

## Issa Yavari



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### **I. PERSONAL INFORMATION:**

Name: Issa Yavari  
Date of Birth: March 15, 1948  
Place of Birth: Golavij, Kermanshah, Iran  
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### **II. EDUCATIONAL RECORDS:**

<b>Degree</b>	<b>Institution</b>	<b>Field</b>	<b>Date</b>
B.Sc	Pars College, Tehran, Iran	Chemistry	1967-1971

<b>M.Sc</b>	Pars College, Tehran, Iran	Chemistry	1971-1973
<b>Ph.D.</b>	University of California at Los Angeles (UCLA)	Organic Chemistry	1974-1977
<b>Post Doc</b>	California Institute of Technology (CALTECH)		1977-1978

### III. ACADEMIC EXPERIENCES:

Institute of Chemistry, University of Mazandaran, Babolsar, Iran, Assistant Professor - 1978-1982

Tarbiat Modares University, Tehran, Iran, Professor of Organic Chemistry

### VI. RESEARCH INTERESTS:

- Stereochemistry and Conformational Analysis
- Proton-Transfer Reactions
- Dynamic NMR Spectroscopy
- Intramolecular Wittig Reactions
- Computational Chemistry
- Synthetic Methodology and Green Chemistry

## *Issa Yavari: List of Publications*

### 1975

1. Yavari, I., Esfandiari, S., Mostashari, A.J., Hunter, P.W.W., Photoreaction of benzofurazan and dimethyl acetylenedicarboxylate. Synthesis of isomeric isoxazoles. Carbon-13 nuclear magnetic resonance spectra of isoxazoles and oxazoles, *Journal of Organic Chemistry*, 1975, **40**, 2880-2883
2. Anet, F.A.L., Yavari, I., The conformations of 1,3,5- and 1,3,6-cyclooctatriene, *Tetrahedron Letters* **16**, 4221-4224
3. Anet, F.A.L., Yavari, I., Conformation of 1,2,6-cyclononatriene, *Journal of the Chemical Society, Chemical Communications*, 1975, 927

- Anet, F.A.L., Yavari, I., Conformational properties of cis-cis-1,3-cyclooctadiene and its epoxides, *Tetrahedron Letters*, 1975, **16**, 1567-1570

## 1976

- Anet, F.A.L., Yavari, I., Ferguson, I.J., Katritzky, A.R., Moreno-Mañas, M., Robinson, M.J.T., The conformational analysis of saturated heterocycles. N-inversion in hindered piperidines, *Journal of the Chemical Society, Chemical Communications*, 1976, 399-400
- Anet, F.A.L., Yavari, I., Carbon-13 nuclear magnetic resonance study of pyridine N-oxide, *Journal of Organic Chemistry*, 1976, **41**, 3589-3591
- Anet, F.A.L., Yavari, I., The chiral stabilities of "trimeric ketone peroxides", *Tetrahedron Letters*, 1976, **17**, 3787-3790
- Anet, F.A.L., Yavari, I., The Conformational Equilibrium in N,N'-Dimethylpiperazine, *Tetrahedron Letters*, 1976, **17**, 2093-2096
- Anet, F.A.L., Yavari, I., Carbon-13 NMR Spectra of Benzofuroxan and Related Compounds, *Org Magn Reson*, 1976, **8**, 158-160.
- Anet, F.A.L., Yavari, I., Carbon-13 NMR Chemical Shifts of Carbodiimides, *Org Magn Reson*, 1976, **8**, 327-328.

## 1977

- Anet, F.A.L., Yavari, I., Conformational properties of cis,cis-1,5-cyclononadiene. Dynamic nuclear magnetic resonance spectroscopy and iterative force-field calculations, *Journal of the American Chemical Society*, 1977, **99**, 6496-6499
- Anet, F.A.L., Yavari, I., Nitrogen inversion in N-chloropiperidine, *Tetrahedron Letters*, 1977, **18**, 3207-3210
- Anet, F.A.L., Yavari, I., Nitrogen inversion in piperidine, *Journal of the American Chemical Society*, 1977, **99**, 2794-2796
- Anet, F.A.L., Yavari, I., Generalized anomeric effect and barrier to internal rotation about the oxygen-methylene bond in chloromethyl methyl ether, *Journal of the American Chemical Society*, 1977, **99**, 6752-6753
- Anet, F.A.L., Yavari, I., Conformational properties of cis,cis-1,4-cyclooctadiene. Dynamic nuclear magnetic resonance spectroscopy and iterative strain-energy calculations. *Journal of the American Chemical Society*, 1977, **99**, 6986-6991
- Anet, F.A.L., Yavari, I., Dynamics of Cyclic Allenes. Conformational Properties of 1,2-Cyclononadiene, 1,2,6-Cyclononatriene and 1,2,6,7-Cyclodecatetraene. Dynamic NMR Spectroscopy and Iterative Force-Field Calculations, *Journal of the American Chemical Society*, 1977, **99**, 7640-7649.

