

# **CURRICULUM VITAE**

**AHMAD SHAABANI**



## **I. PERSONAL RECORD**

Name: Ahmad Shaabani  
Marital status: Married 2 children  
Office address: Department of Chemistry  
Faculty of Science  
Shahid Beheshti University  
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Tehran, IRAN  
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## **II. Appointment**

1994	Assistant Professor
1999	Associate Professor
2003	Professor

## **III. Education**

### ***B.Sc***

*National University of Iran, (Shahid Beheshti Univ.), Tehran, Iran(1987).*

### **M.Sc**

Institute of Chemistry, Babolsar, Iran(**Supervisor Dr. M. Ghalamkar-**

**Moazzam)** (1989).

**Ph.D.**

Tarbiat Modarres University, Tehran, Iran (**Supervisor Prof. Issa Yavari**) (1994).

The title of my Ph.D thesis: [1+4] Cycloaddition Reactions of Isocyanides with Electron Deficient  $\alpha,\beta$ -Unsaturated Carbonyl Compounds

**Sabbatical Leave (Research Associate)**

University of Regina, SK, Regina, Canada, 2000-2001, (**Prof. Donald G. Lee**).

Title: Introduction of novel methods in the oxidation of organic compounds

**IV. Postgraduate Teaching Experience, Research Student Supervised**

1	Mr. M. Ameri	M.Sc	1997
2	Mr. F. Farrokzad	M.Sc	1997
3	Mrs. E. Karimi	M.Sc	1997
4	Mr. M. Zare	M.Sc	1998
5	Mrs. F. Sadeghi Nejat	M.Sc	1998
6	Mr. S. Ajabi	M.Sc	1998
7	Mr. M. B. Teimouri	M.Sc	1999
8	Mr. A. Bazgir	M.Sc	1999
9	Mr. A.R. Karimi,	M. Sc	2000
10	Mrs. N. Sharifi	M.Sc	2000
11	Mr. H. M. Safaei	Ph.D.	2001
12	Mr. M. B. Teimouri	Ph.D.	2004
13	Mr. A. Bazgir	Ph.D.	2004
14	Mr. K. Solaimani	M.Sc	2003
15	Mrs. F. Teimouri	M.Sc	2003
16	Mr. P. Mirzaei	M.Sc	2004
17	Mrs. S. Arab-Ameri	M.Sc	2004
18	Mrs. S. Naderi	M.Sc	2005
19	Mrs. M. Sharifi	M.Sc	2005
20	Mrs. S. Samadi	M.Sc	2005
21	Mr. R. Ghadari	M.Sc	2005
22	Mr. A.H. Rezayan	M.Sc	2005
23	Mrs. M. Darvishi	M.Sc	2006
24	Mrs. Z. Badri	M.Sc	2006
25	Mr. E. Soleimani	Ph. D.	Current
26	Mr. Rahmati	Ph. D.	Current

27	Mr. A.H. Rezayan	Ph. D.	Current
28	Mr. A. Maleki	Ph. D.	Current
29	Mr. J. Moghimi	M.Sc.	2006
30	Mr. E. Farhangi	M.Sc.	2006
31	Mr. A. Sarvari	M.Sc.	Current
32	Mrs. Heidari	M.Sc.	Current
33	Mrs. Rezazadeh	M.Sc.	Current
34	Mrs Behnam	M.Sc.	Current
36	Mr. Mofakham	M.Sc.	Current
37	Mr. A. Sarvari	Ph. D.	Current
38	Mrs Seyed Hamzeh	Ph. D.	Current

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## **V. Awards**

<b>Distinguished Professor of Shahid Beheshti University</b>	<b>2002</b>
<b>Distinguished Professor of Iran Universities</b>	<b>2003</b>
<b>Distinguished Professor of Shahid Beheshti University</b>	<b>2006</b>
<b>Most Cited Paper 2003-2006 Award; Tetrahedron Lett.</b>	<b>2006</b>
<b><u>(Elsivier Ltd, Oxford, UK)</u></b>	
<b><u>Distinguished Professor of Shahid Beheshti University</u></b>	<b><u>2007</u></b>

## **VI. Teaching**

**Undergraduate Courses:** Organic Chemistry, Physical Organic Chemistry, and Application of Spectroscopy in Organic Chemistry.

**Graduate Courses:** Physical Organic Chemistry, Application of NMR Spectroscopy in Organic Chemistry, and Reactive Intermediates.

## VII. Participation in Training Programs

- 1- "Group Training Program of UNIDO on the Utilization of Medicinal and Aromatic Plants in Pharmaceutical and Related Industries", 9 September-2 October, 1996, Eskisehir, Turkey.
- 2- "HIJ-COMSATS Workshop on the Use of the Spectroscopic Techniques in Structural Organic Chemistry", Feb. 14-21, 2000, Karachi, Pakistan.

## VIII. Publications

### 1990

- [1]M. Ghalamkar-Moazzam and A. **Shaabani**, "ADDITION OF ETHYLALCOHOL TO TRIETHYL PROPARGYL AMMONIUM BROMIDE", *Iran. J. Chem. Chem. Eng.*, 13, 53 (1990).
- [2]M. Ghalamkar-Moazzam and A. **Shaabani**, "SYNTHESIS OF TRIETHYL PROPARGYL AMMONIUM BROMIDE", *Iran. J. Chem. Chem. Eng.*, 13, 57 (1990).

