

Farahnaz Nourmohammadian



Place of Birth Iran-Abadan
Marital Status Married
Address ▪ # 59, Vafamanesh St., Lavizan Exit, Sayad Shirazi HWY, (P.O.Box 16765-654)
E-mail ▪ nour@icrc.ac.ir and nourmoh_f@yahoo.com
Telephone ▪ +98-021-22956126

Education

	Place	Year	Project Title
B.A.	Tabriz University	1994 (top student)	Thesis: Separation and Purification of Aromatic Compounds from crude Petroleum Oil
M.Sc.	Tarbiat Modarres University	1998(top student))	Synthesis and Isomeric Study of Caprilolactam and fomaramids b) Semiempirical calculations of isopyridines
Ph.D.	Tarbiat Modarres University	2000 (top student)	A New and One pot Synthesis of Heterocyclic Compounds by Vinyl phosphoranes

Research Interests

- Synthesis of Organic compounds i.e.: Organic Colorants and Intermediates, Heterocyclic compounds,
- Ab initio Computational study
- Spectroscopic Analysis(NMR, IR, UV-Vis, Fluorescence and etc)
- Natural products

Job Experiences

- Assistant Professor, Organic Colorant Department, Institute for Colorants, Paints and Coatings (ICPC), Tehran, Iran (from 2000 to present).
- Head of Organic Colorants Department(2006- to present)
- Head of Central Laboratory (2001-2003)
- Chief Editor of Institute for Colorants, Paints and Coatings News Letter
- Executive Manager of Journal of Color Science and Technology(2006- to present)
- Executive Manager of Quality Control System Iso/IEC 17025
- Executive Manager of 1st International and 2nd National Conference of Color Science and Thechnology to present)
-

Research Projects

Year

- | | |
|--|----------------------|
| 1) Synthesis of basic yellow 28 in pilot Scale,(F. Nourmohammadian) 440 milione Rials granted by ministry of Industry. | 2001
2001
2002 |
| 2) Assessment of Acid Azo Dyes-induced DNA Damage Using Single Cell Electrophoresis (F. Karami and F. Nourmohammadian), 140 milione Rials granted by ministry of Science and technology (accomplished) . | 2003 |
| 3) Synthesis of some Novel Anthraquinone Dyes by Vinyl phosphonium salts, (I. Yavari and Farahnaz Nourmohammadian), 120 milione Rials granted by ministry of Science and technology (accomplished) . | 2004
2004 |
| 4) Study of the effect of Fe(II) complex on reduction potential of Indigo,(A. Fakhari and F. Nourmohammadian) 90 milione Rials granted by ministry of Science and technology | 2005 |
| 5) Synthesis of Indigo (accomplished) | 2006 |
| 6) Synthesis of Disperse red 1, and its Environmental Study, (accomplished) | 2005 |
| 7) Ab initio Study of Diketopyrrolopyroles and relative Isomers (accomplished) | - |
| 8) Structure, energy and electronic levels study of Anthracendiones by Ab initio calculations (accomplished) | - |
| 9) Synthesis of basic yellow 13 by using available starting materials in Iran (accomplished) | |
| 10) Synthesis of basic yellow 28 by using available starting materials in Iran (accomplished) | |

11) Synthesis of modern anthraquinone dyes based on 1,4- anthracenediones by thermal and microwave methods (accomplished)

12) Hydrolysis and dyeing of polyester fibers via microwave (accomplished)

List of Publications

1. Farahnaz Nourmohammadian and Mahnaz Davoodzadeh Gholami, Solvent-free synthesis of novel highly functionalized dihydroanthra[1,2-b]furan-6,11-dione derivatives, *Synthetic Communications* (2008) In press
2. Farahnaz Nourmohammadian, Siamak Salami, Computational note on nine structural isomers of bioactive anthracenetetraone, *Journal of Molecular Structure: THEOCHEM* 861 (2008) 147–148
3. Farahnaz Nourmohammadian, Mahnaz Davoodzadeh, Abdolali Alizadeh, New cyclopentadiene derivatives as novel pH indicators, *J. Dyes and Pigment*, 74 (2007) 741-743.
4. Farahnaz Nourmohammadian, Issa Yavari, Zia Shafaei, Ab- initio molecular orbital study of anthracendiones, *J. Dyes and Pigment*,75 (2007) 479e482
5. Farahnaz Nourmohammadian, Issa Yavari, Dariush Ajami, Ab- initio molecular orbital study of dithiopyrrolopyrrole and its structural isomers. *Phosphorus, sulfur and Silicon*, 2005, 180:1-9.
6. Farahnaz Nourmohammadian, Issa Yavari, Shahram Moradi , Alireza Mirhabibi, An ab initio molecular orbital study of structural isomers of diketopyrrolopyrrole, *Dyes and Pigments* 67 (2005) 15-20.
7. Niyaz Mohammad Mahmoodi, Mokhtar Arami, Kamaladin Gharanjig, Farahnaz Nourmohammadian, Abbas Yousefi Bidokhti ,Purification of water containing agricultural organophosphorus pollutant using titania nanophotocatalysis: Laboratory studies and numerical modeling , *Desalination*, 230(2008)183-192
8. Issa Yavari^{a,b,*}, Ali R. Alborzi^b, Bita Mohtat^b, Farahnaz Nourmohammadian, C-Vinylation of 1,8-dihydroxyanthraquinone promoted by triphenylphosphine, *Synthetic Communications* 2007, vol. 38 issue 5 .

