

CURRICULUM VITAE



Saeed Yousefinejad

Ph.D. in Analytical Chemistry: Shiraz University, Shiraz, Iran, 2012

Professor Assistant

Laboratory for Chemical Hazards and Toxicology (LCHT); Department of Occupational Health, School of Health, Shiraz University of Medical Sciences, Shiraz, Iran

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Education and Research Experience

<u>Degree/ field</u>	<u>Time and Place</u>	<u>Project / Thesis Title</u>
Postdoctoral fellowship <i>Bioanalytical chemistry</i>	<i>Dec 2014- Jan 2016</i> Department of Chemistry, Shiraz University, Shiraz, Iran	Spectroelectrochemistry to Study the Impacts of the Environmental Pollutants and Pathogens on the Human Respiratory proteins
Postdoctoral fellowship <i>Protein Chemistry</i>	<i>Nov 2012-Oct 2014</i> Institute of Biochemistry and Biophysics (IBB), University of Tehran, Tehran, Iran	Protein Chemometrics: Application in the protein unfolding, ligand-protein interactions and prediction of peptides' activities
PhD <i>Analytical Chemistry</i>	<i>Sep 2007-May 2012</i> Department of Chemistry, Shiraz University, Shiraz	Application of Chemometrics and Chemoinformatics Methods to Study the Impact of Metal Nanoparticle on Chemical and Biological Processes and to Develop New Structure-Function Relationships of Proteins and Drugs
M.Sc. <i>Analytical Chemistry</i>	<i>2005-2007</i> Department of Chemistry, Shiraz University, Shiraz	Multivariate Standard Addition Methods Solved by Net Analyte Signal Calculation and Rank Annihilation Factor Analysis

Professional Membership

- Member of Center of Top Talent Students (Shiraz University) (2011-now)
- National Elites Foundation (Islamic Republic of Iran) 2011-now
- Member of Iranian Chemical Society 2007-now
- Member of Iran Society of Biophysical Chemistry 2013-now
- Member of Iran Peptide Society 2013-now

Awards and Grants

- Distinguished Researcher of University, Shiraz University of Medical Sciences, Shiraz, Iran (2017)
- Research grant awarded for publications in Top-SNIP journals from Shiraz University of Medical Sciences (2017, 2018, 2019)
- Distinguished Young Researcher (under 35 years old) in “Protein and Peptide Science”, *Iran Society of Biophysical Chemistry* (2014)
- Postdoctoral Grant (From Iran National Science foundation), (2014)
- Postdoctoral scholarship (from National Elites Foundation, Iran) in the research group of Prof. Moosavi-Movahedi, University of Tehran, Tehran, Iran (2012)
- Research Grant for Distinguished Young Assistant Professors in Medical Universities, Iran (2018)

Research Skills

- Chromatography (HPLC, GC and Ion Chromatography)
- Circular Dichroism (CD)
- Molecular Fluorescence Spectroscopy
- UV-Vis spectroscopy
- Differential Scanning Calorimetry (DSC)
- Chemometrics (Two way and Multi-way Calibration, Experimental Design, Classification) and Chemoinformatics,
- Dynamic Light Scattering (DLS)
- Structure-Function Relationship Modeling of Small Molecules
- Structure-Function Relationship Modeling of Peptides

Research Interests

- ❖ Analysis of Occupational Chemical Hazards
- ❖ Biological Monitoring

- ❖ Method Development in Extraction and Analysis of Volatile Compounds
- ❖ Bioanalytical Chemistry
- ❖ Environmental Chemistry and Analysis
- ❖ Environmental Chemical Biology
- ❖ Protein Chemistry & Protein Chemometrics
- ❖ NanoChemistry and its Application in Chemical Analysis
- ❖ Interactions of Occupational/Environmental pollutants with Biomolecules
- ❖ Industrial Analysis (Food, Agriculture and Petroleum)
- ❖ Molecular modeling and Suture-Property Relationships

** Highly interested in group-working and interdisciplinary research projects

Computing Skills

- ❖ Windows systems, and various software applications (Word, Excel, PowerPoint)
- ❖ Some computational and statistical software (Hyperchem, Dragon, SPSS, Gaussian 98, DesignExpert, etc.)
- ❖ Familiar with MATLAB software and MATLAB programming
- ❖ Familiar with Chemometrics toolbox (PLS toolbox, Multi-way toolbox, Genetic Algorithm, MCR-ALS toolbox, Neural Network)

Workshops

- ✓ 5th Iranian Chemometrics Workshop (Rank Annihilation Factor Analysis), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 14-16 March 2006.
- ✓ 6th Iranian Chemometrics Workshop (Model based analysis; **Prof. Marcel Maeder** from Australia), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 6-8 February 2007
- ✓ 7th Iranian Chemometrics Workshop (Model free analysis; **Prof. Roma Tauler** from Spain), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 26-28 August 2008.
- ✓ 1st workshop of QSAR and modelling, (**Roberto Todeschini** from Italy) Medicinal & Natural Products Chemistry Research Center, Shiraz University of Medical Science, 14 February 2009.
- ✓ 9th Iranian Chemometrics Workshop (Multi-way analysis; **Prof. Rasmus Bro & Prof. Frans Van Den Berg** from Denmark), Institute of Advanced studies in basic Sciences, Zanjan, Iran, 1-3 November 2010.
- ✓ Chemoinformatics Workshop 2018, **Prof. Knut Baumann** (from Germany), **Prof. Igor Tetko** (from Germany) , **Prof. Roberto Todeschini** (from Italy), Medicinal and Natural Products Chemistry Research Center, Shiraz University of Medical Sciences, Shiraz, Iran, 21-23 April 2018.