### 1994

- [3]I. Yavari, A. **Shaabani**, and F. Aghajani, "CONFORMATIONAL ENERGY SURFACE OF CYCLONONA-1,2,5,6-TETRAENE", *J. Chem. Research (S)*, 110 (1994).
- [4]I. Yavari and A. **Shaabani**, "OXIDATION OF PRIMARY AND SECONDARY ALCOHOLS TO CARBONYL COMPOUNDS BY HEXAMETHYLENETETRAMINE BROMINE COMPLEX", *J. Chem. Research*

(S), 274 (1994).

[5]I. Yavari, A. **Shaabani**, Mir F. Mossavi and D. Nori-Shargh “CONFORMATIONS OF Z,Z-CYCLOHEPTA-1,3-DIENE AND Z,Z-CYCLOHEPTA-1,4-DIENE”, *J. Chem. Research(S)*, 272 (1994).

[6]I. Yavari, A. **Shaabani**, and S. Asghari, “ DYNAMICS OF CYCLIC ALLENES. ITERATIVE MOLECULAR MECHANICS CALCULATIONS OF 1,2,5,6-CYCLODECATETRAENE”, *J. Mol. Struct., ( Theochem )* 309, 53 (1994).

[7]A. **Shaabani**, I. Yavari, and D. Nori-Shargh, “CONFIGURATIONAL PROPERTIES OF SULFURDIIMIDE, METHYL SULFURDIIMIDE, AND DIMETHYL SULFURDIIMIDE”, *J. Mol. Struct., ( Theochem )* 310, 321 (1994).

## 1996

[8]I. Yavari, A. **Shaabani**, and H. Soliemani, “EFFECT OF INTETRNAL HYDROGEN BONDING ON BASE CATALYZED N-H PROTON- EXCHANGE REACTIONS OF ISOMERIC INAMINES”, *Magn. Reson. Chem.*, 34, 1003 (1996).

## 1997

[9]I. Yavari and A. **Shaabani**, “THE REACTION BETWEEN ALKYL ISOCYANIDES AND 3-BENZYLIDENE- 2,4-PENTANEDIONE. A CONVENIENT SYNTHETIC ROUTE TO DENSELY FUNCTIONALIZED FURANS”, *Monat. Chem.*, 128, 697 (1997).

[10] I. Yavari, R. Baharfar, D. Nori-Shargh and A. **Shaabani** “DYNAMIC OF CYCLIC ALLENES. CONFORMATIONAL ENERGY SURFACE OF CYCLODECA- 1,2,4,5-TETRAENE ”, *J. ChemResearch(S )*, 162 (1997).

- [11] I. Yavari and **A. Shaabani**, "REACTION BETWEEN ALKYL ISOCYANIDES AND 1,1,1,5,5,5-HEXAFLUOROPENTANE-2,4-DIONE", *J. Fluorine Chem.*, 86, 77(1997).
- [12] **A. Shaabani** and F. Farrokzad, "[1+4] CYCLOADDITION OF ISOCYANIDES WITH 3-(1-HYDROXY ETHYLIDENE)-2,4-PENTANEDIONE. A COVENIENT SYNTHESIS OF IMINOLACTONES", *J. Chem. Research(S)*, 344(1997).
- [13] H. Tavallali, **A. Shaabani** and A. Massoumi, "SPECTROPHOTOMETRIC STUDY OF CHARGE TRANSFER COMPLEX OF IODINE WITH EXAMETHYLENETETRAMINE", *International J. Chem.*, 8, 63(1997).

### 1998

- [14] **A. Shaabani** and M. Ameri , "OXIDATION OF BENZYLIC AND SECONDARY ALCOHOLS TO CARBONYL COMPOUNDS BY NaBrO<sub>3</sub>/NH<sub>4</sub>Cl REAGENT IN AQUEOUS MEDIUM", *J. Chem. Research (S)*, 100(1998).
- [15] M. Zahedi, **A. Shaabani**, and N. Safari, "SEMIEMPIRICAL MOLECULAR ORBITAL CALCULATIONS OF BILIVERDINE: STABILITY STUDY OF VARIOUS ISOMERS AND CONFORMATION ANALYSIS", *J. Mol. Struct. (Theochem)*, 452, 125(1998).
- [16] **A. Shaabani**, M. Ameri, and H. R. Bijanzadeh, "SYNTHESIS AND TAUTOMERIZATION STUDY OF 2-NITRO-1-NITROSOETHYL-BENZENE BY <sup>1</sup>H NMR IN ACETONE", *J. Chem. Research(S)*, 572(1998).
- [17] **A. Shaabani**, and F. Sadeghi Nejat "VINYLTRIPHENYLPHOSPHONIUM SALT MEDIATED ONE-POT SYNTHESIS OF DIALKYL-5-FORMYL-2H-PYRAN-2,3-DICARBOXYLATE", *J. Chem. Research(S)*, 584(1998).

- [18] **A. Shaabani**, "SYNTHESIS OF METALLOPHTHALOCYANINES UNDER SOLVENT-FREE CONDITIONS USING MICROWAVE IRRADIATION", *J. Chem. Research(S)*, 672(1998).

### 1999

- [19] **A. Shaabani** and S. Ajabi, F. Farrokzad and H. R. Bijanzadeh "[1+4] CYCLOADDITION OF ISOCYANIDES WITH 2-ACETYL-1,4-BENZOQUINONE. A CONVENIENT SYNTHESIS OF ISOBEZOFURANE-4,7-QUINONES", *J. Chem. Research(S)*, 582 (1999).
- [20] **Ahmad Shaabani**, Ayoob Bazgir, F. Bahadoran and N. Safari "SYNTHESIS OF METALLOPHTHALOCYANINE UNDER SOLVENT-FREE AND USING MICROWAVE IRRADIATION", *Iran. J. Chem. Chem. Eng.*, 18, 104 (1999).