## 1978

17. Anet, F.A.L., Yavari, I., Unusual population of the axial-equatorial conformation in N,N'-dichloropiperazine, *Journal of the Chemical Society, Chemical Communications*, 1978, 58-59
18. Anet, F.A.L., Degen, P.J., Yavari, I., Conformations of azocane (azacyclooctane), *Journal of Organic Chemistry*, 1978, **43**, 3021-3023
19. Yavari, I., Botto, R.E., Roberts, J.D., Nitrogen-15 nuclear magnetic resonance spectroscopy. Furazans and related systems, *Journal of Organic Chemistry*, 1978, **43**, 2542-2544
20. Staral, J.S., Yavari, I., Roberts, J.D., Prakash, G.K.S., Donovan, D.J., Olah, G.A., Low-temperature carbon-13 nuclear magnetic resonance spectroscopic investigation of C<sub>4</sub>H<sub>7</sub><sup>+</sup>. Evidence for an equilibrium involving the nonclassical bicyclobutonium ion and the bisected cyclopropylcarbinyl cation, *Journal of the American Chemical Society* 1978, **100**, 8016-8018
21. Anet, F.A.L., Yavari, I., Conformations of cis,cis-1,3-cyclooctadiene and its epoxides. Dynamic nuclear magnetic resonance spectroscopy and iterative force-field calculations, *Journal of the American Chemical Society*, 1978, **100**, 7814-7819
22. Yavari, I., Roberts, J.D., Nitrogen-15 nuclear magnetic resonance spectroscopy. Carbodiimides, *Journal of Organic Chemistry*, 1978, **43**, 4689-4693
23. Yavari, I., Roberts, J.D., Nitrogen-15 nuclear magnetic resonance spectroscopy. Differential rates of N-H proton-transfer reactions in phenylhydrazine, *Journal of the American Chemical Society*, 1978, **100**, 4662-4664
24. Olah, G.A., Prakash, G.K.S., Donovan, D.J., Yavari, I., Concerning the structure and modes of degenerate rearrangement of the nonclassical 1-methylcyclobutyl and related carbocations, *Journal of the American Chemical Society*, 1978, **100**, 7085-7086
25. Yavari, I., Roberts, J.D., Nitrogen-15 nuclear magnetic resonance spectroscopy. A simple procedure for determination of the rates of N-H proton exchange of cis- and trans-1-aza-2-cyclononane, *Journal of the American Chemical Society*, 1978, **100**, 5217-5218
26. Anet, F.A.L., Yavari, I., Force-field calculations for some unsaturated cyclic hydrocarbons, *Tetrahedron*, 1978, **34**, 2879-2886
27. Yavari, I., Roberts, J.D., <sup>15</sup>N nuclear magnetic resonance spectroscopic investigation of differential rates of base-catalyzed N-H proton-exchange reactions of 1-aza-2-cycloheptanone and 1-aza-2-cycloheptanethione, *Tetrahedron Letters*, 1978, **19**, 2491-2494
28. Yavari, I., Roberts, J.D., Differential rates of proton exchange for the guanidinium nitrogens of L-arginine determined by natural-abundance nitrogen-15 nuclear magnetic resonance spectroscopy. *Biochemical and Biophysical Research Communications*, 1978, **83**, 635-640

## 1979

29. Anet, F.A.L., Yavari, I., A Dynamic NMR Study of Nitrogen Inversion in N,N'-Dimethylimidazolidine, *Org Magn Reson*, 1979, **12**, 362-364.
30. I Yavari, JS Staral, JD Roberts, Nitrogen-15 NMR Spectra of Isocyanates, Isothiocyanates and N-Sulfinylamines, *Org Magn Reson*, 1979, **12**, 340-342.

