

In the name of Allah

Curriculum Vitae



Name: Javad Saien

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Date of Birth: 1958 (1337), **E-mail:** saien@basu.ac.ir , jsaien@yahoo.com

Employment:

Professor of Chemical Engineering

at Department of Applied Chemistry, Bu-Ali Sina University, Hamedan, Iran

Education:

Degree	Year	University	Country	Field
B.S.	1984 (1363)	Amir Kabir	Iran	Chemical Eng.
M.Sc.	1991 (1370)	Tehran	Iran	Chemical Eng.
Ph.D.	1996 (1375)	Bradford	U.K.	Chemical Eng.

Teaching at Bu-Ali Sina University:

Name of the course	Postgrad.	Undergrad.	No. of Teaching
1- Industrial chemistry I (Inc. Fluid Flow, Heat Transfer and Mass transfer)		✓	27
2- Industrial chemistry II (Inc. Unit Operations)		✓	25
3- Chemical Industries principles		✓	14
4- Petroleum Refinery Fundamentals	✓	✓	25
5- Physical Chemistry Lab.		✓	16
6- General Chemistry		✓	6
7- Petrochemistry and its Technology	✓		25
8- Control Instrumentation	✓		8
9- Chemical Reaction Engineering	✓		25
10- Chemistry Development from Lab.	✓		15
11- Recent Discussions in Applied Chemistry	✓		8
12- Advanced Chemical Reaction Engineering	✓		7

Research Areas of Interest:

1. Liquid-Liquid extraction, dropwise, impinging
 2. Liquid-Liquid ternary equilibria
 3. Interfacial tension between liquid-liquid phases
 4. Photo-chemical degradation and reduction of pollutants in aqueous media
- Recently we have obtained a research licence from Ministry of Petroleum on “water and wastewater treatment”

Number of Ph.D. Thesis supervised : 5

Number of M.Sc. Thesis supervised: 25

Ph.D. students under supervision: 7

Publications:

Book: Industrial Chemistry II, lecture book, 1393

Papers:

1. **J. Saïen** and M. J. Slater, Scientia Iranica, 1998, 5, 3&4
2. **J. Saïen** and M. J. Slater, Chem. Eng. Journal, 1999, 75, 131.
3. **J. Saïen** and M. J. Slater, 1996, Proc. ISEC 96.
4. **J. Saïen** and M. J. Slater, “Modelling and Simulation of the Rotating Disc Contactor”, 1995, I. Chem. E. Research Event Proc.
5. **J. Saïen**, Journal of Chemical Engineering of Japan, 2002, 35, 7, 604.
6. **J. Saïen**, R. Ardjmand and H. Iloukhani, Phys. Chem. Liquids. 2003, 41, 5, 519-531.
7. **J. Saïen** and R. Rezaei, The 5th Conference of Physical Chemistry, 2002.
8. **J. Saïen** and M. Barani, 7th National Iranian Chemical Engineering Congress, 2002.
9. **J. Saïen** and A. Salimi, J. Chem. Eng. Data, 49, 933-936, 2004
10. **J. Saïen** and M. Barani, Canadian Journal of Chemical Engineering, 2005, 83, 224-231.
11. **J. Saïen** and A. Amisama, Second National Seminar of Chemistry and Environment Protection, 2004.
12. **J. Saïen**, M. Riazikhah and S.N. Ashrafizadeh, Ind. Eng. Chem. Res., 2006, 45, 1434-1440.
13. **J. Saïen** and N. Aghababaei, J. Chem. Eng. Data, 2005, 50, 1099-1102
14. **J. Saïen** and A. Darayi, J. Chem. Eng. of Japan, 2005, 38, 692-700
15. **J. Saïen**, S. A. E. Zonouzian, A. M. Dehkordi, Chem. Eng. Sci., 2006 61, 3942-3950
16. **J. Saïen**, M. Riazikhah and S. N. Ashrafizadeh, journal of Farayand, 2005, 8, VIII-XVIII
17. **J. Saïen** and S. Akbari, J. Chem. Eng. Data, 2006, 51, 1832-1835
18. A. Khazaei, M. A. Zolfigol, Z. Tanbakouchian, M. Shiri, K. Niknam, **J. Saïen**, Catalysis Communication 2006, 8, 917-920
19. **J. Saïen**, A. R. Soleymani, J. Hazardous Materials 2007, 144, 506-512.
20. **J. Saïen** and H. Nejati, J. Hazardous Materials, 2007, 148, 491-495
21. **J. Saïen** and S. Daliri, Ind. Eng. Chem. Res. 2008, 47, 171-175
22. **J. Saïen** and S. Khezrianjoo, J. Hazardous Materials, 2008, 157, 269-276.