### 2000

- [21] **A. Shaabani**, M. B. Teimouri, I. Yavari, H. Norouzi Arasi, H. R. Bijanzadeh, "1,4-DIIONIC ORGANOPHOSPHORUS COMPOUNDS STEREOSELECTIVE SYNTHESIS OF DIALKYL 2-(1,1,1,5,5,5-HEXAFLUORO-2,4-DIOXO-PENTANE-3-YL-3YIDE)-3-TRIPHENYLPHOSPHONIUBUTANE-1,4-DIOATES", *J. Fluorine Chem.*, 103, 55 (2000).
- [22] **A. Shaabani**, H. R. Safaei and M. B. Teimouri, "A SIMPLE AND EFFICIENT PROCEDURE FOR OXIDATION OF SULFIDES TO SULFOXIDES BY HEXAMETHYLENE-BROMINE (HMTAB)", *Synth. Commun.*, 30, 265 (2000).
- [23] **A. Shaabani**, H. R. Safaei and A. Bazgir, "OXIDATION OF SULFIDES TO SULFOXIDES BY NaBrO<sub>3</sub>-NH<sub>4</sub>Cl REAGENT IN AQUEOUS ACETONITRILE", *Iran. J. Chem. Chem. Eng.*, 19, 47 (2000).
- [24] **A. Shaabani**, M. Zahedi, "SEMIEMPIRICAL MOLECULAR ORBITAL

CALCULATION OF AZOBENZENE: STABILITY STUDY OF ISOMERS AND MECHANISM OF E/Z ISOMERIZATION”, *J. Mol. Struct. (Theochem)* 506, 257 (2000).

[25] **Ahmad Shaabani** and Hamid Reza Safaei “Wet Silica Gel Supported Potassium Dichromate a Simple Method for Oxidation of Benzylic and Secondary Alcohols in Solvent less System”, *International J. Chem.*, 10, 67 (2000).

[26] **A Shaabani**, F. Sadeghi Nejat and I. Yavari “APPLICATION OF PROTON NMR SPECTROSCOPY TO THE STUDY OF THE RATES OF ACID-CATALYSED NH PROTON EXCHANGE OF ENAMINONES” *Iran. J. Chem. Eng.*, 19,29 (2000).

## 2001

[27] **A. Shaabani**, A.R. Karimi, “OXIDATION DEPROTECTION OF TRIMETHYLSILYL ETHERS TO CARBONYL COMPOUNDS BY NaBrO<sub>3</sub>-NH<sub>4</sub>Cl REAGENT IN AQUEOUS ACETONITRILE”, *Synth. Commun.*, 31, 759 (2001).

[28] **Ahmad Shaabani**, Shahram Ajabi “NaBrO<sub>3</sub>-FeCl<sub>3</sub> AS A NEW REAGENT FOR OXIDATION OF BENZYLIC AND SECONDARY ALCOHOLS TO CARBONYL COMPOUNDS”, *Indian J. Chem. (Sec. B)*, 40B, 148 (2001).

[29] **Ahmad Shaabani**, H.M. Safaei, K. Hemyari and A. Moghimi “ONE-POT SYNTHESIS AND DYNAMIC STUDIES OF STABLE DIALKYL-2-(1H-ISOINDOL-1,3(2H)-DIONE-2-YL)-3-(TRIPHENYLPHOSPHORANYLIDENE) BUTANDIOATEYLIDES”, *J. Chem. Research(S)*, 192 (2001).

[30] **A. Shaabani**, F. Bahadoran and N. Safari “SYNTHESIS OF PHTHALOCYANINE DERIVATIVES OF THE Ru, Rh, Pt AND Pd METALS UNDERSOLVENT-FREE CONDITIONS USING MICROWAVE

IRRADIATION”, *Indian J. Chem.*, 40A, 19(2001) .

[31] **A. Shaabani** and D.G. Lee, “SOLVENT FREE PERMANGANATE OXIDATIONS”, *Tetrahedron Lett.*, 42, 5833 (2001).

[32] **A. Shaabani**, H.R. Safaei and H.R. Bijanzadeh, “REACTION OF 2-AMINOBENZIMIDAZOL: A SIMPLE ONE-POT SYNTHESIS OF STABLE HETEROCYCLIC PHOSPHORUS YLIDES”, *Synth. Commun.*, 31, 2644 (2001).

[33] **Ahmad Shaabani**, Issa Yavari, Ayoob Bazgir, Mohammad Bagher Teimouri and Hamid Reza Bijanzadeh, “NEW AND EFFICIENT SYNTHESIS OF DIALKYL 2-[1-P-NITROPHENYL-2-ALKYLAMINO)-2XOETHYL]MALONATES”, *Tetrahedron*, 57, 1375 (2001).

[34] M. Zahedi, **A. Shaabani** and M.R. Shariati Zadeh “SEMIEMPIRICAL MOLECULAR ORBITAL CALCULATIONS OF CONFIGURATIONAL PROPERTIES OF DIHALOGENATED SULFUR DIIMIDES”, *Indian J. Chem.*, 40B, 1267(2001).

## 2002

[35] **A. Shaabani**, A. Bazgir and M. Abdoli, “CONVERSION OF ALKYL BENZENES TO CARBONYL COMPOUNDS BY  $\text{NaBrO}_3$  IN THE PRESENCE OF  $\text{NH}_4\text{Cl}$  AND  $(\text{Bu})_4\text{NHSO}_4$ ”, *Synth. Commun.*, 32, 675 (2002).