PUBLICATIONS

- 1) Hemmateenejad B., **Yousefinejad S.**, Mehdipour A.R., Novel amino acids indices based on quantum topological molecular similarity and their application to QSAR study of peptides, *Amino Acids* 40(2011), 1169-1183.
- 2) Nekoeinia M., Hemmateenejad B., Absalan G., **Yousefinejad S.**, MCR-NAS: A combined hard-soft multivariate curve resolution method based on net analyte signal concept for modeling kinetic data with inert interference and baseline drift, *Chemom. Intell. Lab. Syst.* 98 (2009) 78–87.
- 3) Hemmateenejad B., **Yousefinejad S.**, Multivariate standard addition method solved by net analyte signal calculation and rank annihilation factor analysis, *Anal. Bioanal. Chem.* 394 (2009)1965–1975.
- 4) **Yousefinejad S.**, Hemmateenejad B., Simultaneous spectrophotometric determination of paracetamol and para-aminophenol in pharmaceutical dosage forms using two novel multivariate standard addition methods based on net analyte signal and rank annihilation factor analysis, *Drug testing and analysis*, 4 (2012) 507–514.
- 5) **Yousefinejad S.**, Hemmateenejad B., Mehdipour AR., New autocorrelation QTMS-based descriptors for use in QSAM of peptides, *Journal of the Iranian Chemical Society*, 9 (2012) 569-577.
- 6) Hemmateenejad B., **Yousefinejad S.**, Interaction study of human serum albumin and ZnS nanoparticles using fluorescence spectrometry, *Journal of Molecular Structure*, 1037 (2013) 317–322.
- 7) **Yousefinejad S.**, Hemmateenejad B., A chemometrics approach to predict the dispersibility of graphene in various liquid phases using theoretical descriptors and solvent empirical parameters, *Colloids and Surfaces A: Physicochem. Eng. Aspects*, 441 (2014) 766– 775.
- 8) **Yousefinejad S. ***, Honarasa F., Abbasitabar F., Zeinab Arianezhad, New LSER model based on solvent empirical parameters for the prediction and description of the solubility of buckminsterfullerene in various solvents, *Journal of Solution Chemistry*, 42 (2013) 1620–1632.
- 9) Farivar F., Moosavi-Movahedi A. A., **Yousefinejad S.**, Salami M., Saboury A.A., Niasari-Naslaji A., Deconvolution and Binding Study of Camel and Human Serum Albumins upon Interaction with Sodium Dodecyl Sulphate, *Journal of the Iranian Chemical Society*, 11 (2014) 1449-1457 .
- 10) Salehi N., Moosavi-Movahedi A.A, Fotouhi L., **Yousefinejad S.**, Shorian M., Hosseinzadeh R., Sheibani N., Habibi-Rezaei M., Heme degradation upon endogenous hydrogen peroxide production via interaction of hemoglobin with sodium dodecyl sulfate, *Journal of Photochemistry and Photobiology B: Biology*, 133 (2014) 11-17.
- 11) Montaseri H., Khajehsharifi H., **Yousefinejad S.**, UV determination of Epinephrine, Uric Acid and Acetaminophen in pharmaceutical formulation and some of human body fluids using multivariate calibration, *Química Nova*, 37 (2014) 1404-1409.
- 12) Montaseri H., **Yousefinejad S.**, Design of an optical sensor for the determination of Cysteine based on spectrophotometric method in triacetylcellulose film; PC-ANN application, *Analytical Methods*, 6 (2014) 8482-8487.
- 13) **Yousefinejad S. ***, Bagheri M., Moosavi-Movahedi, A.A., Quantitative Sequence-Activity Modeling of Linear Hexapeptide Antibiotics: An Approach for the Prediction and Description of Antifungal Activity, *Amino Acids*, 47 (2015) 125-134.

- 14) Fotouhi L., **Yousefinejad S.**, Salehi N., Saboury A.A., Sheibani N., and Moosavi-Movahedi A.A., Chemical denaturation Study and Intermediate Speciation of Hemoglobin Using Chemometrics Analysis of Merged Spectroscopic Data, *Spec. Chim. Acta A*, 136 (2015) 1974–1981.
- 15) **Yousefinejad S.***, Honarasa F., Saeed N., Quantitative structure–retardation factor relationship of protein amino acids in different solvent mixtures for normal phase thin layer chromatography, *Journal of Separation Science*, 38 (2015) 1771–1776.
- 16) **Yousefinejad S.**, Honarasa F., Montaseri H, Linear solvent structure-polymer solubility and solvation energy relationships to study conductive polymer/carbon nanotube composite solutions, *RSC Advances*, 5 (2015) 42266-42275
- 17) **Yousefinejad S.**, Hemmateenejad B., Chemometrics tools in QSAR/QSPR studies: A historical perspective, *Chemometrics and Intelligent Laboratory Systems*, 149 (2015) 177-204.
- 18) Honarasa F., **Yousefinejad S.***, Nasr S., Nekoeinia M., Structure-Electrochemistry Relationship in Non-aqueous Solutions: Predicting the Reduction Potential of Anthraquinones Derivatives in Some Organic Solvents, *Journal of Molecular Liquids*, 212 (2015) 52–57.
- 19) **Yousefinejad S.***, Honarasa F., Solhjoo A., On the Solubility of Ferrocene in Non-aqueous Solvents, *Journal of Chemical and Engineering Data*, 61 (2016), 614–621.
- 20) Nekoeinia M., **Yousefinejad S.***, Abdollahi-Dezaki A., Prediction of E^T_N Polarity Scale of Ionic Liquids Using a QSPR Approach, *Industrial & Engineering Chemistry Research*, 54 (2015) 12682–12689.
- 21) Rahimi M.; Moosavi-Movahedi A.A, Ghaffari S. M.; Salami M.; Mousavy S. J.; Niasari-Naslaji A.; **Yousefinejad S.**; Jahanbai R., Investigation of ACE-inhibitory and radical scavenging activities of bioactive peptides produced from enzymatic hydrolysis of camel milk casein, *Dairy Science & Technology*, 96 (2016) 489–499.
- 22) **Yousefinejad S.***, Aalizadeh L., Honarasa F, Application of ATR-FTIR Spectroscopy and Chemometrics to Discriminate Three Types of Fuel Oil, *Analytical Methods*, 8 (2016) 4640-4647 .
- 23) Honarasa F., Zare M., **Yousefinejad S.***, Comparison of different carbon nanostructures on potentiometric performance of carbon paste electrode, *Russian Journal of Electrochemistry*, 52 (2016) 1073-1078.
- 24) Fotouhi L., Moosavi-Movahedi A.A., **Yousefinejad S.**, Shourian M., Sheibani N., Habibi-Rezaei M., Saboury A. A., Hydrophobic behavior, ROS production and heme degradation of hemoglobin upon interaction with n-alkyl sulfates, *Journal of the Iranian Chemical Society* 13 (2016) 2103–2111.
- 25) Nekoeinia M., M. Kabiri Dehkordi, M. Kolahdoozan, **Yousefinejad S.**, Preparation of epoxidized soybean oil-grafted $Fe_3O_4-SiO_2$ as a water-dispersible hydrophobic nanocomposite for solid-phase extraction of ultra trace amounts of rhodamine B, *Microchemical Journal* 129 (2016) 236–242 .
- 26) Mahboubifar M., **Yousefinejad S.**, Alizade, M, Hemmateenajad B., Prediction of the acid value, peroxide value and the percentage of some fatty acids in edible oils during long heating time by chemometrics analysis of FTIR-ATR spectra, *Journal of the Iranian Chemical Society* 13 (2016) 2291–2299.

