

Curriculum Vitae

Personal Data:

| Name | Surname | Date of Birth | Nationality | Sex | Marital Status |
|--------|------------------------|---------------|-------------|--------|----------------|
| Elaheh | Rahimpour-kohne shahry | 1987 | Iranian | Female | Single |

| Telephone | Fax | E-mail |
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| - | | Rahimpour_e@yahoo.com |

Educational Background:(Last One First)

| Certificate Degree | Field of Specialization | Name of Institution Attended | Date Received |
|--------------------|-------------------------|---------------------------------------|---------------|
| Post Doc 2 | Pharmaceutical analysis | Tabriz University of Medical Sciences | 2018 |
| Post Doc 1 | Pharmaceutical analysis | Tabriz University of Medical Sciences | 2017 |
| Ph.D. | Analytical Chemistry | Azarbaijan Shahid Madani | 2015 |
| M.S. | Analytical Chemistry | University ofTabriz | 2012 |
| B.Sc. | Chemistry | University ofTabriz | 2009 |

Title of Post-Graduate Thesis:

Determination of some inorganic and biological species using silver nanostructures by spectrophotometric technique

Title of Doctorate Thesis:

Development of nanomaterials application for invention or enhancement of analytical signal in luminescence methods

Teaching Experiences:(Last One First)

| Title of Course | Level | Dates | | Name of Institution |
|--|----------|-------|----------|---------------------------------------|
| | | From | To | |
| General Chemistry 2 | B.Sc | 2016 | 2016 | Azarbaijan Shahid Madani University |
| Instrumental Analytical Chemistry | B.Sc | 2017 | 2017 | Azarbaijan Shahid Madani University |
| General Chemistry | Pharm. D | 2020 | Ongoing | Tabriz University of Medical Sciences |
| Instrumental Analytical Chemistry | B.Sc | 2020 | On going | Tabriz University of Medical Sciences |
| Advanced Instrumental Analytical Chemistry | M.Sc | 2020 | On going | Tabriz University of Medical Sciences |

National Research Activities:

| Title | Place of Work | Date | | |
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| | | From | To | |
| 1. Developing a fast, easy and low-cost method based on new technologies for determination of oxidative stress biomarkers (hydrogen peroxide, malondialdehyde and 4-hydroxynonenal) | Pharmaceutical Analysis Research Center | 2016 | 2017 | NIMAD, grant number 958773 |

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| 2. Development of a new nanoparticle-based fluorescent probe for determination of carbamazepine in biological samples | Pharmaceutical Analysis Research Center | 2017 | 2018 | NIMAD, grant number 963572 |
| 3. Solubility study of azole antifungals in solvent mixtures at various temperatures and deriving the thermodynamic data | Pharmaceutical Analysis Research Center | 2017 | 2018 | NIMAD, grant number 963573 |
| 4- Development of a new platform based on nanomaterials for selective and sensitive determination of phenobarbital | Pharmaceutical Analysis Research Center | 2019 | 2020 | NIMAD, grant number 977198 |
| 5-Solubility of caffeine and codeine in various cosolvency systems at different temperatures | Pharmaceutical Analysis Research Center | 2019 | 2020 | NIMAD, grant number 977199 |
| 6- Determination of polycyclic aromatic hydrocarbons in exhaled breath condensate of exposed subjects | Pharmaceutical Analysis Research Center | 2019 | 2020 | NIMAD, grant number 977374 |
| 7- Development of a reliable and simple method for determination of tobramycin in exhaled breath condensate | Pharmaceutical Analysis Research Center | 2019 | 2020 | NIMAD, grant number 982942 |
| 8- Development of a nano-material based optical method for determination of daclatasvir dihydrochloride in the biological fluids | Pharmaceutical Analysis Research Center | 2020 | 2021 | NIMAD, grant number 995961 |
| 9-Monitoring the hypnotic effects of anti-cold medicines in the Iranian pharmaceutical market using focus test on driving simulator and determination of chlorpheniramine and diphenhydramine concentrations in the biological samples | Pharmaceutical Analysis Research Center | 2021 | Ongoing | NIMAD, grant number 4000346 |
| 10-Development of a chromatographic method for determination of methylprednisolone in biological samples of COVID-19 patients under mechanical ventilation | Pharmaceutical Analysis Research Center | 2021 | 2022 | NIMAD, grant number 4000353 |