[36] **A. Shaabani**, A. Bazgir, M.B. Teimouri and H.R. Bijanzadeh and “INTRODUCTION OF A NOVEL REACTION OF TRIACETYL METHANE: ONE-POT SYNTHESIS OF DIALKYL- 2- (3, 1-HYDROXYETHYLIDENE- 2,4-PENTANEDIONE-3-YL)-3-(TRIPHENYLPHOSPHORANYLIDENE)- BUTANEDIOATE”, *Phosphorus, Sulfur, and Silicon*, 1, 177 (2002).

[37] **A. Shaabani**, M.B. Teimouri and A. Bazgir “HEXAMETHYLENETETRAMINE

BROMINE COMPLEX ON WET SILICA: OXIDATION OF ALCOHOLS AND SULFIDES”, *Indian J. Chem.*, 41B, 1975 (2002).

[38] **A. Shaabani**, A.R. Karimi and A.R. Alamshahi “SELECTIVE REMOVAL OF SILYL PROTECTING GROUPS FROM HYDROXYL FUNCTIONS WITH AMMONIUM CHLORIDE IN AQUEOUS ACETONITRILE”, *Indian J. Chem.*, 41B, 1972(2002).

[39] **A. Shaabani**, A. Bazgir, F. Teimouri and D.G. Lee “SELECTIVE OXIDATION OF ALKYLARENES IN DRY MEDIA WITH POTASSIUM PERMANGANATE SUPPORTED ON MONTMORILLONITE K10”, *Tetrahedron Lett.*, 43, 5165 (2002).

[40] **Ahmad Shaabani**, Ayoob Bazgir, Kamal Soleimani and Hamid Reza Bijanzadeh REACTION BETWEEN ALKYL ISOCYANIDES AND 1,1,1,5,5,5-EXAFLUOROPENTANE-2,4- DIONE IN THE PRESENCE OF WATER: ONE- POT SYNTHESIS OF HIGHLY FLUORINATED - DIHYDROXY- -YDROXY AMIDES”, *J. Fluorine Chem.*, 116, 93 (2002).

[41] **Ahmad Shaabani** and Mohammad Bagher Teimouri, “THE EACTION OF ALKYL ISOCYANIDES AND BENZYLIDENE MELDRUM’S ACID DERIVATIVES IN THE PRESENCE OF WATER: ONE- POT SYNTHESIS OF 4- ( ALKYLAMINO)-3-(ARYL)-4- OXOBUTANOIC ACIDS” *J. Chem. Research(S)*, 433 (2002).

[42] **A. Shaabani**, M. B. Teimouri and H. R. Bijanzadeh “ONE-POT THREE COMPONENT CONDENSATION REACTION IN WATER: AN EFFICIENT AND IMPROVED PROCEDURE FOR THE SYNTHESIS OF FURO[2,3-d]PYRIMIDINE-2,4-(1H,3H)-DIONES”, *Tetrahedron Lett.*, 43, 9151(2002).

[43] **Ahmad Shaabani**, Mohammad Bagher Teimouri and Hamid Reza

Bijanzadeh, "THE REACTION OF ALKYL ISOCYANIDES AND DIALKYLACETYLENE DICARBOXYLATE WITH PHTHALIC ANHYDRIDE DERIVATIVES: A NOVEL SYNTHESIS OF GAMA-SPIROIMINOLACTONES", *J. Chem. Research(S)*, 38(2002).

### 2003

- [44] **Ahmad Shaabani**, Ayoob Bazgir and Fatemeh Teimouri, "AMMONIUM CHLORIDE CATALYZED ONE-POT SYNTHESIS OF 3,4-DIHYDROPYRIMIDINE-2-(1H)-ONES UNDER SOLVENT-FREE CONDITIONS" *Tetrahedron Lett.*, 44, 857 (2003).
- [45] **A. Shaabani**, N. Safari, A. Bazgir and F. Bahadoran "SYNTHESIS OF THE TETRASULFO- AND TETRANITRO- PHTHALOCYANINE COMPLEXES UNDER SOLVENT-FREE AND REFLUX CONDITIONS USING MICROWAVE IRRADIATION", *Synth. Commun.*, 33, 1717 (2003).
- [46] **A. Shaabani**, F. Teimouri and D.G. Lee "ION EXCHANGE CATALYSIS IN OXIDATION OF ORGANIC COMPOUNDS WITH  $KMnO_4$ ", *Synth. Commun.*, 33, 1057 (2003).
- [47] **A. Shaabani**, and D.G. Lee, "SOLVENT- FREE ION EXCHANGE CATALYSIS IN THE OXIDATION OF ORGANIC COMPOUNDS WITH SODIUM BROMATE", *Synth. Commun.*, 33, 1255 (2003).
- [48] **A. Shaabani** and D.G. Lee, "Selective Oxidation of Sulfides under Solvent free Conditions", *Sulfur Letters*, 26, 43 (2003).
- [49] **A. Shaabani** and D.G. Lee, "CERIUM(III) BROMATES AS A NEW REAGENT IN OXIDATION OF ORGANIC COMPOUNDS", *Synth. Commun.*, 33, 1845 (2003).

