (2014) 271-278

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H. Seifi, **S. Masoum**, S. Seifi, E. H. Ebrahimabadi, Chemometric Resolution Approaches in Characterization of Volatile Constituents in Plantago Ovata Seeds using Gas Chromatography-Mass Spectrometry: Methodology and Performance Assessment, **Phytochemical Analysis**, 25 (2014) 273-281

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A. Khoobi, S. M. Ghoreishi, **S. Masoum**, M. Behpour, Multivariate curve resolution-alternating least squares assisted by voltammetry for simultaneous determination of betaxolol and atenolol using carbon nanotube paste electrode , **Bioelectrochemistry**, 94 (2013) 100-107

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S. Masoum, S. Ghaheri, Feature selection and classification of microarray gene expression data of ovarian carcinoma patients using weighted voting support vector machine, **Iranian Journal of Mathematical Chemistry**, 4 (2013) 163-175

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M. Behpour, **S. Masoum**, M. Meshki, Study and Electrochemical Determination of Tyrosine at Graphene Nanosheets Composite Film Modified Glassy Carbon Electrode, **Journal of Nanostructure**, 3 (2013) 243-251

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S. Masoum, A. Alishahi, M. Shekarchi, H. Farahmand, N. Prieto, G. Rafiee, Determination of Protein and Moisture in Fishmeal by Near-Infrared Reflectance Spectroscopy and Multivariate Regression Based on Partial Least Squares, **Iranian Journal of Chemistry & Chemical Engineering**, 31 (2012) 51-59

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M. Mazloun-Ardakani, A. A. Mandegari, **S. Masoum**, H. Naeimi, Multiwall carbon nanotubes modified carbon paste electrode for determination of copper (II) by potentiometric and impedimetric methods, **Journal of Nanostructure**, 2 (2012) 333-343

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A. Safavi, N. Maleki, A. Rostamzadeh, **S. Maesum**, CCD camera full range pH sensor array, **Talanta**, 71 (2007) 498-501

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S. Masoum, D. Jouan-Rimbaud Bouveresse, J. Vercauteren, M. Jalali-Heravi, D. N. Rutledge, Discrimination of wines based on 2D NMR spectra using learning vector quantization neural networks and partial least squares discriminant analysis, **Analytica Chimica Acta**, 558 (2006) 144-149

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Z. Talebpour, **S. Maesum**, M. Jalali-Heravi, M. Shamsipour, Simultaneous Determination of Theophylline and Caffeine by Proton Magnetic Resonance Using Partial Least Squares Regression Technique, **Analytical Sciences**, 19 (2003) 1079-1082

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G. Absalan, A. Safavi, **S. Maesum**, Application of artificial neural networks as a technique for interference removal: kinetic–spectrophotometric determination of trace amounts of Se(IV) in the presence of Te(IV) , **Talanta**, 55 (2001) 1227–1233

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A. Safavi, G. Absalan, **S. Maesum**, Simultaneous determination of V(IV) and Fe(II) as catalyst using “neural networks” through a single catalytic kinetic run, **Analytica Chimica Acta**, 432 (2001) 229–233