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| 11- Serum levels of atracurium and its correlation with train of four ratio | Pharmaceutical Analysis Research Center | 2021 | 2022 | NIMAD, grant number 4002354 |
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Publications:

A: Books

| Title | Type of Work | | Publisher | Date of Publication |
|---|--------------|-------------|-----------------|---------------------|
| | Translation | Compilation | | |
| Modern analytical chemistry (1) | Translation | | Darvish/ Tabriz | 2015 |
| Modern analytical chemistry (2) | Translation | | Jabbari/Tabriz | 2017 |
| Year book of Research in Pharmaceutical Analysis in Iran (2016) | | Compilation | Shervin | 2018 |
| Year book of Research in Pharmaceutical Analysis in Iran (2018) | | Compilation | Shervin | 2019 |

Publications:

B: Papers

| Title of Paper |
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| 1- Abdolmohammad-Zadeh H, Falaghi S, Rahimpour E. An innovative nano-sorbent for selective solid-phase extraction and spectrophotometric determination of p-amino benzoic acid in cosmetic products. <i>International journal of cosmetic science</i> . 2014 Apr 1;36(2):140-7. |
| 2- Abdolmohammad-Zadeh H, Morshedzadeh F, Rahimpour E. Trace analysis of mefenamic acid in human serum and pharmaceutical wastewater samples after pre-concentration with Ni–Al layered double hydroxide nano-particles. <i>Journal of Pharmaceutical Analysis</i> . 2014 Oct 31;4(5):331-8. |
| 3- Abdolmohammad-Zadeh H, Rahimpour E. A novel chemosensor for Ag (I) ion based on its inhibitory effect on the luminol–H ₂ O ₂ chemiluminescence response improved by CoFe ₂ O ₄ nano-particles. <i>Sensors and Actuators B: Chemical</i> . 2015 Mar 31;209:496-504. |
| 4- Abdolmohammad-Zadeh H, Rahimpour E. CoFe ₂ O ₄ nano-particles functionalized with 8-hydroxyquinoline for dispersive solid-phase micro-extraction and direct fluorometric monitoring of aluminum in human serum and water samples. <i>Analytica chimica acta</i> . 2015 Jun 30;881:54-64. |
| 5- Abdolmohammad-Zadeh H, Rahimpour E. Utilizing of Ag@ AgCl@ graphene oxide@ Fe ₃ O ₄ nanocomposite as a magnetic plasmonic nanophotocatalyst in light-initiated H ₂ O ₂ generation and chemiluminescence detection of nitrite. <i>Talanta</i> . 2015 Nov 1;144:769-77. |
| 6- Abdolmohammad-Zadeh H, Rahimpour E. A novel chemosensor based on graphitic carbon nitride quantum dots and potassium ferricyanide chemiluminescence system for Hg (II) ion detection. <i>Sensors and Actuators B: Chemical</i> . 2016 Mar 31;225:258-66. |
| 7- Sami S, Rahimpour E. Functionalization of Multi-Walled Carbon Nanotubes by 1-Amino-2-Naphthol-4-Sulfonic Acid and Study of Their Antimicrobial Activity Against The Gram-negative and Gram-positive Bacterias. <i>Oriental Journal of Chemistry</i> . 2015 Dec 16;31(4):2195-200. |
| 8- Amjadi M, Rahimpour E. Silver nanoparticles plasmon resonance-based method for the determination of uric acid in human plasma and urine samples. <i>Microchimica Acta</i> . 2012 Sep 1;178(3-4):373-9. |