- [50] **Ahmad Shaabani**, Ayoob Bazgir, Kamal Soleimani and Peyman Salehi, "Solvent Effects in the Oxidation of Sulfides with  $\text{NaBrO}_3/\text{Mg}(\text{HSO}_4)_2$ ", *Synth. Commun.*, 33, 2935 (2003).
- [51] **A. Shaabani** and D. G. Lee, "Solvent free oxidation using manganese dioxide, barium manganate and potassium permanganate", *Recent Res. Devel. Org. Chem.*, 7, 85 (2003).
- [52] **Ahmad Shaabani**, Mohammad Bagher Teimouri, Ayoob Bazgir and Hamid Reza Bijanzadeh, "Introducing a Novel class of four-component reactions", *Mol. Div.*, 6, 199 (2003).
- [53] F. Sefidkon and **A. Shaabani**, "ANALYSIS OF THE OIL OF HIPPOMARATHRUM MICROCARPUM(M. B.) B. FEDTSCH FROM IRAN", *J. Essential Research*, 15, 261 (2003).
- [54] **Ahmad Shaabani**, Mohammad Bagher Teimouri and Hamid Reza Bijanzadeh, "Novel dispiro iminodioxolane derivatives: synthesis by reaction of isocyanides with ninhydrin", *J. Chem. Research(S)*, 578 (2003).
- [55] **Ahmad Shaabani**, Mohammad Bagher Teimouri, "Microwave assisted rapid synthesis of furan annulated heterocycles", *J. Chem. Research(S)*, 732 (2003).
- [56] **Ahmad Shaabani**, Mohammad Bagher Teimouri, Peiman Mirzaei and Hamid Reza Bijanzadeh "The reaction of isocyanides and dialkyl acetylenedicarboxylate with isatoic anhydride: one pot synthesis of highly functionalized ketenimines" *J. Chem. Research(S)*, 82 (2003).

## 2004

- [57] **Ahmad Shaabani**, Ayoob Bazgir and Hamid Reza Bijanzadeh, "A reexamination

of Biginelli like multicomponent condensation reaction: one-pot regioselective synthesis of spiro heterobicyclic rings", *Mol. Div.*, 8, 141 (2004).

- [58] **Ahmad Shaabani**, Mohammad Bagher Teimouri and Hamid Reza Bijanzadeh, "A novel three-component tetrahydrobenzofuranes synthesis" *Monatsh. Chem.*, 135, 441 (2004).
- [59] **A. Shaabani**, A. Bazgir and D.G. Lee, "OXIDATION OF ORGANIC COMPOUNDS BY POTASSIUM PERMANGANATE SUPPORTED ON MONMORILLONITE K10, S" *ynth. Commun.*, 34, 3595 (2004).
- [60] **A. Shaabani**, A. Bazgir, F. Tavasoli-Rad, H.R. Bijanzadeh and F. Razmara, "Reaction between nitrogen-containing heterocycles and dialkyl acetylenedicarboxylate with strong C-H acid: Synthesis of stable highly functionalized 1,4- diionic nitrogen betaines", *J. Chem. Research(S)*, 133 (2004).
- [61] **Ahmmad Shaabani**, Kamal Soleimani and Ayoob Bazgir, "Silica Sulfuric Acid Catalysis the Oxidation of Organic Compounds with Sodium Bromate", *Synth. Commun.*, 34, 3306 (2004).
- [62] **Ahmad Shaabani**, Mohammad Bagher Teimouri and Hamid Reza Bijanzadeh, "One-pot three-component condensation reactions in water: An efficient and improved procedure for the synthesis of furan annulated heterocycles", *Monatsh. Chem.*, 135, 586 (2004).
- [63] **Ahmad Shaabani** and Ayoob Bazgir, "Microwave assisted efficient of spiro-fused heterocycles under solvent free conditions", *Tetrahedron Lett.*, 45, 2575 (2004).
- [64] F. Sefidkon and **A. Shaabani** "Essential Oil Composition of *Npeta meyeri Benth.* From Iran", *Flav. Frag. J.*, 19, 236 (2004).

- [65] **A. Shaabani** P. Mirzaei and D.G. Lee “The beneficial effect of manganese dioxide on the oxidation of organic compounds by potassium permanganate”, *Cat. Lett.* 97, 119 (2004).
- [66] **Ahmad Shaabani**, Mohammad Bagher Teimouri and S. Arabameri, “A Novel Pseudo Four-Component Reaction: Unexpected Formation of Densely Functionalized Pyrroles”, *Tetrahedron Lett.*, 45, 8409 (2004).
- [67] **A. Shaabani** P. Mirzaei, S. Naderi and D.G. Lee, “Green Oxidations: The use of potassium permanganate supported manganese dioxide”, *Tetrahedron*, 60, 11415 (2004).
- [68] **Ahmad Shaabani**, Mohammad Bagher Teimouri and Hamid Reza Bijanzadeh “An Efficient one-Pot Synthesis of Triamides and Amidodiester”, *Russ. J. Org. Chem.*, 40, 976(2004).
- [69] **Ahmad Shaabani**, Ayoob Bazgir, S. Arabameri, “Tetrabutyl ammonium hydrogen sulfate: An efficient catalyst for the synthesis of 3,4-dihydropyrimidine 2(H)-ones under solvent free conditions”, *Phosphorus, Sulfur, and Silicon*, 179, 2169(2004).
- [70] N. Safari, P. R. Jamaat, M. Pirouzmand and **A. Shaabani**, “SYNTHESIS OF THE METALLOPHTHALOCYANINES USING MICROWAVE IRRADIATION UNDER SOLVENT-FREE AND REFLUX CONDITIONS”, *J. Porphyrines, Phthalocyanines*, 81, 209 (2004).