- 27) Soleymani H., Saboury A.A., Moosavi-Movahedi A.A., Rahmani F., Maleki J., **Yousefinejad S.**, Maghami P., Vitamin E induces regular structure and stability of human insulin, more intense than vitamin D3, *International Journal of Biological Macromolecules*, 93 (2016) 868–878.
- 28) **Yousefinejad S. ***, Honarasa F., Chaabi M., New relationship models for solvent-pyrene solubility based on molecular structure and empirical properties, *New Journal of Chemistry*, 40 (2016), 10197-10207.
- 29) Mahboubifar M., Hemmateenajad B., **Yousefinejad S.**, Classification of edible oils based on ATR-FTIR spectral information during a long heating treatment, *Journal of AOAC International* 100 (2016) 351-358, DOI: <https://doi.org/10.5740/jaoacint.16-0412>
- 30) **Yousefinejad S. ***, Honarasa F., Nekoeinia M., Zangeneh F., Investigation and Modeling Anthracene Solubility in Organic Phase, *Journal of Solution Chemistry* 46 (2016) 352–373, DOI:10.1007/s10953-017-0568-0
- 31) Mahboubifar M., Hemmateenajad B., Javidnia K., **Yousefinejad S.**, Evaluation of long-heating kinetic process of edible oils using ATR-FTIR and chemometrics tools, *Journal of Food Science and Technology* 54 (2017) 659–668, DOI: 10.1007/s13197-017-2502-2
- 32) **Yousefinejad S. ***, Honarasa F., Mosahebfard M., Nekoeinia M., Investigation of the Effective Parameters on the Gas-Solvent Partition Coefficient of Trans-Stilbene using Solvent-Solubility Approaches, *Journal of Molecular Liquids*, 231 (2017) 263–271, DOI: 10.1016/j.molliq.2017.01.089
- 33) **Yousefinejad S.**, Rasti H., Hajebi, M., Sadravi, S., Kowsari M., Honarasa F., Design of C-dots/Fe₃O₄ magnetic nanocomposite as an efficient new nanozyme and its application for determination of H₂O₂ in nanomolar level, *Sensors and Actuators B: Chemical* 247 (2017) 691–696, DOI: 10.1016/j.snb.2017.02.145
- 34) Khammari A., Saboury A A., Karimi-Jafari M H., Khoobi M., Ghasemi A., **Yousefinejad S.**, Abou-Zied O. K., Insights into molecular interaction between some polyoxygenated cinnamoylcoumarin derivatives and human serum albumin, *Physical Chemistry Chemical Physics*, 19 (2017) 10099-10115, DOI: 10.1039/C7CP00681K
- 35) **Yousefinejad S.**, Eftekhari R., Honarasa F., Zamanian Z., Sedaghati F., Comparison between the gas-liquid solubility of methanol and ethanol in different organic phases using structural properties of solvents, *Journal of Molecular Liquids* 241 (2017), 861-869 <https://doi.org/10.1016/j.molliq.2017.06.081>
- 36) Nekoeinia M., **Yousefinejad S.**, Abdi M. R., Ebrahimpour B., Highly selective spectrophotometric determination of ultra trace nickel after preconcentration of its dimethylglyoximate complex on polydopamine coated Fe₃O₄ nanoparticles, *Iranian Journal of Analytical Chemistry*, 4 (2017), 1-9
- 37) Samari F., **Yousefinejad S. ***, Quantitative Structural Modeling on the Wavelength Interval ($\Delta\lambda$) in Synchronous Fluorescence Spectroscopy, *Journal of Molecular Structure*, 1148 (2017) 101–110. DOI:10.1016/j.molstruc.2017.07.033
- 38) Ramezani A. M., **Yousefinejad S.**, Nazifi M., Absalan G., Response surface approach for isocratic separation of some natural anthraquinone dyes in micellar liquid chromatography, *Journal of Molecular Liquids*, 242 (2017) 1058-1065, DOI: 10.1016/j.molliq.2017.07.090