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| <p>9- Abdolmohammad-Zadeh H, Rahimpour E, Hosseinzadeh A, Zamani-Kalajahi M. Aluminum (III)-doped ZnO@ Fe₃O₄ nanocomposite as a magnetic sorbent for preconcentration of cadmium (II). <i>Microchimica Acta</i>. 2017 Mar 11:1-8.</p> |
| <p>10- Pirhayati FH, Shayanfar A, Rahimpour E, Barzegar-Jalali M, Martinez F, Jouyban A. (2017) Solubility of sildenafil citrate in polyethylene glycol 400+ water mixtures at various temperatures. <i>Journal of Molecular Liquids</i>. 240:268-272.</p> |
| <p>11- Jouyban A, Rahimpour E, Jouyban-Gharamaleki V, Khoubnasabjafari M, Abdolmohammad-Zadeh H. Development and validation of a novel fluorometric sensor for hydrogen peroxide monitoring in exhaled breath condensate. <i>Analytical Methods</i>. 2017;9(30):4371-9.</p> |
| <p>12- Baghban A, mohammad jabbari, Rahimpour E. Fe₃O₄@ polydopamine core-shell nanocomposite as a sorbent for efficient removal of Rhodamine B from aqueous solutions: Kinetic and equilibrium studies. <i>Iranian Journal of Chemistry and Chemical Engineering (IJCCE)</i>. 2017; 37, 17-28.</p> |
| <p>13- Pirhayati, F. H., Shayanfar, A., Rahimpour, E., Barzegar-Jalali, M., Martinez, F., & Jouyban, A. Solubility of sildenafil citrate in propylene glycol+ water mixtures at various temperatures. <i>Physics and Chemistry of Liquids</i>, 2018;56(4):508-517.</p> |
| <p>14- Jouyban A, Abbasi M, Rahimpour E, Barzegar-Jalali M, Vaez-Gharamaleki J. Deferiprone solubility in some non-aqueous mono-solvents at different temperatures: experimental data and thermodynamic modelling. <i>Physics and Chemistry of Liquids</i>. 2017;56: 619-626.</p> |
| <p>15- Abdolmohammad-Zadeh H., Rahimpour E, Bahramzadeh, S., Trace Determination of Lead After Separation and Pre-Concentration with an Adsorbent Based on Magnetic Ni-Doped CeO₂ Nano Composite, <i>Journal of Research Analytica</i>, 2017;3:135-142.</p> |
| <p>16- Mohammadian, E., Rahimpour, E., Martinez, F. and Jouyban, A., 2018. Solubility of budesonide in {ethanol+ water} mixtures from T=(293.2 to 313.2) K: Experimental measurement and mathematical modelling. <i>Physics and Chemistry of Liquids</i>, 56(6), pp.751-758.</p> |
| <p>17- Khoubnasabjafari, M., Rahimpour, E., & Jouyban, A. Exhaled breath condensate as an alternative sample for drug monitoring. <i>Bioanalysis</i>, 2018; 10: 61-64.</p> |
| <p>18- Barzegar-Jalali, M., Rahimpour, E., Martinez, F. and Jouyban, A., 2018. Determination and mathematical modelling of budesonide solubility in N-methyl-2-pyrrolidone+ water mixtures from T= 293.2 to 313.2 K. <i>Physics and Chemistry of Liquids</i>, 56(6), pp.834-842.</p> |
| <p>19- Babaei, M., Shayanfar, A., Rahimpour, E., Barzegar-Jalali, M., Martinez, F. and Jouyban, A., 2019. Solubility of bosentan in {propylene glycol+ water} mixtures at various temperatures: experimental data and mathematical modelling. <i>Physics and Chemistry of Liquids</i>, 57(3), pp.338-348.</p> |
| <p>20- Rahimpour, E., Barzegar-Jalali, M., Shayanfar, A., & Jouyban, A. Generally trained models to predict drug solubility in N-methyl-2-pyrrolidone+ water mixtures at various temperatures. <i>Journal of Molecular Liquids</i>, 2018; 254: 34-38.</p> |
| <p>21- Saadatfar, F., Shayanfar, A., Rahimpour, E., Barzegar-Jalali, M., Martinez, F., Bolourtchian, M., & Jouyban, A. (2018). Measurement and correlation of clotrimazole solubility in ethanol+ water mixtures at T=(293.2 to 313.2) K. <i>Journal of Molecular Liquids</i>, 256, 527-532.</p> |
| <p>22- Tinjacá, D. A., Muñoz, M. M., Rahimpour, E., Jouyban, A., Martínez, F., & Jr, W. E. A. Solubility and apparent specific volume of sucrose in some aqueous polyethylene glycol mixtures at 298.2 K. <i>Pharmaceutical Science (Tabriz)</i>. 2018; 24:163-167.</p> |
| <p>23- Barzegar-Jalali, M., Rahimpour, E., Martinez, F. and Jouyban, A., 2019. Solubility and thermodynamics of lamotrigine in carbitol+ water mixtures from T=(293.2 to 313.2) K. <i>Chemical Engineering Communications</i>, 206(2), pp.182-192.</p> |
| <p>24- Rahimpour, E., Jouyban, A., & Acree Jr, W. E. Comment on “Measurement and Correlation of the Solubility of 2, 6-Dihydroxybenzoic Acid in Alcohols and Binary Solvents”. <i>Journal of Chemical & Engineering Data</i>. 2018. <i>J. Chem. Eng. Data</i>, 2018, 63 (6), pp 2329–2331</p> |