31. I Yavari, JD Roberts, Nitrogen-15 NMR Spectroscopy. Rates of Base-Catalyzed N-H Proton Exchanges of Five-to-Nine-Membered Lactams in Presence of *N*-Methylactamide in Water and in Dimethyl Sulfoxide, *Nouv J Chim*, 1979, **3**, 279-282.
32. FAL Anet, NR Easton, I Yavari, Carbon-13 NMR Spectra of *cis cis*-1,5-Cyclooctadiene Monoepoxide and *cis, syn, cis*-1,5-Cyclooctadiene Diepoxide, *Org Magn Reson*, 1979, **12**, 299-301.
33. I Yavari, JD Roberts, Nitrogen-15 NMR Spectroscopy. Pyridine *N*-Oxides and Quinoline *N*-Oxides, *Org Magn Reson*, 1979, **12**, 87-91.

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34. I Yavari, JD Roberts, Nitrogen-15 NMR Spectroscopy. Differential Rates of N-H Proton-Exchange of Hydrazinocabothioamide and 4-Methylhydrazinocarbothioamide in Dimethyl Sulfoxide, *Org Magn Reson*, 1980, **14**, 61-64.
35. I Yavari, JD Roberts, Nitrogen-15 NMR Spectroscopy. N-H Proton Exchange Reactions of Urea and Substituted Ureas, *Org Magn Reson*, 1980, **12**, 68-71.
36. I Yavari, Conformational Energy Surface of 1,2-Cyclooctadiene, *J Mol Struct*, 1980, **65**, 169-172.
37. I Yavari, A Proton Nuclear Magnetic Resonance Spectroscopic Study of Conformational Equilibration of 1-Aza-bicyclo[3.2.2]nonane, *J Mol Struct*, 1980, **67**, 293-296.

## 1981

38. Abdi, S., Yavari, I., Askari, M. (1981) Conformations of methylcyclooctane. A combined iterative force field-CNDO approach. *Journal of Molecular Structure: THEOCHEM* 76 (1), pp. 37-41
39. I Yavari, A Proton NMR Spectroscopic Study of Conformational Properties of 1,3-Dioxepane and 4,4,7,7-Tetramethyl-1,3-dioxepane, *Org Magn Reson*, 1981, **14**, 511-514.
40. P Rashidi-Ranjbar, I Yavari, On the Structure of Dithizone, *Org Magn Reson*, 1981, **16**, 168-169.

## 1982

41. Y. Chun, I Yavari, JD Roberts, Nitrogen-15 Nuclear Magnetic Resonance Spectroscopy. N-H Proton Exchange Reactions of Urea, Thiourea, Acetamide and Thioacetamide, *Org Magn Reson*, 1982, **18**, 74-76.
42. I Yavari, JD Roberts, Nitrogen-15 Nuclear Magnetic Resonance Spectroscopic Study of Compounds with Nitrogen-Nitrogen Bond, *Org Magn Reson*, 1982, **20**, 235-238.

## 1984

43. I Yavari, S Abdi, Further Studies of the Mixtures Obtained From Reaction Between 1,8-Diaminonaphthalene and Dimethyl Acetylenedicarboxylate, *J Chem Res (S)*, **1984**, 16-17.
44. I Yavari, Mass Spectrometric Studies of Isomeric Dimethyl 3-(4-Cyanobuta-1,3-dienyl)isoxazole-4,5-dicarboxylates, *Org Mass Spectrometry*, 1984, **19**, 250-252.
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## 1992

46. I Yavari, A Hosain-Nia, Differential Rates of N-H Proton Exchange Reaction of Two Isomeric Enamines, *Magn Reson Chem*, 1992, **30**, 413-414.

## 1993

47. Yavari, I., Baharfar, R., Asghari, S. (1993) Dynamics of cyclic allenes: conformational properties of 1,2,4-cyclononatriene and 1,2,5-cyclononatriene. *Journal of Molecular Structure: THEOCHEM* 283 (C), pp. 277-282