- 39) **Yousefinejad S. ***, Bahram M., Baheri M., Classification of Methamphetamine Sized in Different Region of Iran using GC-MS and Chemometrics, *Journal of the Iranian Chemical Society*, 15 (2018) 163-170, DOI: 10.1007/s13738-017-1219-5
- 40) Derakhshan Z., Mahvi A.H., Ehrampoush M.H., Mazloomi S. M., Faramarzian M., Dehghani M., **Yousefinejad S.**, Ghaneian M. T., Abtahi S. M., Studies on influence of process parameters on simultaneous biodegradation of atrazine and nutrients in aquatic environments by a membrane photobioreactor, *Environmental Research* 161 (2018): 599-608. DOI: 10.1016/j.envres.2017.11.045
- 41) Derakhshan Z., Mahvi A. H., Ghaneian M. T., Mazloomi S. M., Faramarzian M., Dehghani M., Fallahzadeh H., **Yousefinejad S.**, Berizi E., Ehrampoush M. H., Bahrami S., Simultaneous removal of atrazine and organic matter from wastewater using anaerobic moving bed biofilm reactor: A performance analysis, *Journal of Environmental Management*, 209 (2018) 515–524. DOI: 10.1016/j.jenvman.2017.12.081
- 42) Derakhshan Z., Mahvi A.H., Ehrampoush M.H., Ghaneian M.T., **Yousefinejad S.**, Faramarzian M., Mazloomi, S.M., Dehghani M., Fallahzadeh H., Evaluation of kenaf fibers as moving bed biofilm carriers in algal membrane photobioreactor. *Ecotoxicology and environmental safety*, 152 (2018) 1-7.
- 43) Derakhshan Z., Ehrampoush M.H., Mahvi A.H., Ghaneian M.T., Mazloomi S.M., Faramarzian M., Dehghani M., Fallahzadeh H., **Yousefinejad S.**, Berizi E., Bahrami S., Biodegradation of atrazine from wastewater using moving bed biofilm reactor under nitrate-reducing conditions: A kinetic study. *Journal of environmental management*. 212(2018) 506-513.
- 44) Nekoeinia M., Salehriahi F., Moradlou O., Kazemi H., **Yousefinejad S.**, Enhanced Fenton-like catalytic performance of N-doped graphene quantum dots incorporated CuCo_2O_4 , *New Journal of Chemistry*, **In Press** (2018), DOI: 10.1039/C8NJ00219C
- 45) Jarrahpour A., Aye M., Ameri Rad J., **Yousefinejad S.**, Sinou V., Latour C., Brunel Jean M., Design, synthesis and activity evaluation of novel antimalarial 1,2,3-triazolo β -lactams derivatives, *Journal of the Iranian Chemical Society*, **In Press** (2018) DOI: <https://doi.org/10.1007/s13738-018-1330-2>
- 46) Moazzen M., Mousavi Khaneghah A., Shariatifar N., Ahmadloo M., Eş I., Norouzian Baghani A., **Yousefinejad S.**, Alimohammadi M., Azari A., Dobaradaran S., Rastkari N., Nazmara S., Delikhoon M., Jahed Khaniki G.R., Multi-walled carbon nanotubes modified with iron oxide and silver nanoparticles (MWCNT-Fe 3O_4 /Ag) as a novel adsorbent for determining PAEs in carbonated soft drinks using magnetic SPE-GC/MS method, *Arabian Journal of Chemistry*, **In Press** (2018) <https://doi.org/10.1016/j.arabjc.2018.03.003>
- 47) Heidari S., Hemmateenajad B., **Yousefinejad S. ***, Moosavi-Movahedi A.A., Excitation- emission matrix fluorescence spectroscopy combined with three-way chemometrics analysis to follow denatured states of secondary structure of bovine serum albumin, *Journal of Luminescence*, 203 (2018) 90-99.
- 48) **Yousefinejad S. ***, Honarasa F., Fararouei M., Moosavi-Movahedi A.A, Quantitative Structure-electrochemistry relationship for monovalent alkaline metals in non-aqueous solutions, *Physics and Chemistry of Liquids*, **Accepted** (2018), <https://doi.org/10.1080/00319104.2018.1507031>

- 49) Samari F., Salehipoor H., Eftekhar E., **Yousefinejad S.**, Low-temperature biosynthesis of silver nanoparticles using mango leaf extract: Catalytic effect, antioxidant properties, anticancer activity and application for colorimetric sensing, *New Journal of Chemistry*, 42 (2018) 15905-15916, DOI: <https://doi.org/10.1039/C8NJ03156H>
- 50) Neghab M., Mirzaei A., Kargar Shouroki F., Jahangiri M., Zare M., **Yousefinejad S.**, Ventilatory disorders associated with occupational inhalation exposure to nitrogen trihydride (ammonia), *Industrial Health*, 56 (2018) 427-435. <https://doi.org/10.2486/indhealth.2018-0014>
- 51) Zamanian Z., **Yousefinejad S.**, Khoshnoud M.J., Golbabaie F., Modaresi F., Amanat S., Rahmani A., Toxic effects of sub-acute inhalation exposure to trichloroethylene on serum lipid profile, glucose and biochemical parameters in Sprague Dawley rats, *Inhalation Toxicology*, 30 (2018) 354-360. <https://doi.org/10.1080/08958378.2018.1526233>
- 52) Nourisefat M., Salehi N., **Yousefinejad S.**, Panahi F., Bagherzadeh K., Amanlou M., Khalafi-Nezhad A., Karimi-Jafari M.H., Sheibani N., Moosavi-Movahedi A.A., Biological Evaluation of 9-(1H-Indol-3-yl) xanthen-4-(9H)-ones derivatives as Noncompetitive α -Glucosidase Inhibitors: Kinetics and Molecular Mechanisms, *Structural Chemistry*, 30 (2018) 703-714, <https://doi.org/10.1007/s11224-018-1218-x>
- 53) **Yousefinejad S.***, Mahboubifar M., Rasekh S., Prediction of Different Antibacterial Activity in a New Set of Formyl Hydroxyamino Derivatives with potent action on Peptide Deformylase Using Structural Information, *Structural Chemistry*, 30 (2019) 925-936, <https://doi.org/10.1007/s11224-018-1242-x>
- 54) Amiri F., Neghab M., F. Kargar Shouroki, **Yousefinejad S.**, Hasanzadeh J., Early, Subclinical Hematological Changes Associated with Occupational Exposure to High Levels of Nitrous Oxide, *Toxics*, 4 (2018), 70. <https://doi.org/10.3390/toxics6040070>
- 55) Kargar Shouroki F., Neghab M., Mozdarani H., Alipour H., **Yousefinejad S.**, Fardid R., Genotoxicity of inhalational anesthetics and their relationship with the polymorphisms of GSTT1, GSTM1, and GSTP1 genes, *Environmental Science and Pollution Research*, 26 (2018) 3530–3541.
- 56) **Yousefinejad S.**, Honarasa F., Solvent Property-Ion Conductivity Relationship for Lithium, Sodium and Potassium ions in Non-Aqueous Solvents using QSER, *Journal of Molecular Liquids*, 277 (2019) 705-713
- 57) Ahmad Badeenezhad, Aboalfazl Azhdarpoor, Shima Bahrami, **Yousefinejad S.**, Removal of methylene blue dye from aqueous solutions by natural clinoptilolite and clinoptilolite modified by iron oxide nanoparticles, *Molecular Simulation*, 4 (2019) 564-571.
- 58) Amin M.M., **Yousefinejad S.**, Dehghani M., Rahimi S., Catalytic effect of Fe@Fe₂O₃ nanowires and Fenton process for carbamazepine removal from aqueous solutions using response surface methodology, *Global Journal of Environmental Science and Management*, 5 (2019) 213-224.
- 59) Moeini Z., Azhdarpoor A., **Yousefinejad S.**, Hashemi H., Removal of Atrazine from Water Using Titanium Dioxide Encapsulated in Salicylaldehyde-NH₂-MIL-101 (Cr): Adsorption or Oxidation Mechanism, *Journal of Cleaner Production*, 224 (2019) 238-245