23. **J. Saïen** and S. Akbari, *J. Chem. Eng. Data*, 2008, 53, 525-530.
24. S. N. Ashrafizadeh, **J. Saïen**, B. Reza and M. Nasiri, *Ind. Eng. Chem. Res.* 2008, 47, 7242-7249.
25. J. Saïen, M. Asgari, A.R. Soleymani, 11th Iranian Physical Chemistry Seminar, University of Mohaghegh Ardabili, 2008, Ardabil.
26. **J. Saïen**, M. Asgari, A.R. Soleymani, N. Taghavinia, *Chem. Eng. J.* 2009, 151, 295-301.
27. **J. Saïen** and S. Daliri, *Korean J. Chem. Eng.* 2009, 26 (4) 963-965.
28. **J. Saïen** and A.R. Soleymani, *J. Iran. Chem. Soc.* 2009, 6(3) 602-611.
29. **J. Saïen** and F. Ashrafi, *Ind. Eng. Chem. Res.* 2009, 48, 10008-10014.
30. **J. Saïen** , H. Delavari and A.R. Soleymani, *J. Hazardous Materials* 177 2010, 1031-1038.
31. **J. Saïen**, H. Delavari, A.R. Soleymani, The 6th International Chemical Engineering Congress & Exhibition, 2009, Kish Island, Iran
32. **J. Saïen**, S. A. Ojaghi, The 6th International Chemical Engineering Congress & Exhibition, 2009, Kish Island, Iran
33. **J. Saïen**, S. Akbari, *Ind. Eng. Chem. Res.* 2010, 49, 3228-3235.
34. **J. Saïen**, S. Asadabadi, *J. Taiwan Inst. Chem. Eng.* 2010, 41, 295-301.
35. **J. Saïen**, S. A. Ojaghi, *J. Ind. Eng. Chem.* 2010, 16, 1001-1005..
36. **J. Saïen**, S. A. Ojaghi, A. M. Dehkordi, *J. Chem. Eng. Technol.* 2010, 33, 1003-1010.
37. **J. Saïen**, S. Asadabdi, 13th Iranian Physical Chemistry Seminar, 1389, Shiraz, Iran.
38. **J. Saïen**, S. Asadabadi, *J. Chem. Eng. Data*, 2010, 55, 3817-3824.
39. **J. Saïen**, Z. Ojaghloo, A.R. Soleymani, M.H. Rasoulifard, *Chem. Eng. J.* 2011, 167, 172-182.
40. A. Haghdoost, A. M. Dehkordi, M. Darbandi, M. Shahлами and **J. Saïen**. *Ind. Eng. Chem. Res.* 2011, 50, 4608-4617.
41. A.R. Soleymani, **J. Saïen**, H. Bayat, *Chem. Eng. J.* 2011, 170, 29-35.
42. **J. Saïen**, S. Rezabeigy, *Ind. Eng. Chem. Res.* 2011,50, 6925-6932.
43. **J. Saïen**, M. Norouzi, *J. Chem. Eng. Data*, 2011, 56 (6) 2892-2895.
44. **J. Saïen**, S. Rezabeigy, M. Behroozi, 14th Iranian Phys. Chem. Conference, Kish, February, 2011, 2360-2362.
45. **J. Saïen**, S. Asadabadi, *Fluid Phase Equilibria*, 2011, 307, 16-23.
46. **J. Saïen**, A.R. Soleymani, J.H. Sun, *Desalination*, 2011, 279, 298-305.
47. **J. Saïen**, F. Shahrezaei, *Int. J. Photoenergy*, 2012, ID 703074
48. **J. Saïen**, V. Moradi, A.R. Soleymani, *Chem. Eng. J.* 2012, 183, 135-140.
49. **J. Saïen**, A. R. Soleymani, H. Bayat, *Desal. Water Treat.* 2012, 40, 174-182
50. **J. Saïen**, H. Bamdadi, *Ind. Eng. Chem. Res.* 2012, 51, 5157-5166.
51. **J. Saïen**, M. Mishi, *J. Chem. Thermodyn.* 2012, 54, 254-260.
52. **J. Saïen**, A.R. Soleymani, *J. Ind. Eng. Chem.* 2012, 18, 1683-1688.
53. **J. Saïen**, V. Moradi, *J. Ind. Eng. Chem.* 2012, 18, 1293-1300.
54. **J. Saïen**, S. Daliri, *Ind. Eng. Chem. Res.* 2012, 51, 7364-7372.
55. **J. Saïen**, S. Daliri, M. Norouzi, *J. Chem. Eng. Data* 2012, 57, 2553-2559.
56. **J. Saïen**, M. Mozafarvandi, S. Daliri, M. Norouzi, *J. Chem. Thermodyn.* 2012, 57, 76-81.
57. **J. Saïen**, A. Raeisi, A.R. Soleymani, M. Norouzi, *Advanc. Environ.Res.* 2012, 1, 289-304.
58. **J. Saïen**, M. Norouzi, S. Daliri, *J. Ind. Eng. Chem.* 2013, 19, 220-226.
59. **J. Saïen**, M. Norouzi, H. Dehghani, *Fluid Phase Equilib.* 2013, 338, 224-231.