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48. Yavari, I., Asghari, S., Shaabani, A. (1994) Dynamics of cyclic allenes. Iterative molecular mechanics calculations of 1,2,5,6-cyclodecatetraene. *Journal of Molecular Structure: THEOCHEM* 309 (1), pp. 53-57
49. I Yavari, M. F. Mosavi, A Shaabani, D Nori-Shargh, Conformational Properties of (Z,Z)-Cyclohepta-1,3-diene and (Z,Z)-Cyclohepta-1,4-diene, *J Chem Res (S)*, **1994**, 272-273.
50. I Yavari, A Shaabani, Oxidation of Primary and Secondary Alcohols to Carbonyl Compounds Using Hexamethylenetetraamine-Bromine, *J Chem Res (S)*, **1994**, 274-275.
51. I Yavari, F Aghajani, A Shaabani, Conformational Energy Surface of Cyclonona-1,2,5,6-tetraene, *J Chem Res (S)*, **1994**, 110-111.
52. I Yavari, M Heydari, D Nori-Shargh, Reaction Between *tert*-Butyl Isocyanide and Dimethyl Acetylenedicarboxylate in Presence of C-H Acids, *J Chem Res (S)*, **1994**, 384-385.
53. A Shaabani, I Yavari, D Nori-Shargh, Configurational Properties of Sulfur Diimide, Methyl Sulfur Diimide, and Dimethyl Sulfur Diimide, *J Mol Struct (THEOCHEM)*, 1994, **310**, 279-286.

## 1995

54. Yavari, I., Riazi-Kermani, F. (1995) Zinc-promoted Barbier-type reaction of propargyl bromide with aldehydes in aqueous media. *Synthetic Communications* 25 (19), pp. 2923-2928

55. I Yavari, D Nori-Shargh, AM1 Study of Single-Atom *peri*-Bridged Naphthalenes, *J Phys. Org Chem*, 1995, **8**, 696-698.
56. I Yavari, D Nori-Shargh, Response of Semi-empirical SCF MO Methods to Steric and Resonance Effects in a Crowded Benzene-Dewar Benzene System, *J Chem Res (S)*, **1995**, 318-319.

## 1996

57. Yavari, I., Shaabani, A., Soliemani, H., Nourmohammadian, F., Bijanzadeh, H.R. (1996) Effect of internal hydrogen bonding on base-catalyzed NH proton-exchange reactions of isomeric enamines. *Magnetic Resonance in Chemistry* 34 (12), pp. 1003-1006
58. Yavari, I., Davar-Panah, M., Heydari, M., Najafian, K., Zonouzi, A. (1996) A Facile Route to Highly Functionalized Ketenimines. *Monatshefte fur Chemie* 127 (8-9), pp. 963-966
59. Yavari, I., Tahmassebi, D., Nori-Shargh, D., Heydari, M. (1996) AM1 Study of Conformations of Oxocane and 1,3-Dioxocane. *Monatshefte fur Chemie* 127 (10), pp. 1021-1025
60. Yavari, I., Ramazani, A. (1996) Vinyltriphenylphosphonium Salt Mediated Preparation of Dialkyl 2H-1-Benzopyran-2,3-dicarboxylates. An Efficient One-pot Synthesis of 2H-Chromene Derivatives. *Journal of Chemical Research - Part S* (8), pp. 382-383
61. Yavari, I., Fallah-Bagher-Shaidaii, H., Nori-Shargh, D. (1996) MNDO study of conformational properties of cyclic sulfur diimides. *Journal of Molecular Structure: THEOCHEM* 364 (1), pp. 79-84
62. Yavari, I., Nori-Shargh, D., Fallah-Bagher-Shaidaii, H. (1996) Reaction of Meldrum's Acid with Alkyl Isocyanides. Synthesis of a Novel Class of Furan Derivatives. *Journal of Chemical Research - Part S* (3), pp. 146-147
63. Yavari, I., Ramazani, A., Yahya-Zadeh, A. (1996) Synthesis of densely functionalized N-hydroxypyrroles mediated by vinyltriphenylphosphonium salt. *Synthetic Communications* 26 (23), pp. 4495-4499

## 1997

64. Yavari, I., Esmaili, A.A., Ramazani, A., Bolbol-Amiri, A.R. (1997) A Facile Route to Functionalized 1-Arylsulfonyl-1,2-dihydroquinolines. *Monatshefte fur Chemie* 128 (8-9), pp. 927-931
65. Yavari, I., Islami, M.R. (1997) One-pot synthesis of sterically congested phosphorus ylides. *Phosphorus, Sulfur and Silicon and Related Elements* 130, pp. 229-233
66. Yavari, I., Shaabani, A., Maghsoodlou, M.T. (1997) On the Reaction between Alkyl Isocyanides and 3-Benzylidene-2,4-pentanedione. A Convenient Synthetic Route to Densely Functionalized Furans. *Monatshefte fur Chemie* 128 (6-7), pp. 697-700
67. Yavari, I., Nori-Shargh, D., Baharfar, R., Hekmat-Shoar, R., Norouzi-Arasi, H. (1997) Configurations of Cyclododeca-1,2,4,5,7,8,10,11-octaene and Its Octamethyl Derivative. *Journal of Chemical Research - Part S* (10), pp. 376-377