- 60) Ramezani A. M., **Yousefinejad S.***, Shahsavari A., Mohajeri A., Absalan G., New approach in quantitative structure-retention relationship for chromatographic behavior of anthraquinone derivatives through considering organic modifier features in micellar HPLC, *Journal of Chromatography A*, (2019) **In Press**, <https://doi.org/10.1016/j.chroma.2019.03.063>
- 61) Tahghighi A., Maleki-Ravasan N., Dinparast Djadid N., Alipour H., Ahmadvand R., Karimian F., **Yousefinejad S.**, GC–MS analysis and anti–mosquito activities of Juniperus virginiana essential oil against Anopheles stephensi (Diptera: Culicidae), *Asian Pacific Journal of Tropical Biomedicine* 9 (2019), 168-175
- 62) Amin M.M., **Yousefinejad S.**, Dehghani M., Rahimi S., Electro Fenton Process Catalyzed by Fe@Fe₂O₃ Nanowire for degradation of Carbamazepine from Aqueous Solutions, *Desalination and Water Treatment*, **Accepted** (2019)
- 63) Zamanian Z., **Yousefinejad S.**, Khoshnoud M.J., Golbabaie F., Modaresi F., Amanat S., Rahmani A., Toxicological effects of inhalation exposure to trichloroethylene on serum immunoglobulin and electrolyte levels in rats, *Health Scope*, 8 (2019) e80277
- 64) Fakherpour A., Jahangiri M., **Yousefinejad S.**, Seif M., Feasibility of replacing homemade solutions by commercial products for qualitative fit testing of particulate respirators: a mixed effect logistic regression study, *MethodsX*, 6 (2019) 1313-1322.
- 65) Fakherpour A., Jahangiri M., **Yousefinejad S.**, Seif M., Sean Banaee, Assessment of aloe vera for qualitative fit testing of particulate respirators: a logistic regression approach, *Industrial Health*, **Accepted** (2019)
- 66) Bahadori, M., **Yousefinejad S.***, Hemmateenejad B., Quantitative Sequence-Activity Modeling of ACE peptide originated from milk using ACC-QTMS Amino acid indices, *Amino Acids*, 51 (2019) 1209–1220.
- 67) Rashidi R., **Yousefinejad S.**, Mokarami H., Catalytic Ozonation Process Using CuO/ Clinoptilolite zeolite as Catalyst for the Removal of Formaldehyde from the Air Stream, *International Journal of Environmental Science and Technology*, **16** (2019) 6629-6636.
- 68) Samari F., Balouchi L., Salehipoor H., Yousefinejad S., Controllable Phyto-Synthesis of Cupric Oxide Nanoparticles by Aqueous Extract of Capparis Spinosa (Caper) Leaves and Applications in Iron Sensing, *Microchemical Journal* , 150 (2019) 104158 .
- 69) **Yousefinejad S.***, Mahboubifar M., Eskandari R., Quantitative structure-activity relationship to predict the anti-malarial activity in a set of new imidazolopiperazines based on artificial neural networks, *Malaria Journal*, **18** (2019) 310, DOI: 10.1186/s12936-019-2941-5
- 70) Jamshidi F., Dehghani M., **Yousefinejad S.**, Azhdarpoor A., Removal of Alachlor from Aqueous Solutions by TiO₂ Nanoparticles under the UV radiation, *Journal of Experimental Nanoscience*, **14** (2019) 116–128 , DOI: 10.1080/17458080.2019.1677891
- 71) Samari F., Parkhari P., Eftekhari E., Mohseni F., **Yousefinejad S.**, Antioxidant, Cytotoxic and Catalytic Degradation Efficiency of Controllable Phyto-Synthesized Silver Nanoparticles with High Stability using Cordia myxa Extract, *Journal of Experimental Nanoscience* , (2019) **accepted**