## 2005

- [71] **A. Shaabani**, F. Tavasoli-Rad and D.G. Lee, “POTASSIUM PERMANGANATE OXIDATION OF ORGANIC COMPOUND”, *Synth. Commun.*, 35, 571 (2005).

- [72] **Ahmad Shaabani**, Mohammad Bagher Teimouri, Sima Samadi, Kamal Soleimani “Microwave-Assisted Three-Component Condensation on Montmorillonite K10: Solvent-Free Synthesis of Furopyrimidines, Furocoumarins and Fuopyranones” *Synth. Commun.*, 35, 535 (2005).
- [73] **A. Shaabani** and A. Rahmati “Ionic liquid promoted efficient synthesis of 3,4-dihydropyrimidin-2-(1H)-ones”, *Cat. Lett.*, 100, 177 (2005).
- [74] Ayoob Bazgir, **Ahmad Shaabani** and Fatemeh Sefidkon, “Composition of the essential oil of *Peucedanum cervariifolium* C. A. Mey. from Iran”, *J. Essential Oil Research*, 17, 380 (2005).
- [75] **Ahmad Shaabani**, Soheila Naderi, Abbas Rahmati, Zahra Badri, Donald G. Lee, “Cleavage of Oximes, Semicarbazones, and Phenylhydrazones with Supported Potassium Permanganate”, *Synthesis*, 3023 (2005).
- [76] **Ahmad Shaabani**, Abbas Rahmati, Soheila Naderi, “A novel one-pot three-component reaction: Synthesis of triheterocyclic 4H-pyrimido[2,1 b]benzazoles ring systems”, *Bioorg. Med. Chem. Lett.*, 15, 5553 (2005).
- [77] **A. Shaabani**, A.H. Rezayan, “A very fast and easy procedure for the synthesis of Metallophthalocyanines”, *J. Porphyrines Phthalocyanines*, 617, 9 (2005).
- [78] **Ahmad Shaabani**, Ayoob Bazgir, Sakineh Arab-Ameri, Masoumeh Sharifi Kiasaraie, Sima Samadi, “Comparison of Catalytic Effect of Alkali and Alkaline Earth Metals Hydrogen Sulfate: As the Promoter for an Efficient Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones under Solvent-Free Conditions”, *Iran. J. Chem. Chem. Eng.*, 1, 24 (2005).
- [79] **Ahmad Shaabani**, Sima Samadi, Zahra Badri and Abbas Rahmati Ionic Liquid Promoted Efficient and Rapid One-pot Synthesis of Pyran Annulated Heterocyclic

Systems, *Cat. Lett.*, 104, 39 (2005).

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## سوابق آموزشی ، پژوهشی و اجرایی

### ۱- مقدمه :

آقای دکتر احمد شعبانی پس از اخذ دیپلم از دبیرستان آیت ... کاشانی (چهارم آبان سابق) شهر مقدس قم، تحصیلات دانشگاهی خود را در رشته شیمی در مقطع کارشناسی در دانشگاه شهید بهشتی به اتمام رسانده و فوق لیسانس را در گرایش شیمی آلی از انستیتو شیمی دانشگاه مازندران در شهر بابلسر و دکتری را در گرایش شیمی آلی در سال ۱۳۷۳ از دانشگاه تربیت مدرس در تهران اخذ نموده است. آقای دکتر شعبانی اولین دانشجوی فارغ التحصیل مقطع دکتری دانشکده علوم دانشگاه تربیت مدرس و اولین فارغ التحصیل دکتری شیمی در دانشگاه های دولتی در تهران می باشد. آقای دکتر شعبانی در مهرماه ۱۳۷۳ با مرتبه استادیاری در دانشگاه شهید بهشتی شروع بکار کرده و در سال ۱۳۷۷ به مرتبه دانشیاری ارتقاء پیدا کرده اند. ایشان در سال ۱۳۷۹ به مدت یک سال به عنوان Visiting Professor در دانشگاه «رجاینا»ی (Regina) کشور کانادا به امر پژوهش و تحقیق پرداخته اند. نامبرده در سال ۱۳۸۱ به مرتبه استادی نایل شده اند و اکنون استاد پایه ۱۸ دانشگاه شهید بهشتی می باشند.

آقای دکتر شعبانی در طول خدمت خود در دانشگاه شهید بهشتی مسئولیت راهنمایی ۳۰ پایان نامه دانشجویی در مقطع کارشناسی ارشد و ۸ پایان نامه دانشجویی در مقطع دکترا را بعهده داشته اند. حاصل فعالیت های پژوهشی او بالغ بر چاپ ۱۰۰ مقاله علمی در مجلات معتبر بین المللی ۳مقاله علمی در مجلات ملی، ارائه بیش از ۵۰ مقاله در کنگره ها و مجامع علمی ملی و بین المللی، ثبت یک اختراع و تألیف یک جلد کتاب می باشد. او همچنین موفق به انجام بالغ بر ۳۰ طرح پژوهشی بوده که بودجه آنها بوسیله معاونت پژوهشی دانشگاه شهید بهشتی ، بودجه دو در هزار صنایع، سازمان مدیریت و برنامه ریزی کشور ، شرکت ملی پتروشیمی و شرکت نفت تأمین شده است.

نامبرده در جشنواره مطبوعات سال ۱۳۷۶ وزارت فرهنگ و ارشاد اسلامی موفق به کسب رتبه اول مقاله علمی در علوم پایه شده اند. در ضمن نامبرده در سالهای ۱۳۸۱ ، ۱۳۸۴ و ۱۳۸۵ از طرف دانشگاه شهید بهشتی به عنوان پژوهشگر نمونه و در سال ۱۳۸۲ از طرف وزارت علوم تحقیقات و فناوری به عنوان استاد نمونه کشوری معرفی شدند.