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| 25- Abdolmohammad-Zadeh, H., Rahimpour, E., & Bahramzadeh, S. An Innovative Nanosorbent Based on ZnO@ Ag2O@ Fe3O4 Nanocomposite-for Extraction and Preconcentration of Cd (II) Ions from Water Samples. <i>Analytical and Bioanalytical Chemistry Research</i> , 2018; 5(2): 229-247. |
| 26- Barzegar-Jalali, M., Rahimpour, E., Martinez, F., & Jouyban, A. Generally trained models to predict drug solubility in methanol+ water mixtures. <i>Journal of Molecular Liquids</i> , 2018; 264: 631-644. |
| 27-Barzegar-Jalali, M., Mirheydari, S.N., Rahimpour, E., Shekaari, H., Martinez, F. and Jouyban, A., 2019. Experimental determination and correlation of bosentan solubility in (PEG 200+ water) mixtures at T=(293.15–313.15) K. <i>Physics and Chemistry of Liquids</i> , 57(4), pp.504-515. |
| 28- Zadali Asghar, S., Jouyban, A., Martinez, F., & Rahimpour, E. Solubility of naproxen in ternary mixtures of {ethanol+ propylene glycol+ water} at various temperatures: Data correlation and thermodynamic analysis. <i>Journal of Molecular Liquids</i> . 2018; 268:517-522. |
| 29- Sargazi, H.R., Tamizi, E., Rahimpour, E. and Jouyban, A., 2018. Development of a Micellar Electrokinetic Chromatographic Method with Indirect UV Detection for Pregabalin Determination in Serum Samples. <i>Pharmaceutical Sciences</i> , 24(4), p.298. |
| 30- Rahimpour, E., Khoubnasabjafari, M., Jouyban-Gharamaleki, V. and Jouyban, A., 2018. Non-volatile compounds in exhaled breath condensate: review of methodological aspects. <i>Analytical and bioanalytical chemistry</i> , 410(25), pp.6411-6440. |
| 31- Pourkarim, F., Rahimpour, E., Khoubnasabjafari, M., Jouyban-Gharamaleki, V. and Jouyban, A., 2019. Direct monitoring of verapamil level in exhaled breath condensate samples. <i>Pharm. Sci</i> , 25, pp.50-56. |
| 32- Barzegar-Jalali, M., Jouyban, A., Mohammadian, E., Martinez, F. and Rahimpour, E., 2018. Budesonide solubility in some non-aqueous mono-solvents at different temperatures: Measurements and mathematical correlation with Abraham model. <i>Journal of Molecular Liquids</i> . 269: 461-466. |
| 33- Barzegar-Jalali, M., Rahimpour, E., Acree Jr, W.E. and Jouyban, A., 2018. A global version of Modified Wilson model for solubility prediction of drugs in methanol+ water mixtures. <i>Journal of Molecular Liquids</i> . 269:609-618. |
| 34- Echeverry, L.C., Muñoz, M.M., Tinjacá, D.A., Martinez, F., Peña, M.A., Rahimpour, E., Jouyban, A. and Acree Jr, W.E., 2019. Equilibrium solubility and apparent specific volume of lidocaine. HCl. H2O in some {cosolvent (1)+ water (2)} mixtures at 298.2 K. <i>Physics and Chemistry of Liquids</i> , 57(5), pp.679-688. |
| 35- Barzegar-Jalali, M., Mirheydari, S.N., Rahimpour, E., Shekaari, H., Martinez, F. and Jouyban, A., 2019. Measurement and modelling of solubility data for bosentan in 1-propanol+ water mixtures at various temperatures. <i>Physics and Chemistry of Liquids</i> , 57(5), pp.640-649. |
| 36- Jouyban-Gharamaleki, V., Jouyban, A., Acree, W.E. and Rahimpour, E., 2019. Smart systems for determination of drug's solubility. <i>Drug development and industrial pharmacy</i> , 45(2), pp.177-187.. |
| 37- Mirzaeei, S., Pirhayati, F.H., Mohammadi, G., Rahimpour, E., Martinez, F. and Jouyban, A., 2019. Solubility of minoxidil in binary mixture of ethanol+ water at various temperatures. <i>Physics and Chemistry of Liquids</i> , 57(6), pp.788-799.. |
| 38- Ahmadian, E., Dizaj, S. M., Rahimpour, E., Hasanzadeh, A., Eftekhari, A., Halajzadeh, J., & Ahmadian, H. (2018). Effect of silver nanoparticles in the induction of apoptosis on human hepatocellular carcinoma (HepG2) cell line. <i>Materials Science and Engineering: C</i> , 93, 465-471. |
| 39- Hatefi, A., Jouyban, A., Mohammadian, E., Acree Jr, W. E., & Rahimpour, E. (2019). Prediction of paracetamol solubility in cosolvency systems at different temperatures. <i>Journal of Molecular Liquids</i> , 273, 282-291. |
| 40- Norouzi, F., Jouyban, A., Martinez, F., Barzegar-Jalali, M. and Rahimpour, E., 2019. Solubility of celecoxib in carbitol+ water mixtures at various temperatures: experimental data and mathematical modelling. <i>Physics and Chemistry of Liquids</i> , 57(6), pp.755-767. |