9. Laleh Tavakoli, Yadollah Yamini, Homeyra Ebrahimzadeh, Azizollah Nezhadali, Shahab Shariati and Farahnaz Nourmohammadian Development of cloud point extraction for simultaneous extraction and determination of gold and palladium using ICP-OES, *Journal of Hazardous Materials*, 152 (2008) 737–743
10. N.M. Mahmoodi, N. Yousefi, M. Arami, K. Gharangic, F. Nourmohammadian, Nanophotocatalysis using immobilized titanium dioxide nanoparticle Degredation and mineralization of water containing organic pollutant: Case study of Butachlor, *Materials Research Bulletin*, Vol.42, Issue 5, May 2007, Page 797-806
11. Issa Yavari, Shoaleh Dehghan and Alireza Alborzi, Farahnaz Nourmohammadian Synthesis and Dynamic NMR Study of Dialkyl 1-(9, 10-dioxo-9,10-dihydro-1-anthracenyl)-4-ethoxy-5-oxo-4,5-dihydro-1H-pyrrole-2,3-dicarboxylate. *Phosphorus, sulfur and Silicon*, 2005, 180:1-7
12. Y.Yamini, J. Fashihi, F. Nourmohammadian, N. Bahrami, Investigations on the solubilities of some disperse azo dyes in supercritical carbon dioxide; *Dyes and Pigments*, 2004, 63: 161-168.
13. I. Yavari, F.Nourmohammadian and H-R. Bijanzadeh, synthesis of dimethyl 2-(2,4,6-trimethylphenoxy)-3-triphenylphosphoniobutanedioate and its application in intramolecular wittig reactions, *phosphorus, sulfur and Silicon*, 2002, 177:1147-1152
14. I. Yavari, F.Nourmohammadian and D. tahmasebi, Ab initio study of isopyridines, *Journal of Molecular Structure (Theochem)* 2001, 542:199-206
15. I. Yavari, F.Nourmohammadian, Synthesis of Highly Functionalized stable Heterocyclic phosphorus ylides. Cycloaddition Reaction between Conjugated phosphorus ylides and Alkyl propiolates, *Tetrahedron* (2000) 56: 5221-5224
16. I. Yavari, A. shaabani, H. Soleimani, F. Nourmohammadian, and H. Bijanzadeh, Effect of internal Hydrogen Bonding on Base-Catalyzed NH Proton-Exchange Reactions of isomeric Enamines, *MAGNETIC RESONANCE IN CHEMISTRY*, 1996, 34:1003-1006 (1996)
17. I. Yavari, F.Nourmohammadian, Stereoselective synthesis of tetraalkyl cyclobutene – 1,2,3,4-tetracarboxylates. Synthesis of tetraalkyl (z,z) – Buta-1,3-diene-1,2,3,4,-tetracarboxylates, *JOURNAL OF CHEMICAL RESEARCH (S)* 1999, 12:513
18. I. Yavari, D. Tahmasebi and F. Nourmohammadian, Conformational and Configurational properties of nine-membered cyclic diketenimines, *Journal of Molecular structure (Theochem)*, 1999, 492: 209-215
19. I. Yavari, SH. Moradi, F.Nourmohammadian and D. Tahmasebi, Ab initio molecular orbital study of valence isomers of pyridine, *Journal of Molecular structure(Theochem)*, 2001, 578: 249-253.
20. I. Yavari, F.Nourmohammadian, A simple synthesis of highly functionalized Ketenimines, *J. CHEM. RESEARCH(S)*, 2000, 218-219.