60. **J. Saïen**, F. Moghaddamnia, H. Bamdadi, *J. Chem. Eng. Data*. 2013, 58, 436-440.
61. S. Asadabadi, **J. Saïen**, V. Khakizade, *J. Chem. Thermodyn.* 2012, 57, 76-81.
62. **J. Saïen**, F. Moghaddamnia, M. Mishi, *Koran J. Chem. Eng.* 2013, 30, 1125-1131.
63. **J. Saïen**, S. Asadabadi, *Colloid. Surf. A: Phys. Eng. Asp.* 2013, 431, 34-41.
64. A. Khazaei, S. Saednia, **J. Saïen**, M.K. Rostami, M. Sadeghpour, M.K. Borazjani, F. Abbasi, *J. Braz. Chem. Soc.* 2013 24(7) 1109-1115.
65. **J. Saïen**, S. Daliri, *J. Ind. Eng. Chem.* 2014, 20, 238-244.
66. A. Khazaei, S. Saednia, **J. Saïen**, M.K. Borazjani, S. Rahmati, A. Hahempour-Zavieh, F. Abbasi, *Acta. Chem. Slov.* 2013, 60, 724-731.
67. A. Khazaei, S. Saednia, M.K. Borazjani, **J. Saïen**, S. Rahmati, M. Kiani, A. Afkhami, *Supramolecular Chem.* 2014, 26, 88-93.
68. **J. Saïen**, S. Asadabadi, *Colloid. Surf. A: Phys. Eng. Asp.* 2014, 444, 138-143.
69. **J. Saïen**, S. Daliri, *J. Taiwan Inst. Chem. Eng.* 2014, 45, 808-814.
70. **J. Saïen**, A. Azizi, A.R. Soleymani, *J. Iran Chem. Soc.* 2014, 11, 1439-1448.
71. **J. Saïen**, M. Fattahi, M. Mozafarvandi, *J. Chem. Thermodyn.* 2014, 74, 238-246.
72. **J. Saïen**, A. Rezvanipour, S. Asadabadi, *J. Chem. Eng. Data*, 2014, 59, 1835-1842.
73. **J. Saïen**, A. Azizi, A.R. Soleymani, *Sep. Purif. Technol.* 2014, 134, 187-195.
74. **J. Saïen**, A. Azizi, A.R. Soleymani, *Iran. J. Toxicol.* 2014, 26, 1136-1144.
75. **J. Saïen**, S. Asadabadi, *Fluid Phase Equilib.* 2015, 386, 134-139.
76. **J. Saïen**, H. Bamdadi, S. Daliri, *J. Ind. Eng. Chem.* 2015, 21, 1152-1159.
77. A.R. Soleymani, **J. Saïen**, S. Chin, H.A. Le, E. Park, *J. Jurng, Process Saf. Environ. Prot.* 2015, 94, 307-314.
78. **J. Saïen**, A. Azizi, *Process Saf. Environ. Prot.* 2015, 95, 114-125.
79. **J. Saïen**, M. Zardoshti, *Korean J. Chem. Eng.* 2015, 32, 2311-2318.
80. **J. Saïen**, H. Asgari, *Iranian J. Chem. Eng.* 2015, 11, 50-63.
81. **J. Saïen**, M. Osali, *Desal. Water Treat.* 2015, 489, 36-45.
82. **J. Saïen**, A. Azizi, *Environ. Eng. Manag. J.*, 2015, in press.
83. **J. Saïen**, M. Kharazi, S. Asadabadi, *Iranian J. Chem. Eng.* 2015, 59-74.
84. **J. Saïen**, M. Mohammadi Sarab Badiëh, M. Norozi, S. Salehzadeh, *J. Chem. Thermodyn.* 2015, 91, 404-413.
85. **J. Saïen**, M. Kharazi, S. Asadabadi, *J. Mol. Liquid.* 2015, 212, 58-62.
86. S. Asadabadi, **J. Saïen**, *Colloid. Surf. A: Phys. Eng. Asp.* 2016, 489, 36-45.
87. **J. Saïen**, Z. Mesgari, *J. Mol. Cat. A : Chem.* 2016, 414, 108-115.
88. **J. Saïen**, M. Kharazi, *J. Mol. Liquid.* 2016, 220, 136-141.
89. **J. Saïen**, M. Mohammadi Sarab Badiëh, M. Norozi, *Sep. Purif. Technol.*, 2016, 168, 199-206.
90. **J. Saïen**, F. Ghamari, A. Azizi, *J. Iran. Chem. Soc.* 2016, 13, 2247-2255.
91. **J. Saïen**, M. Bahrami, *J. Mol. Liquid.* 2016, 224, 158-164.

