

## CURRICULUM VITAE

### PERSONAL

Name: Michael Orfanopoulos  
Place of Birth: Patras, Greece  
Affiliation: University of Crete, Department of Chemistry, Voutes, 71003 Heraklion,  
Crete, Greece.  
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**Position:** Professor

**Field of Research:** Reaction mechanisms, Physical Organic and Structural chemistry,  
Fullerene-based carbon nanostructures, Singlet oxygen chemistry.

### EDUCATION

B.Sc. 1971 Patras University  
M.Sc. 1976 University of Toledo, Department of Chemistry, USA.  
Ph.D. 1979 Case Western Reserve University, USA. (Organic Chemistry)

### AWARDS:

Fulbright Research Award (1993)

### PROFESSIONAL

1973-1979 Instructor, Department of Chemistry, University of Toledo and Case Western Reserve University  
1980-1981 Postdoctoral Fellow (with Prof. H. S. Mosher), Stanford University USA.  
1981-1985 Research Scientist at the National Centre of Scientific Research "Demokritos" Athens Greece.  
1984-1985 Research Scholar UCLA (Los Angeles ) with Prof. C. S. Foote  
1985-1989 Assistant Professor, Dept of Chemistry, University of Crete  
1989-1993 Associate Professor, Dept of Chemistry, University of Crete  
1993- present Professor, Dept of Chemistry, University of Crete

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| 2000 | Visiting Professor, Scripps Research Institute, La Jolla, California with Prof. K. C. Nicolaou, |
| 2006 | Visiting Professor, California Institute of Technology (Caltech), with Prof. R. H. Grubbs,      |

### RESEARCH INTEREST

- Fullerene based nanocarbon materials: Chemistry and Photochemistry.
- Photooxygenations involving singlet oxygen and polyoxometallates
- Mechanistic studies of reactive enophiles including triazolinedione (PTAD), tetracyano ethylene (TCNE) and Fullerene (C<sub>60</sub>, C<sub>56</sub>N).

### MAJOR FELLOWSHIPS

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|-----------|---|
| 1966-1968 | Greek National Fellowship (IKY)                         |
| 1973-1979 | Teaching and Research Fellow, Univ. of Toledo and CWRU. |

### MAJOR MEMBERSHIPS

Chemical Society of Greece and American Chemical Society

### ADMINISTRATIVE POSITIONS

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| 1989-1992 | Member of the Research Committee at the Univ. of Crete.  |
| 1994-1998 | Chairperson of the Dept. of Chemistry, Univ. of Crete  |
| 1985-     | Member of the Graduate Committee of the Dept. of Chemistry   |
| 1998-     | Scientific Director of the M.S's Graduate Program, "Synthesis and Isolation of Natural Products with biological Activity" Dept. of Chemistry |
| 1998-2004 | Member of the National Scientific Committee for the recognition and confirmation of foreign degrees (BS, M.Sc, Ph.D) in chemistry.           |
| 2003-     | Member of the International Scientific Committee of "European Society of Organic Chemistry" (ESOC).  |

### PUBLICATIONS:

- Over 100 Original articles (see list of publications)
- 4 Review articles in books
- 1 Translation of a text-book in Organic Chemistry (co-authoring)