## ۲-زمینه های پژوهشی مورد علاقه :

- مطالعه و بررسی واکنشهای تراکمی چند جزئی
- معرفی متدولوژی نوین در سنتز مواد آلی
- معرفی سیستمهای اکسند نوین برای اکسایش مرکاپتانها، سولفیدها، الکلها و آلکیل آرنها
- استفاده از روش های نظری در مطالعه پدیده های شیمی فیزیکی در شیمی
- ارایه روشهای نوین برای ساخت کاتالیستها از قبیل متالوفتالوسیانینها

## ۳- فعالیت اجرایی:

- رئیس بخش شیمی جهاد دانشگاهی و دفتر مرکزی جهاد دانشگاهی
- دو دوره نماینده جهادهای دانشگاهی سراسر کشور در شورای بررسی نهائی طرحها و تحقیقات دفتر مرکزی جهاد دانشگاهی
- معاونت پژوهشی و تحصیلات تکمیلی دانشکده علوم دانشگاه شهید بهشتی ۷۸ - ۷۴.
- رئیس پژوهشکده گیاهان داروئی دانشگاه شهید بهشتی ۸۲-۷۴.
- رئیس دانشکده علوم دانشگاه شهید بهشتی از ۸۲ تا ۸۵.
- عضو هیأت ممیزه دانشگاه از سال ۸۲ تا بحال.

## ۴- مقالات منتشر شده به زبان فارسی :

۱-۲- احمد شعبانی ، هدایت اله قورچیان و فاطمه نظری « *آغشته کردن کرین فعال به مواد شیمیایی به منظور*

*بالا بردن کارایی آن در مقابل عوامل شیمیایی* » نشریه شیمی و مهندسی شیمی ایران شماره ۲ ، ۱۳۷۴ ، صفحات

۶۹-۶۱

۲-۲- احمد شعبانی « *تهیه و تولید خاک رنگبر* » نشریه شیمی و مهندسی شیمی ایران، شماره ۲، ۱۳۷۷، صفحات

۱۱۴-۱۱۰

۲-۳- احمد شعبانی « واکنشهای شیمیایی نوسانی » اطلاعات علمی ، شماره ۵ ، ۱۳۶۴ ، صفحات ۱۸-۱۶

#### ۵- اختراعات ثبت شده:

احمد شعبانی و ناصر صفری « روش تهیه انواع فنالوسیانین های فلزی با استفاده از تابش امواج میکروویو » .

شماره ثبت اختراع ۲۵۸۵۹ مورخ ۷۷/۲/۷ اداره ثبت شرکت و مالکیت صنعتی دولت جمهوری اسلامی ایران

#### ۶- کتاب منتشر شده :

احمد شعبانی و حسن حذرخانی ، کاربرد طیف بینی در تعیین ساختار مولکولی ترکیبات آلی (تمرینات و مسائل) ، انتشارات دانشگاه شهید بهشتی ، ۱۳۷۹ .

#### ۷- جوایز

-برنده اولین مقاله علوم پایه در چهارمین جشنواره مطبوعات در سال ۱۳۷۶

-پژوهشگر نمونه دانشگاه شهید بهشتی در سال ۱۳۸۱

-استاد نمونه کشوری وزارت علوم تحقیقات و فناوری در سال ۱۳۸۲

-پژوهشگر نمونه دانشگاه شهید بهشتی در سال ۱۳۸۴

-پژوهشگر نمونه دانشکده علوم دانشگاه شهید بهشتی در سال ۱۳۸۵

۸- طرح‌های پژوهشی:

ردیف	عنوان طرح	موسسه تأمین کننده بودجه	مسئولیت	نتیجه
۱	تهیه خاک رنگبر	جهاد دانشگاهی	مسئول طرح	واگذاری به شرکت فرآوری مواد معدنی ایران و استخراج و چاپ یک مقاله در نشریه شیمی و مهندسی شیمی ایران.
۲	آغشته سازی کربن فعال به مواد شیمیایی	جهاد دانشگاهی	مسئول طرح	اولین مقاله علوم پایه در چهارمین جشنواره مطبوعات در سال ۱۳۷۶
۳	استخراج کافئین از ضایعات چای	جهاد دانشگاهی	مسئول طرح	واحد پایلوت در مقیاس ۱۰Kg در هر پخت طراحی و ساخته شده است.
۴	روشهای خنثی سازی عوامل شیمیایی	جهاد دانشگاهی	مسئول طرح	در حد فاز مطالعاتی به اتمام رسیده است.
۵	تهیه تترامتیل تیورام دی سولفید	جهاد دانشگاهی	مسئول طرح	مرحله آزمایشگاهی به اتمام رسیده و نتایج به وزارت جهاد کشاورزی واگذار شده است.
۶	کاهش رنگ گلوکز	شرکت گلوکز و نشاسته	مسئول طرح	در حال استفاده از نتایج طرح می باشند.
۷	تهیه و تولید روی به طریق الکترولیز	شرکت فرآوری	مشاور	کارخانه تاسیس و در مقیاس انبوه در زنجان در حال تولید می باشد.
۸	فرمولاسیون و تولید کیت های تشخیص طبی	جهاد دانشگاهی	مشاور	به کارخانه داروسازی ابوریحان واگذار شده است.