Conferences attended so far with a lecture or presentation:

- International Solvent Extraction Conference (two times)
- International Congress of Chemical and Process Engineering (two times)
- International Chemical Engineering Congress and Exhibition (several times)
- National Congress of Applied Chemistry
- National Congress of Physical Chemistry

Completed Research Projects:

1. Design and manufacturing of solvent extraction columns (RDC, Kuhni, packed ...) and study the mass transfer coefficient for systems with different solvents.
2. Design and manufacturing of a photo-catalytic spouted reactor to study the photodegradation of pollutants in water and to obtain the reaction optimum operating conditions.
3. Optimisation of wastewater treatment utilities at the Khosh-Noosh beverage factory.
4. Waste-water treatment of Hamadan industries under photocatalytic degradation.
5. Design and manufacturing a jet impinging stream extractor for liquid-liquid extraction.
6. Investigation on interfacial tension of liquid-liquid systems.
7. Investigation on photocatalytic degradation of Arak and Kermanshah Petroleum Refinery wastewater.
8. Application of nano photocatalyst particles in degeradation of contaminants in Kermanshah petroleum refinery.
9. Investigating on the influence of surfactants and ionic strength on the liquid-liquid extraction with two impinging streams system.
10. Interfacial tension and interaction influence of Triton X-100 and CTAB surfactants for toluene and water.
11. Photocatalytic degradation of real sewage under different pH.
12. Interfacial tension between toluene + water containing different ionic liquids.
13. The effect of imidazeliium based ionic liquids on the interfacial tension of toluene-water including temperature, pH, kind and concentration of different electrolytes.

Current Research Projects:

14. An efficient ionic liquid as green solvent applications in liquid-liquid extraction.
15. Using solar irradiation in wastewater treatment

Professional Memberships:

- Iranian Association of Chemical Engineering
- Iranian Chemical Society (Applied Chemistry Branch)

University executive and academic positions:

1. Dean of the university library and documents center
2. Dean of chemistry faculty
3. Head of applied chemistry department
4. Member of university scientific distinguish committee