Presentation in national and international conferences

- 1) Hemmateenejad B., Yousefinejad S., Multivariate Standard Addition Method Solved by Net Analyte Signal Calculations, *15th Iranian Seminar of Analytical Chemistry, Shiraz, Iran*, Feb, 27 – March, 1, **2007**.
- 2) Hemmateenejad B., Al-Degs Y., El-Sheikh A., Yousefinejad S., Development of a Chemometrics-Assisted Solid Phase Extraction Method for Simultaneous Spectrophotometric Determination of Trace Amounts of Reactive Dyes in Industrial Waste Water, *15th Iranian Seminar of Analytical Chemistry, Shiraz*, Feb, 27 – March, 1, **2007**.
- 3) Nekoeinia M, Hemmateenejad B., Absalan G., Yousefinejad S., Kamran S., MCR-NAS: A combined hard-soft multivariate curve resolution method based on net analyte signal concept for modeling kinetic data with inert interference and baseline drift, *16th Iranian Seminar of Analytical Chemistry, Hamedan, Iran*, 28-30 July **2009**.
- 4) Yousefinejad S., Hemmateenejad B., Mehdipour A.R, QTMS-based descriptors as novel sources of amino acid indices: Application to quantitative structure activity relationship and active site analysis of peptides, *1st National Seminar of Proteomics , Shiraz, Iran*, 28-29 Oct **2010**.
- 5) Hemmateenejad B., Yousefinejad S., Novel Autocorrelation Descriptors Based on Quantum Topological Molecular Similarity to Construct Quantitative Sequence- Activity Models for Peptides, *14th Iranian Physical Chemistry Conference, Kish, Iran*, 25-28, Feb **2011**.
- 6) Yousefinejad S., Hemmateenejad B., Simultaneous spectrophotometric determination of paracetamol and paraaminophenol in pharmaceutical dosage forms using multivariate standard addition methods based on net analyte signal and rank annihilation factor analysis, *3rd Biannual Seminar of Chemometrics, Tabriz, Iran*, 9 – 10 November **2011**.
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- 11) Rahimi M., Salami M., Ghaffari S.M, Zare H., Yousefinejad S. and Moosavi-Movahedi A.A., Time Optimization and Antioxidant Activity of Protein Hydrolysates Prepared from Camel Milk Caseins, *1st Tabriz*

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12) Yousefinejad S., Honarasa F., Abbasitabar F., Model Development Based on Linear Solvation Energy Relationship for the Prediction and Description of the Solubility of C60 in Solvent Phases: A QSPR View on a Nano Scale System, *4th Iranian Biennial Chemometrics Seminar*, Shiraz University, Shiraz, Iran, 27-28 Nov **2013**

13) Saeed N., Yousefinejad S., Prediction of protein amino acids' retardation factor in different solvent mixtures of NP-TLC, *The National Conference on Protein and Peptide Science, From Basic to Medical and Industrial Applications*, Shiraz University, Shiraz, Iran, 10 & 11 Dec **2014**.

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19) Hemmateenejad B., Yousefinejad S., The past, Present and the future of chemometrics in Iran, *22nd Iranian Seminar of Analytical Chemistry*, Chemistry & Chemical Engineering Research Center of Iran, Tehran, Iran, 26-28 Jan **2016** (Key note Lecture presented by Prof. Hemmateenejad)

20) Yousefinejad S., Bahadori M.,_Hemmateenejad B., Discrimination analysis of HIV-1 Protease Interactome using QTMS-based amino acids indices and chemometrics, *23rd Iranian Seminar of Analytical Chemistry*, Sharif University of Technology, Tehran, Iran Aug, 30 – Sep, 1, **2016**

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- 24) Chaabi M., Yousefinejad S., Role of Molar Transition Energy and Basicity of Solvents in Solvation of Pyrene in Organic Phase, *19th Iranian Physical Chemistry Conference*, University of Guilan, Guilan, Iran, 13-15, Sep **2016**
- 25) Zangene F., Yousefinejad S., A Quantitative Structural Study on the Gas-Organic Solvent Partition Coefficient of Anthracene, *19th Iranian Chemistry Congress, Shiraz University*, Shiraz, Iran, 20-23, Feb **2017**.
- 26) Mosahebfard M., Yousefinejad S., Linear Relationship of the Solubility of Trans-Stilbene with doner strength, acidity, polarity and polarizability of solvents, *19th Iranian Chemistry Congress, Shiraz University*, Shiraz, Iran, 20-23, Feb **2017**.
- 27) Rasekh Sahar., Yousefinejad S., QSAR for Antibacterial Activity in a New Set of Formyl Hydroxyamino Derivatives, *19th Iranian Chemistry Congress, Shiraz University*, Shiraz, Iran, 20-23, Feb **2017**.
- 28) Eftekhari R., Yousefinejad S., Investigation of Solvent-Solvent Miscibility in the Binary Mixtures Composed by Methanol and a Set of Different Polar and Non-polar Solvents, *19th Iranian Chemistry Congress, Shiraz University*, Shiraz, Iran, 20-23, Feb **2017**.
- 29) Heidari S. Yousefinejad S., Hemmateenejad B., Using of excitation-emission matrix fluorescence spectra combined with three-way chemometrics analysis to investigate the interaction of hemoglobin with pyrene and anthracene, *19th Iranian Chemistry Congress, Shiraz University*, Shiraz, Iran, 20-23, Feb **2017**.
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- 31) Hemmateenejad B., Bahadori M., Yousefinejad S. Quantitative Structure Sequence Modeling of Angiotensin-I-Converting Enzyme Peptide Originated from Milk Using Amino Acid Indices based on Quantum Topological Molecular Similarity, *6th Iranian Biennial Chemometrics Seminar, University of Mazandaran, Babolsar, Iran*, 26-27 Oct 2017
- 32) Ramezani A. M., Yousefinejad S., Absalan G, Structure-retention time modeling of some anthraquinone-based dyes by considering chain lengths of organic modifiers in the eluent of micellar HPLC, *6th Iranian Biennial Chemometrics Seminar, University of Mazandaran, Babolsar, Iran*, 26-27 Oct 2017
- 33) Akbari S., Yousefinejad S., Structure-retardation relationship for protein amino acids in in two different mobile phases of reverse phase TLC, *The 3rd Conference on Protein and Peptide Sciences, Shiraz University, Shiraz, Iran*, 25&26 Apr 2018

