Curriculum Vitae
(updated at May 2021)

Personal data:

Name: Jafar Soleymani
Year of birth: 1984
Gender: Male
Nationality: Iranian (Jolfa-East Azarbayjan)
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Google scholar H-index: 16, i10-index: 25 and Total Citations: 716.
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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 Sciecnes:2016-2019, Tabriz University of Medical Sciencecs, Tabriz, Iran*

Research Interests

- *Synthesis of nanomaterials for biomedical applications*
- *Cancer detection POC devices*
- *Cytosensing*
- *Bio-sensing*
- *Microfludic systems*

Reviewer of:

- *Biosensors and Bioelectronics*
- *Current Analytical Chemistry*
- *Current Nanoscience*
- *Frontiers in Chemistry*
- *Advanced Pharmaceutical Bulletin*

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$)*
- *Elite researcher grant, Novel optical methods for heavy metal: Detection of lead and cadmium, National Institute for Medical Research Developments, Grant no. 973100. (Grant: 275/000/000 Rials, 2500$)*

Publications in International Journals:

[1] Z. Golsanamlou, J. Soleymani, S. Abbaspour, M. Siahi-Shadbad, E. Rahimpour, A. Jouyban, Sensing and bioimaging of lead ions in intracellular cancer cells and biomedical media using amine-functionalized silicon quantum dots fluorescent probe, Spectrochim. Acta Part A Mol. Biomol. Spectrosc. 256 (2021) 119747. https://doi.org/10.1016/j.saa.2021.119747.

[2] M. Ehsani, J. Soleymani, P. Mohammadalizadeh, M. Hasanzadeh, A. Jouyban, M. Khoubnasabjafari, Y. Vaez-Gharamaleki, Low potential detection of doxorubicin using a sensitive electrochemical sensor based on glassy carbon electrode modified with silver nanoparticles-supported poly(chitosan): A new platform in pharmaceutical analysis, Microchem. J. 165 (2021). https://doi.org/10.1016/j.microc.2021.106101.

[3] S. Azizi, M. Darroudi, J. Soleymani, N. Shadjou, Tb2(WO4)3@N-GQDs-FA as an efficient nanocatalyst for the efficient synthesis of β-aminoalcohols in aqueous solution, J. Mol. Liq. 329 (2021) 115555. https://doi.org/10.1016/j.molliq.2021.115555.

[4] S. Dolati, J. Soleymani, S. Kazem Shakouri, A. Mobed, The trends in nanomaterial-based biosensors for detecting critical biomarkers in stroke, Clin. Chim. Acta. 514 (2021) 107–121. https://doi.org/10.1016/j.cca.2020.12.034.

[5] J. Soleymani, V. Shafiei-Irannejad, M.R. Hamblin, M. Hasanzadeh, M.H. Somi, A. Jouyban, Applications of advanced materials in bio-sensing in live cells: Methods and applications, Mater. Sci. Eng. C. 121 (2021). https://doi.org/10.1016/j.msec.2020.111691.

[6] M. Ehsani, J. Soleymani, M. Hasanzadeh, Y. Vaez-Gharamaleki, M. Khoubnasabjafari, A. Jouyban, Sensitive monitoring of doxorubicin in plasma of patients, MDA-MB-231 and 4T1 cell lysates using electroanalysis method, J. Pharm. Biomed. Anal. 192 (2021). https://doi.org/10.1016/j.jpba.2020.113701.