ارائه در پنجمین سمینار تخصصی شیمی آلی دانشگاه صنعتی اصفهان استخراج یک مقاله علمی.	مسئول طرح	معاونت پژوهشی دانشگاه شهید بهشتی	واکنش حلقه زایی {۱+۴} ایزوسیانید ها با ترکیبات کربونیل دار کم الکترون سیر نشده	۹
ارایه نتایج در کنگره بین المللی شیمی در لندن و چاپ یک مقاله از نتایج طرح	مسئول طرح	معاونت پژوهشی دانشگاه شهید بهشتی	بررسی ایزومریزاسیون سیس - ترانس آزوبنزنها با گروههای استخلافی بخشنده- پذیرنده	۱۰
ثبت یک اختراع و استخراج و چاپ چهار مقاله در مجلات بین المللی	مسئول طرح	معاونت پژوهشی وزارت فرهنگ و آموزش عالی (بودجه دو هزار)	روش تهیه انواع فتالوسیانین های فلزی با استفاده از امواج میکروویو	۱۱
خاتمه یافته است- چاپ یک مقاله	همکار	معاونت پژوهشی دانشگاه شهید بهشتی	مطالعه پایداری و آنالیز صورت بندی بیلوردین با استفاده از روش نیمه تجربی اوربیتال ملکولی MOPAC	۱۲
خاتمه یافته و سه مقاله از آن استخراج و به چاپ رسیده است.	مسئول طرح	معاونت پژوهشی دانشگاه شهید بهشتی	مطالعه و بررسی قدرت اکسید کنندگی ترکیبات آلی بوسيله سیستم اکسید کننده NaBrO <sub>3</sub> /NH <sub>4</sub> CL	۱۳
در حال حاضر از نتایج طرح استفاده می شود.	مسئول طرح	شرکت فرآوری	جایگزین پرمنگنات پتاسیم با اکسید آرسنیک در فرآیند تولید فلز روی به طریق الکترولیز	۱۴
فاز آزمایشگاهی و فاز پایلوت پلنت به اتمام رسیده است.	مسئول طرح	شرکت گلوکزان	تهیه و تولید کارامل از شربت گلوکز	۱۵
به اتمام رسیده و چهار مقاله بین المللی استخراج و به چاپ رسیده است.	مسئول طرح	معاونت پژوهشی دانشگاه شهید بهشتی	مطالعه واکنشهای سه مولکولی جدید ایزوسیانید ها و سنتز آمید و دی استرهای جدید پراستخلاف با استفاده از مشتقات ملدروم اسید	۱۶

۱۷	بررسی ترکیبات تشکیل دهنده اسانس دو گونه بومی ایران 1- Hippomarathrum microcarpum 2- Stachys pilifera	معاونت پژوهشی دانشگاه شهید بهشتی	مسئول طرح	خاتمه یافته است و یک مقاله در مجلات معتبر به چاپ رسیده است.
۱۸	اکسایش متان به متانول	شرکت پتروشیمی	مسئول طرح	خاتمه یافته است
۱۹	اکسایش کاتالیستی آلکیل آرنها به وسیله هوا	شرکت پتروشیمی	مسئول طرح	در دست انجام است.
۲۰	تهیه و ساخت کاتالیست مراکس	شرکت نفت	همکار طرح	خاتمه یافته است
۲۱	ارائه روشهای شیمیایی جهت رفع آلودگیهای نفتی از آب و خاک جزیره خارک	شرکت ملی نفت ایران	مسئول طرح	در دست انجام است.
۲۲	بررسی اثر کاتالیزوری بستری در اکسایش ترکیبات آلی بوسیله پرمنگنات پتاسیم	معاونت پژوهشی دانشگاه شهید بهشتی	مسئول طرح	خاتمه یافته است
۲۳	استخراج و شناسایی ترکیبات تشکیل دهنده اسانس سه گیاه معطر انحصاری ایران بو مادران طالقانی، شقایق آبی و پونه سای آذری	معاونت پژوهشی دانشگاه شهید بهشتی	مسئول طرح	خاتمه یافته و از نتایج طرح یک مقاله استخراج و به چاپ رسیده است.
۲۴	استخراج کارمینیک اسید و کارمین از قرمزدانه	سازمان مدیریت و برنامه ریزی	مسئول طرح	خاتمه یافته است و در حال بررسی برای استفاده از نتایج آن می باشد.
۲۵	سنتر پیگمنت رنگی ۷۳	سازمان مدیریت و برنامه ریزی	همکار طرح	خاتمه یافته است
۲۶	معرفی واکنش های چهار ملولکولی جدید ایزوسیانیید ها	معاونت پژوهشی دانشگاه شهید بهشتی	مسئول طرح	خاتمه یافته است و ۴ مقاله در مجلات معتبر به چاپ رسیده است.
۲۸	جایگزینی اکسید آرسنیک با پرمنگنات پتاسیم در فرایند تولید روی	شرکت فراوری مواد معدنی	مسئول طرح	در حال استفاده از نتایج طرح
۲۹	سنتر فتالوسیانین عاری از فلز و فتالوسیانین های فلزی	معاونت پژوهشی دانشگاه شهید بهشتی	مسئول طرح	خاتمه یافته است

خاتمه یافته است	همکار اصلی طرح	شرکت ملی نفت ایران	بررسی و مطالعه روش های مرسوم در ازدیاد برداشت نفت خام از منابع و ذخایر زیرزمینی	۳۰
خاتمه یافته است	مسئول طرح	معاونت پژوهشی دانشگاه شهید بهشتی	سنتز ترکیبات پلی هتروسیکل بر اساس واکنش تراکمی سه جزیی نوین از ایزوسیانیدها	۳۱