### PRESENTED PAPERS IN VARIOUS CONFERENCES:

Over 60

## SERVICE AS A RESEARCH ADVISOR

Number of graduate students having received degrees under research guidance

M.Sc. – 13

Ph.D. – 10

## PUBLICATIONS

1. M. G. Adlington, M. Orfanopoulos and J. L. Fry *Tetrahedron Lett.* 2955 (1976). "A Convenient One-Step Synthesis of Hydrocarbons from Alcohols Through Use of the Organosilane-Boron Trifluoride Reducing System."
2. J. L. Fry, M. Orfanopoulos, M. G. Adlington, W. R. Dittman Jr. and S. B. Silverman, *J. Org. Chem.*, 43, 374 (1978). "Reduction of Aldehydes and Ketones to Alcohols and Hydrocarbons Through Use of the Organosilane-Boron Trifluoride System."
3. M. Orfanopoulos, Sr. M. B. Grdina and L. M. Stephenson, *J. Amer. Chem. Soc.*, 101, 275 (1979). "Site Specificity in the Singlet Oxygen-Trisubstituted Olefin Reaction."
4. Sr. M. B. Grdina, M. Orfanopoulos and L. M. Stephenson *J. Org. Chem.*, 44, 2936 (1979). "A Convenient Synthetic Sequence for the Stereospecific Labelling of Olefins in the Allylic Positions."
5. Sr. M. B. Grdina, M. Orfanopoulos and L. M. Stephenson *J. Amer. Chem. Soc.*, 101, 3111, (1979). "The Stereochemical Dependence of Isotope Effects in the Singlet Oxygen/Olefin Reaction."
6. Sr. M. B. Grdina, M. Orfanopoulos and L. M. Stephenson *Tetrahedron Lett.* 4351 (1979). "Concerning Zwitterionic Peroxide or Diradical Intermediates in the Singlet Oxygen-Olefin Ene-Reaction."
7. M. Orfanopoulos and L. M. Stephenson *J. Amer. Chem. Soc.*, 102, 1417 (1980). "The Stereochemistry of the Singlet Oxygen-Olefin Ene-Reaction."
8. L. M. Stephenson, Mary Jo Grdina and M. Orfanopoulos *Acc. Chem. Res.*, 13, 419 (1980). "The Mechanism of the Ene Reaction between Singlet Oxygen and Olefins."
9. L. M. Stephenson and M. Orfanopoulos *J. Org. Chem.*, 46, 2200 (1981). "Changes in the Ene-Reaction Mechanisms with Lewis Acid Catalysts."
10. J. L. Fry, S. B. Silverman and M. Orfanopoulos *Org. Synth.*, 60, 108, (1981). "Reduction of m-Nitroacetophenone to m-Nitrophenylethane."
11. M. Orfanopoulos *J. Chem. Res. (S)*, 188, (1982). "Labelling of Olefins in Vinyl Position Through the Use of Triphenylalkylphosphonium Halides."
12. M. Orfanopoulos and C. S. Foote *Tetrahedron Lett.* 5991 (1985). "Regioselective Reaction of Singlet Oxygen with  $\alpha, \beta$ -Unsaturated Esters."
13. T. Makino, M. Orfanopoulos, T. P. You, B. Wu, C. W. Mosher, H. S. Mosher *J. Org. Chem.*, 50, 5357 (1985). "Chiral Benzhydrol-2,3,4,5,6-d.""
14. M. Orfanopoulos and C. S. Foote, *Free Rad. Res. Comms.* 2, 321 (1987). "The Ene Reaction of Singlet Oxygen with Olefins."
15. M. Orfanopoulos, C. S. Foote and I. Smonou *Tetrahedron Lett.*, 28, 15, (1987). "Stereochemical Dependence of Isotope Effects in the Ene Reaction of N-Phenyl-1,2,4-triazoline-3,5-dione with Isomers of 2-Butene-d<sub>3</sub>."