[7] Y. Aftabi, J. Soleymani, A. Jouyban, Efficacy of Analytical Technologies in Metabolomics Studies of the Gastrointestinal Cancers, Crit. Rev. Anal. Chem. (2021). https://doi.org/10.1080/10408347.2021.1901646.
[8] S. Azizi, N. Shadjou, J. Soleymani, CuI/Fe3O4 NPs@Biimidazole IL-KCC-1 as a leach proof nanocatalyst for the synthesis of imidazo[1,2-a]pyridines in aqueous medium, Appl. Organomet. Chem. 35 (2021). https://doi.org/10.1002/aoc.6031.
[9] M. Khoubnasabjafari, M.R.A. Mogaddam, E. Rahimpour, J. Soleymani, A.A. Saei, A. Jouyban, Breathomics: Review of Sample Collection and Analysis, Data Modeling and Clinical Applications, Crit. Rev. Anal. Chem. (2021). https://doi.org/10.1080/10408347.2021.1889961.
[10] S. Azizi, J. Soleymani, N. Shadjou, Synthesis of folic acid functionalized terbium-doped dendritic fibrous nano-silica and Interaction with HEK 293 normal, MDA breast cancer and HT 29 colon cancer cells, J. Mol. Recognit. (2020). https://doi.org/10.1002/jmr.2871.
[11] J. Soleymani, V. Jouyban-Gharamaleki, E. Kenndler, A. Jouyban, Measurement and modeling of sodium chloride solubility in binary mixtures of water + polyethylene glycol 400 at various temperatures, J. Mol. Liq. 316 (2020). https://doi.org/10.1016/j.molliq.2020.113777.
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[14] F. Javaheri-Ghezeldizaj, J. Soleymani, S. Kashanian, J. Ezzati Nazhad Dolatabadi, P. Dehghan, Multi-spectroscopic, thermodynamic and molecular dockimg insights into interaction of bovine serum albumin with calcium lactate, Microchem. J. 154 (2020). https://doi.org/10.1016/j.microc.2019.104580.
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[16] M. Ghaffari, G. Dehghan, B. Baradaran, A. Zarebkohan, B. Mansoori, J. Soleymani, J.E.N. Dolatabadi, M.R. Hamblin, Co-delivery of curcumin and Bcl-2 siRNA by PAMAM dendrimers for enhancement of the therapeutic efficacy in HeLa cancer cells, Colloids Surfaces B Biointerfaces. (2020). https://doi.org/10.1016/j.colsurfb.2019.110762.
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[18] J. Soleymani, M. Hasanzadeh, N. Shadjou, M.H. Somi, A. Jouyban, Spectrofluorimetric cytosensing of colorectal cancer cells using terbium-doped dendritic fibrous nano-silica functionalized by folic acid: A novel optical cytosensor for cancer detection, J. Pharm. Biomed. Anal. 180 (2020) 113077.

https://doi.org/10.1016/j.jpba.2019.113077.
[19] J. Soleymani, M. Hasanzadeh, M.H. Somi, A. Jouyban, Differentiation and targeting of HT 29 cancer cells based on folate bioreceptor using cysteamine functionalized gold nano-leaf, Mater. Sci. Eng. C. 107 (2020) 110320. https://doi.org/10.1016/j.msec.2019.110320.
[20] E.F. Oskuie, S. Azizi, Z. Ghasemi, M. Pirouzmand, B.N. Kojanag, J. Soleymani, Zn/MCM-41-catalyzed unsymmetrical Hantzsch reaction and the evaluation of optical properties and anti-cancer activities of the polyhydroquinoline products, Monatshefte Fur Chemie. 151 (2020). https://doi.org/10.1007/s00706-020-02549-x.
[21] S. Azizi, J. Soleymani, M. Hasanzadeh, KCC-1/Pr-SO3H: an efficient heterogeneous catalyst for green and one-pot synthesis of 2,3-dihydroquinazolin-4(1H)-one, Nanocomposites. 6 (2020) 31–40. https://doi.org/10.1080/20550324.2019.1708634.
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Mahboob, Probing the antigen-antibody interaction towards ultrasensitive recognition of cancer biomarker in adenocarcinoma cell lysates using layer-by-layer assembled silver nano-cubics with porous structure on cysteamine caped GQDs, Microchem. J. 143 (2018) 379–393. https://doi.org/10.1016/j.microc.2018.08.028.
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drugs, Pharm. Sci. 22 (2016). https://doi.org/10.15171/PS.2016.33.
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immunosensing of effective cardiac biomarkers on acute myocardial infarction, TrAC - Trends Anal. Chem. 51 (2013). https://doi.org/10.1016/j.trac.2013.06.010.
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In press or progressing maunscripts