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| 41- Mohammadian, E., Rahimpour, E., Martinez, F. and Jouyban, A., 2019. Budesonide solubility in polyethylene glycol 400+ water at different temperatures: Experimental measurement and mathematical modelling. <i>Journal of Molecular Liquids</i> , 274, pp.418-425. |
| 42- Mohammadian, E., Rahimpour, E., Barzegar-Jalali, M., Dadmand, S., Martinez, F. and Jouyban, A., 2020. Solubility of celecoxib in 1-propanol+ water mixtures at T=(293.2–313.2) K: experimental data and thermodynamic analysis. <i>Physics and Chemistry of Liquids</i> , 58(2), pp.175-183. |
| 43-- Mohammadian, E., Barzegar-Jalali, M. and Rahimpour, E., 2019. Solubility prediction of lamotrigine in cosolvency systems using Abraham and Hansen solvation parameters. <i>Journal of Molecular Liquids</i> , 276, pp.675-679. |
| 44- Rezaei, H., Jouyban, A., Barzegar-Jalali, M., Martinez, F. and Rahimpour, E., 2019. Solubility of lamotrigine in 2-propanol+ water mixtures at T=(293.2 to 313.2) K. <i>Journal of Molecular Liquids</i> , 278, pp.592-599. |
| 45- Hatefi, A., Rahimpour, E., Khoubnasabjafari, M., Edalat, M., Jouyban-Gharamaleki, V., Alvani-Alamdari, S., Nokhodchi, A., Pournaghi-Azar, M.H. and Jouyban, A., 2019. A single-shot diagnostic platform based on copper nanoclusters coated with cetyl trimethylammonium bromide for determination of carbamazepine in exhaled breath condensate. <i>Microchimica Acta</i> , 186(3), p.194. |
| 46- Pirhayati, F.H., Mirzaeei, S., Rahimpour, E., Mohammadi, G., Martinez, F., Taghe, S. and Jouyban, A., 2019. Experimental and computational approaches for measuring minoxidil solubility in propylene glycol+ water mixtures at different temperatures. <i>Journal of Molecular Liquids</i> , 280, pp.334-340. |
| 47- Hatefi, A., Rahimpour, E., Ghafourian, T., Martinez, F., Barzegar-Jalali, M. and Jouyban, A., 2019. Solubility of ketoconazole in N-methyl-2-pyrrolidone+ water mixtures at T=(293.2 to 313.2) K. <i>Journal of Molecular Liquids</i> , 281, pp.150-155. |
| 48- Khoubnasabjafari, M., Rahimpour, E., Samini, M., Jouyban-Gharamaleki, V., Chen, L., Chen, D., Chan, H.K. and Jouyban, A., 2019. A new hypothesis to investigate bioequivalence of pharmaceutical inhalation products. <i>DARU Journal of Pharmaceutical Sciences</i> , 27(1), pp.517-524.8. |