68. Yavari, I., Ramazani, A., Esmaili, A.A. (1997) One-step Synthesis of Dialkyl 1,2-Dihydroquinoline-2,3-dicarboxylates. A Vinyltriphenylphosphonium Salt Mediated Intramolecular Wittig Reaction. *Journal of Chemical Research - Part S* (6), pp. 208-209
69. Yavari, I., Ramazani, A. (1997) One-pot stereoselective synthesis of dimethyl (2-hydroxy-4,4-dimethylcyclohex-1-en-6-one-1-yl)-3-(diphenylphosphonato) butanedioate. *Phosphorus, Sulfur and Silicon and Related Elements* 130, pp. 73-77
70. Yavari, I., Maghsoodlou, M.T., Pourmossavi, A. (1997) Reaction between 1,10-Phenanthroline and Dialkyl Acetylenedicarboxylates. A Facile Synthetic Route to Helical Dipyrrolophenanthrolines. *Journal of Chemical Research - Part S* (6), pp. 212-213
71. Yavari, I., Baharfar, R., Nori-Shargh, D., Shaabani, A. (1997) Dynamics of Cyclic Allenes. Conformational Energy Surface of Cyclodeca-1,2,4,5-tetraene. *Journal of Chemical Research - Part S* (5), pp. 162-163
72. Yavari, I., Baharfar, R. (1997) Regioselective Reaction between 3-Ethoxalyl-5-methylcyclopentane-1,2,4-trione and Vinyltriphenylphosphonium Salts: Convenient Synthetic Route to Functionalized Cyclopenta[b]furans. *Journal of Chemical Research - Part S* (4), pp. 146-147
73. Yavari, I., Nori-Shargh, D., Fallah-Bagher-Shaidaii, H., Dadgar, M. (1997) MNDO study of nitrogen atom inversion in piperazine, N,N'-dimethylpiperazine and N,N'-dichloropiperazine. *Iranian Journal of Chemistry and Chemical Engineering* 16 (2), pp. 63-67
74. Yavari, I., Tahmassebi, D., Zonouzi, A., Nori-Shargh, D. (1997) AM1 Study of the Chiral Stabilities of Ketenimines. *Journal of Chemical Research - Part S* (12), pp. 476-477
75. Yavari, I., Taherpour, A., Jabbari, A. (1997) Conformational Properties of Cyclododeca-1,5,9-triene. *Journal of Chemical Research - Part S* (6), pp. 210-211
76. Yavari, I., Mostafavi, H., Tahmassebi, D., Hekmat-Shoar, R. (1997) Condensation of 1,3-Diketones with 1,8-Diaminonaphthalene: Synthesis of Bis(2,3-dihydroperimidine-2-spiro)cycloalkanes. *Monatshefte fur Chemie* 128 (6-7), pp. 675-679
77. Yavari, I., Shaabani, A., Asghari, S., Olmstead, M.M., Safari, N. (1997) Reaction between alkyl isocyanides and 1,1,1,5,5,5-hexafluoropentane-2,4-dione. Synthesis and structure of 1-alkyl-3,5-bis(trifluoromethyl)-5-hydroxy-1H-pyrrol-2(5H)-ones. *Journal of Fluorine Chemistry* 86 (1), pp. 77-80
78. Yavari, I., Baharfar, R. (1997) Vinyltriphenylphosphonium salt mediated one-pot synthesis of functionalized 3-(triphenylphosphoranylidene)butyrolactones. *Tetrahedron Letters* 38 (24), pp. 4259-4262
79. Yavari, I., Tahmassebi, D., Nori-Shargh, D. (1997) AM1 study of conformational and configurational energy surfaces of 1,6-, 1,4-, and 3,4-diazacyclonona-1,2,4,5-tetraene. *Journal of Molecular Structure: THEOCHEM* 394 (1), pp. 33-40
80. Yavari, I., Taj-Khorshid, E., Nori-Shargh, D., Balalaie, S. (1997) Semiempirical SCF MO study of bowl-to-bowl inversion in corannulene and smaller circulenes. *Journal of Molecular Structure: THEOCHEM* 393 (1-3 SPEC. ISS.), pp. 163-166