1. *Green synthesize of Folic acid functionalized dendritic fibrous nano-silica and its application as an efficient nanocatalyst for access to direct amidation of carboxylic acids with amines, Submmitted.*
2. *Iron oxide magnetic nanoparticles supported on aminopropyl-functionalized KCC-1 as robust recyclable catalyst for one pot and green synthesis of tetrahydrodipyrazolopyridines, Submmitted.*
3. *Nano KCC-1/Pr-SO3H: An efficient heterogeneous catalyst for green one-pot synthesis of 2,3-dihydroquinazolin-4(1H)-one scaffolds*
4. Zn/MCM-41 Catalyzed unsymmetrical Hantzsch reaction and evaluation of optical properties and anti-cancer activities of the polyhydroquinoline products, *Submmitted.*
5. *The role of nanomaterials on the cancer cells sensing based on folate bioreceptor: Analytical approach, Submmitted.*
6. *Spectrofluorimetric cytosensing of colorectal cancer cells using terbium-doped dendritic fibrous nano-silica functionalized by folic acid, Submmitted.*

7. *Determination and corealtion of the solubility of NaCl in water-PEG 400 binary ixtures at variuos tempereature using laser abaltion method*
8. *Advanced materials in live cell based biosensing*
9. *Detertmination of doxorubicine in biological samples by electrochemical methods*
10. *Determination of abused drugs by capillary electophoresis*
11. *Co-delivery of curcumin and Bcl-2 siRNA by PAMAM dendrimers for enhancement of the therapeutic efficacy in HeLa cancer cells, Submmitted*
12. *Multi-spectroscopic and thermodynamic insight into interaction of bovine serum albumin with calcium lactate, Submmitted.*

Conference presentations (International):

1. *QSAR modeling of AT1 (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 ^{o}C, Jafar Soleymani, Abolghasem Jouyban, 13th Iranian Pharmaceutical Sciences Congress, Isfahan, August 2012.*
4. *Solubility of ketoconazol in PEG 200 + Water Mixtures at Various Temperatures, 21th interrnational Iranian Congress of Physiology and Pharmacology, Tabriz, Agust 2013.*
5. *Targeting of colon cancer cells using electrochemical methods, Jafar Soleymani, Abolghasem Jouyban, 25th Iranian Analytical Chemistry Congress, Tabriz, September 2018.*

Conference presentations (Nationalwide):

1. *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

1. *Applications liqud chromatoghraphy- mass spectroscopy (LC MS) in pharmaceutical and biomedical analysis, 2 h, 2018.*

Workshops as student

2. *Introductions of Gas-chromotoghraphy and recent novel reported projects, 8h, 2012.*
3. *High performance liqud chromatoghraphy: Introduction and applications, 8h, 2014.*
4. *High performance liqud chromatoghraphy: Theory and experimentall works, 8 h, 2013.*
5. *2D Gas-chromotoghraphy, 8 h, 2013.*
6. *Applications of liqud chromatoghraphy- mass spectroscopy (LC MS) in pharmaceutical and biomedical analysis, 8 h, 2018.*
7. *Operational and instrumental course on High performance liqud chromatoghraphy and applications, 8h, 2014.*
8. *Calibration and accreditation of High performance liqud chromatoghraphy, 8h, 2017.*
9. *Calculation of uncertainoity in laboratoray efforts, 8h, 2015.*

Other Skills

1. *Familiar with the following **softwares**:*
   - ☐ SPSS
   - ☐ Microsoft office
   - ☐ Endnote
   - ☐ Mendeley
   - ☐ GhraphPad Prism
   - ☐ , …
2. *Familiar with the following **instuments** with effective experimental projects:*
   - ☐ Spectophotometry
   - ☐ Fluorimetry
   - ☐ Electrochemical technique
   - ☐ Cappilary electrophoresis
   - ☐ Atomic Abosorption
   - ☐ *High performance liqud chromatoghraphy*
   - ☐ *Gas-chromotoghraphy*
   - ☐ *Flame photometer*
   - ☐ *liqud chromatoghraphy-mass spectroscopy (LC MS)*
3. Familiar with the following **techniques***:*
   - ☐ *Cell Culture*
   - ☐ *DAPI test*
   - ☐ *MTT test*
   - ☐ *Flowcytometry*
   - ☐ *Fluorescence imaging*