

Curriculum Vitae (updated at 21 August 2024)

Personal data:

- *Name: Jafar Soleymani (Selected as Top 2% Scientists Worldwide 2023 by Stanford University)*
- *Year of birth: 1984*
- *Gender: Male*
- *Nationality: Iranian (Jolfa-East Azarbayjan)*
- *Marital status: Married*



Contact information:

Asistente Professor of Pharmaceutical Biomaterials at Pharmaceutical Analysis Research Center, Tabriz University of Medical Sciences, Tabriz, Iran

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Google scholar H-index:30, i10-index: 64 and Total Citations: 2362.

Scopus H-index: 28, Total Citations: 2076.

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Education:

- *B.Sc in Applied Chemistry: 2002-2006, Kharazmi University, Tehran, Iran*
- *M.Sc. in Analytical Chemistry: 2006-2009, University of Tabriz, Tabriz, Iran*
- *PhD in Pharmaceutical Biomaterials:2016-2019, Tabriz University of Medical Sciences, Tabriz, Iran*

Teaching activities:

- *Physical chemistry- BSc*
- *Physical chemistry Lab-BSc*
- *Writing of scientific papers and documentation-PhD*
- *Instrumental chemistry-BSc*
- *Instrumental chemistry-MSc*

Research Interests

- *Synthesis of new advanced materials for bioimaging and localization of solid tumors*
- *Fabrication of cancer diagnosis point-of-care testing (POCT) devices and methods*
- *Fabrication of Cytosensors*
- *Bio-sensing*
- *Microfluidic systems*

Reviewer of (Selected):

- *Biosensors and Bioelectronics*
- *Current Analytical Chemistry*
- *Current Nanoscience*
- *Frontiers in Chemistry*
- *Advanced Pharmaceutical Bulletin*
- *Microchimica Acta*
- *Talanta*
- *ACS-Analytical Chemistry*
- *Arabian Journal of Chemistry*
- *Scientific Reports*
- *Microchimical Journal*
- *International Journal of Nanomedicine*
- *Optik*
- *Analytical Biochemistry*
- *Spectrochimica Acta*
- *Critical Reviews in Analytical Chemistry*
- *Chemical papers*
- *Bioelectrochemistry*
- *ImmunoAnalysis*
- ...

Editor of:

- *Frontiers in Chemistry*

Awards:

- *The prominent researcher in the field of Pharmaceutical Analysis in Iran, Student research committee, 2019, Tehran, Iran.*
- *The best PhD student in East Azerbaijan, Dr. Poolad Prize, 2019, Tabriz, Iran.*
- *The best (No. 1) PhD student in Tabriz University of Medical Sciences, 2018, Tabriz, Iran.*
- *Selected Top Thesis, Differentiation of cancerous from normal cells using electrochemical or spectroscopic nanosensor, Iran National Science Foundation, Tehran, Iran. Grant no. 97010508.*

Grants:

- *Elite researcher grant, Differentiation of cancerous from normal cells using electrochemical or spectroscopic nanosensor, National Institute for Medical Research Developments, Grant no. 963570. (Grant: 262/500/000 Rials, 2000\$)*
- *Elite researcher grant, Targeting and sensing of some cancer cells using optical probes based on advanced nanomaterials, National Institute for Medical Research Developments, Grant no. 971239. (Grant: 275/000/000 Rials, 2500\$)*
- *Elite researcher grant, Sensitive detection of cancer cells based on folate bioreceptor interaction in cell membrane: A new platform in early stage diagnosis of colorectal cancer, National Institute for Medical Research Developments, Grant no. 971248. (Grant: 275/000/000 Rials, 2500\$)*
- *Elite researcher grant, Novel optical methods for heavy metal: Detection of lead and cadmium, National Institute for Medical Research Developments, Grant no. 973100. (Grant: 275/000/000 Rials, 2500\$)*
- *Young researcher grant, Isolation and determination of cancer cells using*

Publications in International Journals:

- [1] M. Abbasi, A. Jouyban, F. Ranjbar, J. Soleymani, A versatile ratiometric fluorescence nanoprobe for the determination of clonazepam in patients' plasma samples, *J. Mol. Recognit.* 37 (2024). <https://doi.org/10.1002/jmr.3088>.
- [2] S. Khadivi-Derakhshan, M. Pirouzmand, M.D. Esrafil, J. Soleymani, Biocompatible citrate-cysteine complexes of manganese as effective antioxidants: Experimental and computational studies, *J. Mol. Struct.* 1306 (2024) 137950. <https://doi.org/10.1016/j.molstruc.2024.137950>.
- [3] M. Gazizadeh, G. Dehghan, J. Soleymani, Detection of pioglitazone based on dual-emission ratiometric fluorescence probe consisting of ZIF8 and to L-ASC-AuNP/DA nanoparticles, *Microchim. Acta.* 191 (2024). <https://doi.org/10.1007/s00604-023-06082-6>.
- [4] A. Herischi, M. Ghobeh, J. Soleymani, Comparative study on the effects of several erythrocyte lysing buffers on the extraction of genomic dna from frozen blood samples in evaluation of telomere length by qpcr method, *URMIAMJ.* 35 (2024) 274–286. <http://umj.umsu.ac.ir/article-1-6250-en.html>.
- [5] S.M.H. Pourmand, N. Hashemzadeh, J. Soleymani, A. Jouyban, Y. Vaez-Gharamaleki, E. Rahimpour, Utilizing a graphene quantum dot/hydrogel nanocomposite for determination of cisplatin in urine samples, *RSC Adv.* 14 (2024) 25329–25336.
- [6] M. Azimirad, F. Javaheri-Ghezeldizaj, J. Soleymani, J.E.N. Dolatabadi, M. Torbati, Spectroscopic aspects on the interaction of nisin with serum albumin: thermodynamic and kinetic studies, *BioImpacts.* 13 (2023) 467–474. <https://doi.org/10.34172/bi.2023.27754>.
- [7] V. Jouyban-Gharamaleki, H. Jin, A. Jouyban, J. Soleymani, The influence of advanced materials on the analytical performance of semiconductor-based gas sensors, *Phys. Chem. Chem. Phys.* (2023). <https://doi.org/10.1039/d3cp01756g>.
- [8] P. Shahbazi-Derakhshi, M. Abbasi, A. Akbarzadeh, A. Mokhtarzadeh, H. Hosseinpour, J. Soleymani, A ratiometric electrochemical probe for the quantification of apixaban in unprocessed plasma samples using carbon aerogel/BFO modified glassy carbon electrodes, *RSC Adv.* 13 (2023) 21432–21440. <https://doi.org/10.1039/d3ra03293k>.
- [9] R. Oladi-Ghadikolaie, A. Aliasgharzadeh, A. Shayanfar, J. Soleymani, M. Moradi, A. Jouyban, H.T. Khosroshahi, Serum Levels of Indoxyl Sulfate and P-cresol in Type II Diabetic Patients With and Without Nephropathy, *Iran. J. Kidney Dis.* 17 (2023) 126–134. <https://doi.org/10.52547/ijkd.7266>.
- [10] Z. Golsanamlou, M. Mahmoudpour, J. Soleymani, A. Jouyban, Applications of Advanced Materials for Non-Enzymatic Glucose Monitoring: From Invasive to the Wearable Device, *Crit. Rev. Anal. Chem.* 53 (2023) 1116–1131. <https://doi.org/10.1080/10408347.2021.2008227>.
- [11] M. Gazizadeh, G. Dehghan, J. Soleymani, A dual-emission ratiometric fluorescent biosensor for ultrasensitive detection of glibenclamide using S-CDs/CdS quantum dots, *Spectrochim. Acta - Part A Mol. Biomol. Spectrosc.* 297 (2023). <https://doi.org/10.1016/j.saa.2023.122714>.
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- [13] E. Lulek, J. Soleymani, M. Molaparast, Y.N. Ertas, Electrochemical sensing of doxorubicin hydrochloride under sodium alginate antifouling conditions using silver nanoparticles modified glassy carbon electrodes, *Talanta.* 265 (2023). <https://doi.org/10.1016/j.talanta.2023.124846>.
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<https://doi.org/10.1016/j.molstruc.2022.134659>.
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- [20] M. Moradi, J. Soleymani, A. Jouyban, A combination of amino-functionalized fibrous silica (KCC-1-NH₂)/effectively and efficiently oxidized graphene oxide (EEO) nanocomposite for dispersive solid-phase extraction, pre-concentration and fluorescence determination of total para-cresol in plasm, *J. Pharm. Biomed. Anal.* 214 (2022). <https://doi.org/10.1016/j.jpba.2022.114746>.
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<https://doi.org/10.1016/j.advms.2022.07.004>.
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Book

1. The Role of Additive Manufacturing in Flexible and Wearable Sensors, in: R.K. Gupta (Ed.), *Flex. Wearable Sensors Mater. Technol. Challenges*, CRC Press, Boca Raton, FL, 2023: p. 335. <https://doi.org/10.1201/9781003299455>.