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82. Yavari, I., Khorramabadi-Zad, A., Rashidi-Ranjbar, P., Fallah-Bagher-Shaidaii, H. (1997) Reaction between trimethyl phosphite and dimethyl acetylenedicarboxylate in the presence of 5,5-dimethylcyclohexane-1,3-dione. *Journal of Molecular Structure: THEOCHEM* 389 (1-2), pp. 155-158
83. Yavari, I., Ramazani, A. (1997) Triphenylphosphine catalyzed stereoselective synthesis of O-vinyloximes. *Synthetic Communications* 27 (8), pp. 1449-1454
84. Yavari, I., Ramazani, A. (1997) An efficient one-pot synthesis of dialkyl 3H-naphtho[2,1,b]pyran-2,3-dicarboxylates mediated by vinyl triphenylphosphonium salt. *Synthetic Communications* 27 (8), pp. 1385-1390

## 1998

85. Yavari, I., Mosslemin, M.H., Montahaei, A.R. (1998) Stereoselective Synthesis of Dialkyl 2-(3-Methoxy-1-oxoinden-2-yl)-3-(dimethylphosphonato)-butanedioates. *Journal of Chemical Research - Part S* (9), pp. 576-577
86. Yavari, I., Asghari, S., Samadi-Zadeh, M. (1998) A facile one-pot synthesis of functionalized N-hydroxypyrrole mediated by vinyltriphenylphosphonium salt. *Iranian Journal of Chemistry and Chemical Engineering* 17 (1), pp. 38-41
87. Yavari, I., Islami, M.R. (1998) Vinyltriphenylphosphonium Salt Mediated Serendipitous Synthesis of a Functionalized Pyrroloisindole Derivative. New Synthesis of Trimethyl 5-Arylpyrrole-2,3,4-tricarboxylates. *Journal of Chemical Research - Part S* (3), pp. 166-167
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89. Yavari, I., Tahmassebi, D. (1998) Configurational Properties of Eight-membered Rings Containing Two Ketenimine Units. *Journal of Chemical Research - Part S* (12), pp. 782-783
90. Yavari, I., Esmaili, A.A. (1998) New Synthesis of Tetraalkyl 2,3-Dihydro-5-oxopyrrolo[2,1-a]isindole-1,2,3,3-tetracarboxylates and Tetraalkyl 2,3-Dihydro-5-oxopyrrolo[2,1-a]pyrrolidine-1,2,3,3-tetracarboxylates Mediated by Vinyltriphenylphosphonium Salts. *Journal of Chemical Research - Part S* (11), pp. 714-715
91. Yavari, I., Nori-Shargh, D., Norouzi-Arasi, H., Hossaini-Tabatabaei, M.R. (1998) Configurational properties of cyclopentadeca-1,2,4,5,7,8,10,11,13,14-decaene. *Journal of Molecular Structure: THEOCHEM* 453 (1-3), pp. 59-64
92. Yavari, I., Tahmassebi, D. (1998) AMI study of conformational properties of five- to eight-membered ring ketenimines. *Journal of Molecular Structure: THEOCHEM* 452 (1-3), pp. 237-243

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95. Yavari, I., Maghsoodlou, M.T. (1998) A facile synthesis of stable 1,4-diionic phosphorus compounds. *Tetrahedron Letters* 39 (25), pp. 4579-4580
96. Yavari, I., Zonouzi, A., Hekmat-Shoar, R. (1998) Rotational energy barrier of the polarized carbon-carbon double bond in 3-(4-dimethylaminobenzylidene)pentane-2,4-dione. *Tetrahedron Letters* 39 (22), pp. 3841-3842
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98. Yavari, I., Nori-Shargh, D., Dadgar, M., Taherpour, A. (1998) AM1 study of the equilibrium geometries and racemization mechanisms in open-chain carbodiimides. Conformational and configurational energy surface of 1,3,4,6-tetraazacyclonona-1,2,4,5-tetraene. *Journal of Molecular Structure: THEOCHEM* 427 (1-3), pp. 185-190
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102. Yavari, I., Tahmassebi, D., Jadidi, K., Nori-Shargh, D., Balalaie, S. (1999) Semi-empirical and ab initio study of pericyclized naphthalene systems containing an eight-membered ring. *Journal of Molecular Structure: THEOCHEM* 489 (1), pp. 67-72
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