| 49- Fathi Azarbayjani, A., Aliasgharlou, N., Khoshbakht, S., Ghanbargpour, P., Rahimpour, E., Barzegar-Jalali, M. and Jouyban, A., 2019. Experimental Solubility and Density Functional Theory Studies of Deferasirox in Binary Solvent Mixtures: Performance of Polarizable Continuum Model and Jouyban–Acree Model. <i>Journal of Chemical & Engineering Data</i> , 64(6), pp.2273-2279. |
| 50- Alvani-Alamdari, S., Jouyban, A., Khoubnasabjafari, M., Nokhodchi, A. and Rahimpour, E., 2019. Efficiency comparison of nylon-6-based solid-phase and stir bar sorptive extractors for carbamazepine extraction. <i>Bioanalysis</i> , 11(09), pp.899-911. |
| 51- Jouyban, A., Rahimpour, E. and Acree, W., 2019. Further Analysis on Solubility Measurement and Thermodynamic Modeling of Benzoic Acid in Monosolvents and Binary Mixtures. <i>Pharmaceutical Sciences</i> , 25(2), pp.165-170. |
| 52- Mohammadian, E., Jouyban, A., Barzegar-Jalali, M., Acree Jr, W.E. and Rahimpour, E., 2019. Solubilization of naproxen: Experimental data and computational tools. <i>Journal of Molecular Liquids</i> , p.110985. |
| 53- Zadaliasghar, S., Rahimpour, E., Ghafourian, T., Martinez, F., Barzegar-Jalali, M. and Jouyban, A., 2019. Measurement and mathematical modeling of ketoconazole solubility in propylene glycol+ water mixtures at various temperatures. <i>Journal of Molecular Liquids</i> , p.111246. |
| 54- Hatefi, A., Rahimpour, E., Martinez, F., Barzegar-Jalali, M. and Jouyban, A., 2019. Ketoconazole solubility in aqueous binary mixtures of 1-propanol at various temperatures. <i>Journal of Molecular Liquids</i> , p.111382. |
| 55- Alvani-Alamdari, S., Rezaei, H., Rahimpour, E., Hemmati, S., Martinez, F., Barzegar-Jalali, M. and Jouyban, A., 2019. Mesalazine solubility in the binary mixtures of ethanol and water at various temperatures. <i>Physics and Chemistry of Liquids</i> , pp.1-14. |
| 56- Hatefi, A., Rahimpour, E., Ghafourian, T., Martinez, F., Barzegar-Jalali, M. and Jouyban, A., 2020. Solubility of sildenafil citrate in the binary mixtures of ethylene glycol and water at different temperatures. <i>Journal of Molecular Liquids</i> , 299, p.112127. |