Supervised Students (Selected)

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Mahmood Ershadi	Medicine	Tabriz University of Medical Sciences	mershadii66@gmail.com
Sina Arshadi	Medicine	Tabriz University of Medical Sciences	-
Reza Soleymanzadeh	Medicine	Tabriz University of Medical Sciences	r.soleyman77@gmail.com
Amin Nikazar	Medicine	Tabriz University of Medical Sciences	amin.nikazar@gmail.com
Ali Alipour	Medicine	Tabriz University of Medical Sciences	-
Milad Pourgorban	Medicine	Tabriz University of Medical Sciences	miladpourgorban76@gmail.com
Amin Abolhasani	Medicine	Tabriz University of Medical Sciences	aminabolhasani78@gmail.com
Prisa Hossein Nejad	Food Industries-PhD	Islamic Azad University of Tabriz	parisa2020hp@gmail.com
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Alireza Herischi	Biochemistry	Islamic Azad University of Tehran	alireza.herischi@gmail.com
Zahra Saei	Biochemistry	Urmia University of Medical Sciences	zahrasaei74@gmail.com

Conference presentations (International):

1. *QSAR modeling of ATI (angiotensin II) receptor antagonists using a solvation parameter approach, Jafar Soleymani, Elnaz Zoghi, Somaieh Soltani, Abolghasem Jouyban, 12 th Iranian Pharmaceutical Sciences Congress, Zanjan , August 2010.*
2. *Determination of deferiprone in serum, urine and tablet samples using terbium-sensitized luminescence, Jafar Soleymani, Jamshid L. Manzoori, Abolghasem Jouyban, Mohammad Amjadi, Elnaz Tamizi, A. Rezamand, 12 th Iranian Pharmaceutical Sciences Congress, Zanjan , August 2010.*
3. *Solubility of ranitidine HCl in binary and ternary mixtures of PEGs 200 and 400, ethanol and propylene glycol at 25 °C, Jafar Soleymani, Abolghasem Jouyban, 13th*

Iranian Pharmaceutical Sciences Congress, Isfahan, August 2012.

- Solubility of ketoconazol in PEG 200 + Water Mixtures at Various Temperatures, 21th international Iranian Congress of Physiology and Pharmacology, Tabriz, August 2013.*
- Targeting of colon cancer cells using electrochemical methods, Jafar Soleymani, Abolghasem Jouyban, 25th Iranian Analytical Chemistry Congress, Tabriz, September 2018.*

Conference presentations (Nationalwide):

- Application of polymer dots for quantification of methotrexate in biological fluids using fluoreimetric method, Jafar Soleymani, Morteza Molaparast, Pooya Eslampour, Vahid Shafiei-Irannejad, 16th National Congress of Biochemistry and 7th International Congress of Biochemistry and Molecular Biology, Tehran, September 2020.*

Workshops as trainer

- Applications liquid chromatography- mass spectroscopy (LC MS) in pharmaceutical and biomedical analysis, 2 h, 2018.*

Workshops as student

- Introductions of Gas-chromotography and recent novel reported projects, 8h, 2012.*
- High performance liquid chromatography: Introduction and applications, 8h, 2014.*
- High performance liquid chromatography: Theory and experimentall works, 8 h, 2013.*
- 2D Gas-chromotography, 8 h, 2013.*
- Applications of liquid chromatography- mass spectroscopy (LC MS) in pharmaceutical and biomedical analysis, 8 h, 2018.*
- Operational and instrumental course on High performance liquid chromatography and applications, 8h, 2014.*
- Calibration and accreditation of High performance liquid chromatography, 8h, 2017.*
- Calculation of uncertainty in laboratoray efforts, 8h, 2015.*

Other Skills

- Familiar with the following **softwares**:*
 - SPSS
 - Microsoft office
 - Mendeley
 - , ...
 - Endnote
 - GhraphPad
 - Prism
- Familiar with the following **instuments** with effective experimental projects:*
 - Spectrophotometry
 - Fluorimetry
 - Electrochemical technique
 - Cappilary electrophoresis
 - Atomic Abosorption
 - HPLC-UV anf Fl
 - Gas-chromotography
 - Flame photometer
 - LC MS
- Familiar with the following **techniques**:*
 - Cell Culture
 - DAPI test
 - MTT test
 - Flowcytometry
 - Fluorescence imaging