16. M. Orfanopoulos and I. Smonou *Synth. Comm.*, 18, 833 (1988). "Selective Reduction of Diaryl or Aryl Alkyl Alcohols in the Presence of Primary Hydroxyl or Ester Groups by Etherated Boron Trifluoride-Triethylsilane System."
17. I. Smonou, M. Orfanopoulos and C. S. Foote *Tetrahedron Lett.*, 29, 2769 (1988). "Reaction of 4-Phenyl-1,2,4-triazoline-3,5-dione with Substituted Indenes."
18. M. Orfanopoulos and C. S. Foote *J. Am. Chem. Soc.*, 110, 6583 (1988). "Intermediate in the Ene Reaction of Singlet Oxygen with 1, 4-Diphenyl-cis-2-Butene and 2-Butene".
19. I. Smonou and M. Orfanopoulos *Tetrahedron Lett.*, 29, 5793 (1988). "Stereoisotopic Study of the Reduction of 1-Phenylethanol by Etherated Boron Trifluoride-Triethylsilane System".
20. M. Orfanopoulos, M. Stratakis and Y. Elemen *Tetrahedron Lett.*, 30, 4875 (1989). "Regioselective Reaction of Singlet Oxygen with cis-Alkenes".
21. Y. Elemen, M. Stratakis and M. Orfanopoulos *Tetrahedron Lett.*, 30, 6903 (1989). "Reactions of Triazolinediones with cis-Alkenes. A Regioselective Ene Reaction".
22. M. Orfanopoulos, I. Smonou and C. S. Foote, *J. Am. Chem. Soc.* 112, 3607 (1990) "Intermediate in the Ene Reactions of Singlet Oxygen and N-Phenyl -1,2,4-Triazoline- 3,5- Dione with Olefins."
23. I. Smonou and M. Orfanopoulos, *Synthet. Comm.* 20, 1387 (1990) ,"Convenient Synthetic Sequence for the Preparation of Indanones".
24. M.Orfanopoulos, M. Stratakis and Y. Elemen, *J. Am. Chem. Soc.* 112, 6417 (1990). "Geminal Selectivity of Singlet Oxygen Ene Reactions. The non Bonding Large Group Effect."
25. M. Orfanopoulos, Y. Elemen, M. Stratakis *Tetrahedron Lett.*, 31, 5775 (1990). "Reactions of Triazolinedione With Alkenes. A Remarkable Geminal Selectivity".
26. M. Stratakis, M. Orfanopoulos, and C. S. Foote, *Tetrahedron Lett.*, 32, 863, (1991) "Nucleophilic Oxygen Transfer from a Peroxide to Phosphites".
27. M. Orfanopoulos, Y. Elemen, M. Stratakis and F. Jensen, *J. Am. Chem. Soc.* 113, 3180 (1991). "Do Rotational Barriers Dictate the Regioselectivity in the Ene Reaction of Singlet Oxygen and Triazolinedione with Alkenes?"
28. Y. Elemen, and M. Orfanopoulos, *Tetrahedron Lett.*, 32, 2667 (1991) "Triazolinedione Additions to Alkenes in Protic Solvents. A Remarkable Temperature Dependence of Competing Ene to Methanol Adduct Reactions".
29. A. G. Coutsolelos, M. Orfanopoulos and D. L. Ward, *Polyedron* 10, 885 (1991). "Synthesis and Properties of Fluorothallium (III) Porphyrins. X-Ray Crystal Structure of Fluoro-(5, 10, 15, 20- Tetraphenylporphyrinato)Thallium (III)".
30. M.Orfanopoulos and M.Stratakis, *Tetrahedron Lett.*, 32, 7321, (1991)" Solvent Effects on the Side Selectivity of Singlet Oxygen with a,b- Unsaturated Esters. New Evidence for a Peroxide Intermediate".
31. Y. Elemen, and M. Orfanopoulos, *J. Am. Chem. Soc.* 114, 11007, (1992) "Quantum Mechanical Tunneling in the Ene Reaction of Triazolinedione with Sterically Hindered Alkenes".
32. M. Stratakis, M. Orfanopoulos, *Synthet. Comm.* 23, 425, (1993). "Regioselective Formation of Cyclic and Allylic Hydroperoxides"
33. M. Orfanopoulos, S. Kambourakis, *Tetrahedron Lett.* 35, 1945, (1994), "Fullerene C<sub>60</sub> and C<sub>70</sub> Photosensitized Oxygenation of Olefins."
34. M. Orfanopoulos, S. Kambourakis, *Tetrahedron Lett.*, 36, 435, (1995) , "Chemical Evidence of Singlet Oxygen Production from C<sub>60</sub> and C<sub>70</sub> in Aqueous and Other Polar Media."