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| 57- Rahimpour, E., Mohammadian, E., Acree Jr, W.E. and Jouyban, A., 2020. Computational tools for solubility prediction of celecoxib in the binary solvent systems. <i>Journal of Molecular Liquids</i> , 299, p.112129. |
| 58- Jouyban-Gharamaleki, V., Rahimpour, E., Hemmati, S., Martinez, F. and Jouyban, A., 2020. Mesalazine solubility in propylene glycol and water mixtures at various temperatures using a laser monitoring technique. <i>Journal of Molecular Liquids</i> , 299, p.112136. |
| 59- Pourkarim, F., Rahimpour, E. and Jouyban, A., 2019. Analytical techniques for the determination of verapamil in biological samples and dosage forms: an overview. <i>Bioanalysis</i> , 11(23), pp.2189-2205. |
| 60- Zadaliasghar, S., Jouyban, A., Martinez, F., Barzegar-Jalali, M. and Rahimpour, E., 2020. Solubility of ketoconazole in the binary mixtures of 2-propanol and water at different temperatures. <i>Journal of Molecular Liquids</i> , 300, p.112259. |
| 61- Rezaei, H., Rahimpour, E., Ghafourian, T., Martinez, F., Barzegar-Jalali, M. and Jouyban, A., 2020. Solubility of caffeine in N-methyl-2-pyrrolidone+ ethanol mixture at different temperatures. <i>Journal of Molecular Liquids</i> , 300, p.112354. |
| 62- Rezaei, H., Rahimpour, E., Martinez, F. and Jouyban, A., 2020. Solubility of caffeine in carbitol+ ethanol mixture at different temperatures. <i>Journal of Molecular Liquids</i> , 301, p.112465. |
| 63- Rezaei, H., Rahimpour, E., Khoubnasabjafari, M., Jouyban-Gharamaleki, V. and Jouyban, A., 2020. A colorimetric nanoprobe based on dynamic aggregation of SDS-capped silver nanoparticles for tobramycin determination in exhaled breath condensate. <i>Microchimica Acta</i> , 187(3), pp.1-9. |
| 64- Jouyban-Gharamaleki, V., Jouyban, A., Kuentz, M., Hemmati, S., Martinez, F. and Rahimpour, E., 2020. A laser monitoring technique for determination of mesalazine solubility in propylene glycol and ethanol mixtures at various temperatures. <i>Journal of Molecular Liquids</i> , 304, p.112714. |
| 65- Rahimpour, E., Alvani-Alamdari, S. and Jouyban, A., 2020. A Comprehensive Review on Developed Pharmaceutical Analysis Methods by Iranian Analysts in 2018. <i>Pharmaceutical Sciences</i> , 26(2), pp.107-132. |
| 66- Hatefi, A., Alvani-Alamdari, S., Rahimpour, E., Khoubnasabjafari, M., Jouyban-Gharamaleki, V. and Jouyban, A., 2020. Determination of benzo (a) pyrene in the exhaled breath condensate of cigarette smokers by microextraction and HPLC-UV. <i>Analytical Methods</i> , 12(14), pp.1889-1895. |
| 67- Amini, R., Rahimpour, E. and Jouyban, A., 2020. An optical sensing platform based on hexacyanoferrate intercalated layered double hydroxide nanozyme for determination of chromium in water. <i>Analytica Chimica Acta</i> 1117 pp. 9- 17. |
| 68- Rezaei, H., Jouyban, A., Martinez, F., Barzegar-Jalali, M. and Rahimpour, E., 2020. Solubility of codeine phosphate in carbitol+ 2-propanol mixture at different temperatures. <i>Drug Development and Industrial Pharmacy</i> , 46(6), pp.910-915.20. |
| 69- Jouyban, A. and Rahimpour, E., 2020. Optical sensors based on silver nanoparticles for determination of pharmaceuticals: An overview of advances in the last decade. <i>Talanta</i> , p.121071. |
| 70- Alvani-Alamdari, S., Sajedi-Amin, S., Salehi, R., Rahimpour, E. and Naseri, A., 2020. Development of a new magnetic nanogel based on a copolymer of polyacrylic acid-co-acrylamide-co- β -cyclodextrin for extraction/pre-concentration of doxorubicin from biological samples. <i>Journal of the Iranian Chemical Society</i> , 17(12), pp.3205-3216. |
| 71- Jouyban, A., Agha, E.M.H., Rahimpour, E. and Acree Jr, W.E., 2020. Further computation and some comments on "Stearic acid solubility in mixed solvents of (water+ ethanol) and (ethanol+ ethyl acetate): Experimental data and comparison among different thermodynamic models". <i>Journal of Molecular Liquids</i> , p.113228. |
| 72- Pourkarim, F., Rahimpour, E., Khoubnasabjafari, M., Jouyban-Gharamaleki, V., Farhang, S. and Jouyban, A., A Simple Colorimetric Method for Determination of Ethanol in Exhaled Breath Condensate. <i>Pharm. Sci.</i> In Press. |