- Yousefinejad S., Hemmateenejad B., Prediction of the dispersibility of graphene in various liquid phases using theoretical descriptors and solvent empirical parameters: A chemometrics approach , *12th Nanotechnology Iranian students conference*, Tehran University of medicinal science, Tehran, 24-25 May **2012**.
- Yousefinejad S., Hemmateenejad B., Interaction Study of Human Serum Albumin and ZnS NPs Using Fluorescence Spectrometry and Chemometrics, *International Congress on Nanoscience & Nanotechnology – ICNN2012, Kashan Iran*, 8-10 Sep **2012**.
- Yousefinejad S., Fotouhi L., Salehi N., Farivar F., Moosavi-Movahedi A. A., Chemical Unfolding Study of Hemoglobin Using Chemometrics Analysis of Merged Spectroscopic Data, *4th Iranian Biennial Chemometrics Seminar*, Shiraz University, Shiraz, Iran, 27-28 Nov **2013**
- Yousefinejad S., Bagheri M., Moosavi-Movahedi, A.A, Toward a Strategy to Describe and Predict Activities of Peptide Drugs Contain L/D and Unnatural Residues: QSAM of Antimicrobial Hexapeptides, *The National Conference on Protein and Peptide Science, From Basic to Medical and Industrial Applications*, Department of Biology, Shiraz University, Shiraz, Iran, 10 & 11 Dec **2014**.
- Yousefinejad S., Hemmateenejad B., Quantitative sequence activity relationship of bitter tasting threshold peptides: a comparison study between some two-way and three-way modeling methods, *5th Iranian Biennial Chemometrics Seminar*, Department of Chemistry, Faculty of Science , University of Tehran, Tehran, Iran, 25-26 Nov **2015**.

Patents

- An anodizing approach for painting the Mobile phone compounds
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Supervisor/Advisor of Thesis

#	Student name / defense year	Degree	Role	Title
1	Negar Saeed 2014	MSc. in Analytical Chemistry	Supervisor	Prediction of Protein Amino Acids' retardation Factor in Different Solvent Mixtures of Normal Phase-Thin Layer Chromatography
2	Leila Aalizadeh 2014	MSc. in Analytical Chemistry	Supervisor	Classification of Furnace Oil, Gas Oil and Mazot Oil using ATR-FTIR Spectroscopy and Chemometrics Methods
3	Maryam Zare 2015	MSc. in Analytical Chemistry	Supervisor	Comparison of different carbon nanostructures on potentiometric performance of carbon paste electrode

4	Mehrnoosh Chaabi 2015	MSc. in Analytical Chemistry	Supervisor	New relationship model for solvent-solubility of pyrene based on molecular structure and experiment
5	Raziyeh Zare 2014	MSc. in Analytical Chemistry	Supervisor	Investigation of solvent properties in carbon-nanotube dispersions using computational and QSPR methods
6	Ali Jafarpour 2015	MSc. in Analytical Chemistry	Supervisor	Investigation of ferrocene solubility in non-aqueous solvents for chemical and electrochemical purposes
7	Somayeh Nasr 2015	MSc. in Analytical Chemistry	Advisor	Structure-Electrochemistry Relationship in Non-aqueous Solutions: Prediction of the Half-Wave Potential of Anthraquinones Derivatives in Different Organic Solvents
8	Azam Abdollahi-Dezaki	MSc. in Analytical Chemistry	Second Supervisor	Prediction of E^T_N Polarity Scale of Ionic Liquids Using a QSPR Approach
9	Rayhaneh Eskandari 2016	MSc. in Analytical Chemistry	Supervisor	Quantitative Structure-Activity Relationship to predict the activity in a set of new Antimalarial Agents
10	Marziyeh Mosahebfard 2016	MSc. in Analytical Chemistry	Supervisor	Investigation of Effective Parameters on the Solubility of Trans-Stilbene with a Solvent-Solute Approach
11	Fahime Zangene 2016	MSc. in Analytical Chemistry	Supervisor	Investigation and modeling of the solubility of Anthracene in Organic phase
12	Sahar Rasekh 2016	MSc. in Analytical Chemistry	Supervisor	Prediction and Description of Antibacterial Activity in a New Set of Formyl Hydroxyamino Derivatives Using Structural Information and Chemometrics
13	Roya Eftekhari 2016	MSc. in Analytical Chemistry	Supervisor	Solvent-Solvent Interactions in a Binary Mixture Composed by Methanol or Ethanol and a Set of Different Polar and Non-polar Solvents
14	Alireza Akbarzadeh 2017	PhD in Chemistry (Iran University of Science and Technology, Tehran, Iran)	Advisor	<i>Prediction of important physicochemical and biological properties of some porphyrins</i>
15	Fatemeh Kargar 2019	PhD in Occupational Health Engineering (Shiraz University of Medical Sciences)	Advisor	<i>Field of study:</i> Genotoxicity and exposure evaluation of some Anesthetizing gases
16	Farnaz Behmami 2019	MSc. in Occupational Health Engineering	Supervisor	<i>Field of study:</i> Development of sampling and analytical strategy to determine pesticides
17	Raziyeh Ashoori 2018	MSc of Environmental Health Engineering	Advisor	<i>Field of study:</i> Removal of water pollutants using electro-coagulation
18	Zahra Jamshidi 2018	MSc in Environmental Health Engineering	Advisor	<i>Field of study:</i> Removal of organic pesticides using combinational methods
19	Somayeh Rahimi 2019	PhD in Environmental Health Engineering (Isfahan University of Medical Sciences)	Advisor	<i>Field of study:</i> Application of core shell nanoparticles, Fenton and electro-Fenton processes to remove antibiotics from wastewater
20	Rasool Rahmani 2019	PhD in Occupational Health Engineering (Shiraz University of	Advisor	<i>Field of study:</i> Effects of Acute and Sub-Acute Exposure to Heat Stress and trichloroethylene on Immune System, Hematological and Metabolic

		Medical Sciences)		Parameters in Rats
21	Sahar Mirzaie 2018	MSc in Environmental Health Engineering	Advisor	<i>The evaluation of chloroform formation possibility as trihalomethanes indicator and its carcinogenic potential in potable water transfer line from Dorudzan Dam to Shiraz city during the period of 2016-2017</i>
22	Fatemeh Jamshidi 2018	MSc in Environmental Health Engineering	Advisor	<i>Removal of Alachlor from Aqueous Solutions by TiO2 Nanoparticles under the UV radiation</i>
23	Raziyeh Aashoori 2018	MSc in Environmental Health Engineering	Advisor	<i>Simultaneous removal of fluoride and nitrate from water using electrocoagulation based on some modified and non-modified electrodes</i>
24	Anahita Fakherpour 2019	MSc. in Occupational Health Engineering	Advisor	<i>Field of study: Fitness solutions to study the fitness of respiratory masks.</i>
25	Fatemeh Amiri 2019	PhD in Occupational Health Engineering (Shiraz University of Medical Sciences)	Advisor	<i>Field of study: Exposure assessment of some Anesthetizing gases in workers of clinical operation rooms.</i>
26	Zohreh Moieni 2019	MSc in Environmental Health Engineering	Advisor	<i>Removal of Atrazine from Water Using Titanium Dioxide Encapsulated in Salicylaldehyde-NH2-MIL-101 (Cr)</i>
27	Morteza Mortazavi (In Progress)	PhD in Occupational Health Engineering (Shiraz University of Medical Sciences)	Advisor	<i>Field of study: Design and evaluation of bioscrubbers for removal of poly-aromatic hydrocarbons from air</i>
28	Sepideh Abbaszadeh (In Progress)	MSc. Student in Occupational Health Engineering	Supervisor	<i>Field of study : Application of liquid Extraction methods in Biological Monitoring</i>
29	Mahmood Sadeghi (In Progress)	PhD Student in Reproduction Biology	Supervisor	<i>Field of study: Metabolomics in polycystic syndrome</i>

BOOK

- *Chemometrics and Image Processing in Thin-Layer Chromatography, (Chapter 25, In: "Chemometrics in Chromatography", Hemmateenejad, B., Talebanpour-Bayat, E., ..., Yousefinejad, S., (2018), CRC Press, Taylor & Francis Group*
- *Nanotechnology for Occupational Health Engineering, (In Persian) (In Press)*

Journal and Conferences Reviewer

- Journal of Chromatography A (*Elsevier*)
- Analytica Chimica Acta (*Elsevier*)
- Amino Acids (*Springer*)
- Journal of Separation Science (*Wiley*)
- Colloids and Surfaces B: Biointerfaces (*Elsevier*)
- Food Chemistry (*Elsevier*)
- Chemosphere (*Elsevier*)
- Fuel (*Elsevier*)
- Industrial & Engineering Chemistry Research (*American Chemical Society, ACS*)
- Spectrochimica Acta A: Molecular and Biomolecular Spectroscopy (*Elsevier*)
- Analytical Methods (*Royal Society of Chemistry, RSC*)
- Journal of Biomolecular Structure and Dynamics (*Taylor & Francis*)
- Fullerenes, Nanotubes and Carbon Nanostructures (*Taylor & Francis*)
- Journal of the Iranian Chemical Society (*Springer*)
- Computer Methods and Programs in Biomedicine (*Elsevier*)
- Current Analytical Chemistry (*Bentham Science*)

- Current Computer-Aided Drug Design (CCADD) (*Bentham Science*)
- Journal of Essential Oil Bearing Plants
- Arabian Journal of Chemistry (*Elsevier*)
- Journal of Saudi Chemical Society (*Elsevier*)
- Journal of Chemistry
- Physical Chemistry and Electrochemistry
- Journal of Applied Solution Chemistry and Modeling
- Current Chemistry Letters
- Journal of Medicinal Chemistry and Drug Designing
- Iranian Journal of Science and Technology (Sciences) (IJSTS)' (*Springer*)
- Physical Chemistry Research (*Iran Chem Soc.*)
- Food Bioscience (*Elsevier*)
- ACS Omega (*ACS, American Chemical Society*)
- Journal of Raman Spectroscopy (*Springer*)
- Environmental Research (*Elsevier*)
- Journal of Food Processing and Preservation (*Wiley*)
- Journal of Molecular Structure (*Elsevier*)
- Current Bioactive Compounds (*Bentham Science*)

Conferences

- 4th Iranian biannual seminar of Chemometrics, Shiraz, Iran (2013)
- 2016 Global Conference on Polymer and Composite Materials (PCM2016)

Teaching Experiences

- Shiraz University of Medical Sciences, Shiraz, Iran
- Department of Chemistry, Shiraz University, Shiraz, Iran
- Islamic Azad University, Shiraz branch, Shiraz, Iran
- Islamic Azad University, Marvdasht branch, Marvdasht, Iran
- Islamic Azad University, Neiriz branch, Neiriz, Iran
- Rajayi College of Technology, Shiraz, Iran
- Farhangian University, Shiraz, Iran

Teaching Courses:

PhD Courses:

- 1- Instrumental Analysis (PhD Course in Occupational Health Engineering),
- 2- Nanotechnology in Occupational Health Sciences (Part 1: Synthesis and Characterization of nanomaterials)
- 3- New Methods in Instrumental Analysis (for PhD students of Medical entomology)

MSc Courses

- 1-Advanced Analytical Chemistry (MSc. Students of Analytical Chemistry),
- 2- Analytical Chemistry (MSc of health of food and Nutrition)
- 3- Sampling and Analysis of Air Pollutions (Joint teaching for MSc. Students of Occupational Health Engineering)

BSc Courses

1-Analytical Chemistry I (Classical Methods) **2-**Analytical Chemistry II (Electrochemistry), **3-** Instrumental Analysis, **4-**Colloidal Chemistry, **5-** Environmental Chemistry, **6-**Analytical Chemistry for Engineering **7-** Analytical Chemistry for Agriculture, **8-**Analytical Chemistry for Food Science and Industries, **9-**Industrial Electrochemistry, **10-**Industrial Chemistry I, **11-**Water and Waste Treatment, **12-**General Chemistry I, **13-** General Chemistry II, **14-** Computer in Chemistry, **15-**MATLAB programming, **16-**Project, **17-** Analytical Chemistry for Health, **18** Analysis and evaluation methods of air pollutants (Occupational Health Engineering) **19-** Introduction to Organic Chemistry **20-**Analytical Chemistry (for Medical entomology),

Different Laboratory Courses: (**1-** Instrumental Analysis, **2-** Analytical Chemistry I& II, **3-** General Chemistry I&II, **4-** Analytical Chemistry for Engineering, **5-** Water and Waste Treatment, **6-** Instrumental Analysis (PhD. of Health Sciences)) **7-** Experiments on Analysis and evaluation methods of air pollutants (Occupational Health Engineering),

**Last Update on:
October/28/ 2019**