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| 73- Moradi, M., Rahimpour, E., Hemmati, S., Martinez, F., Barzegar-Jalali, M. and Jouyban, A., 2020. Solubility of mesalazine in + water mixtures at different temperatures. <i>Journal of Molecular Liquids</i> , p.113546. |
| 74- Jouyban, A. and Rahimpour, E., 2020. Sensors/nanosensors based on upconversion materials for the determination of pharmaceuticals and biomolecules: An overview. <i>Talanta</i> , p.121383. |
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Research Interests:

properties of various nanoparticles and quantum dots and their application in analytical spectroscopic methods

Sample preparation and trace determination of organic and inorganic chemical species by analytical spectroscopic methods

Determination and mathematical modelling of drug solubility

Papers Presented at National and International Scientific Assemblies:

| Title of Paper | Title and Place of Assembly | Date |
|--|--|------|
| 1- Synthesis, characterization and application of aluminium doped ZnO@Fe ₃ O ₄ nano-particles as a magnetic sorbent for removal of Cd(II) ions from water | 17th Iranian Inorganic Chemistry Conference | 2015 |
| 2- An ultrasound-assisted approach for grafting of cobalt ferrite nano-particles with oxine in the presence of sodium dodecyl sulfate for separation and direct determination of Al(III) ion | 7th Black Sea Basin Conference on Analytical Chemistry | 2015 |
| 3- determination of uric acid in biological samples based on RSP of silver nanoparticles | 13 th Nanotechnology Iranian Students Conference | 2013 |
| 4- Silver nanoparticles resonance-based method for the determination of nicotinamide adenine dinucleotide (NADH) | 15 th Iranian Chemistry Congress | 2011 |
| 5-A silver plasmon resonance-based sensor for the determination of selenium | 20 th Iranian Analytical Chemistry Congress | 2013 |
| 6-Selective extraction and determination of cadmium (II) ions by flame atomic absorption spectrometry after preconcentration on an ion-imprinted polydopamine-coated magnetic graphene | 6th International Conference on Nanostructures | 2016 |
| 7- A CoFe ₂ O ₄ fluid-based dispersive solid-phase micro-extraction and direct fluorometric monitoring of aluminium in environmental samples | Asian Nano Forum Conference | 2014 |
| 8- Utilizing of a magnetic ZnO@Ag ₂ O nanocomposite as a sorbent for solid phase extraction of Cd(II) ions from water samples | 7th International congress on Nanoscience and Nanotechnology: Basic and Application | 2017 |
| 9- Solubility, modeling and thermodynamic properties of budesonide in ethanol – water mixtures from T = (293.2 to 313.2) K | 4 th International conference on applied research in chemistry science and biology. | 2017 |
| 10- Determination and mathematical modelling of celecoxib solubility in carbitol + water mixtures from T = (293.2 to 313.2) K | 21 st Iranian Pharmacy Students Seminar | 2018 |
| 11- Application of molecular imprinted polymers based stir bar for selective extraction and pre-concentration of carbamazepine in biological samples | The 25th Iranian Seminar of Analytical Chemistry | 2018 |
| 12- Direct monitoring of verapamil level in exhaled breath condensate samples by fluorimetric assay | 21 st Iranian Pharmacy Students Seminar | 2018 |

Awards, Honorary Degrees, Medals and Positions:

| | Title of Award, Medal, Position |
|---|--|
| 1 | Awarded prize in 6 th Iran Harekat University Students Festival, Azarbaijan Shahid Madani University. 2014. |
| 2 | Awarded prize of secound place in startup weekend of Engineering Science holding in Tabriz. 2015. |
| 3 | Awarded prize of Dr. kazemi ashtiani, National Elite Foundation. 2018 |
| 4 | 2020; Top Researcher of Tabriz University of Medical Sciences (Tabriz, Iran) |

Membership to Scientific Associations:

| | Name of Institution/Association |
|---|---|
| 1 | Member of Iranian Chemical Society |
| 2 | Member of Talent Office of Azarbaijan Shahid Madani University. |