35. M. Stratakis, M. Orfanopoulos, *Tetrahedron Lett.*, 36, 4291, (1995), "Anti "cis Effect" selectivity in the Reaction of Singlet Oxygen with Trisubstituted Alkenes".
36. I. Smonou, S. Khan, C. S. Foote, Y. Elemen, I. Mavridis, A. Pantidou, M. Orfanopoulos, *J. Am. Chem. Soc.* 117, 7081 (1995) Reactions of Phenyltriazolinedione with Alkenes. Stereochemistry and Methanol Adducts to Aziridinium Imide Intermediates"
37. M. Stratakis, M. Orfanopoulos, J. S. Chen, C. S. Foote, *Tetrahedron Lett.*, 37, 4105, (1996) "Reaction Profile of the Photooxygenation of Trisubstituted Alkenes"
38. R. K. Mirsa, N. P. Mirsa, M. Orfanopoulos, S. Kambourakis, D. F. Ganotakis, *Plant Science*, 115, 151, (1996) Generation and Trapping of Singlet Oxygen During Strong Illumination of a Photosystem II Core Complex.
39. G. Vassilikogiannakis, M. Stratakis, G. J. Karabatsos, M. Orfanopoulos, 33, 993, (1996), *J. Heter. Chem.* "Mechanistic Studies in the Reaction of 4-Phenyl-1, 2, 4-triazoline-3, 5-dione with 2, 5-Dimethyl-2, 4-hexadiene.
40. G. Vassilikogiannakis, M. Orfanopoulos, *Tetrahedron Lett.*, 37, 3075, (1996) "Remote  $\alpha$ -Secondary Isotope Effect in the Reaction of Tetracyanoethylene with 2, 5-dimethyl-2, 4-hexadiene. A Step-Wise Mechanism."
41. Yiannis Angelis, Xiaojun Zhang and M. Orfanopoulos, 37, 5991, (1996), *Tetrahedron Lett.*, "Secondary Isotope Effects in Dioxirane Epoxidations. Synchronous or Step-Wise Mechanism?"
42. M. Stratakis, M. Orfanopoulos, C. S. Foote, *Tetrahedron Lett.*, 37, 7159, (1996)"Solvent Effects in the Stereoselectivity of the Ene Reaction of Singlet Oxygen with Allylic Alcohols".
43. M. Stratakis, M. Orfanopoulos. *Tetrahedron Lett.*, 38, 1067, (1997) "Regioselectivity in the Ene Reaction of Singlet oxygen With Alkenes Bearing an Electron Withdrawing Group at  $\beta$ -Position."
44. Yiannis Angelis, M. Orfanopoulos, *J. Org. Chem.* 62, 6083, (1997)"A Reinvestigation of the of the Structure of the Transition State in Peracid Epoxidations and  $\beta$ -and  $\gamma$ Secondary Isotope Effects"
45. G. Vassilikogiannakis, M. Orfanopoulos, *J. Am. Chem. Soc.* 119, 7394, (1997) "Stereochemistry and Isotope Effects of the [2+2] Photocycloadditions of Arylalkenes to C<sub>60</sub>. A Stepwise Mechanism"
46. G. Vassilikogiannakis, M. Orfanopoulos, *Tetrahedron Lett.*, 38, 4323, (1997) "[2+2] Photocycloadditions of  $\beta$ -4-Propenylanisole to C<sub>60</sub>. A Step-Wise Mechanism."
47. Y. Elemen, M. Stratakis and M. Orfanopoulos *Tetrahedron Lett.*, 38, 6437, (1997)"An Interplay in the Regioselectivity Induced by Non Bonding Interactions, in the ene Reaction of Singlet Oxygen and Triazolinediones with Tetrasubstituted Alkenes"
48. M. Stratakis, M. Orfanopoulos, C. S. Foote, *J. Org. Chem.* 63, 1315, (1998) "Reactions of Singlet Oxygen and N-Phenyltriazolinedione with  $\beta$ , $\gamma$ -Dimethylstyrene. Exceptional Syn Selectivity in the Ene Products"
49. M. Stratakis, G. Vassilikogiannakis, M. Orfanopoulos, *Tetrahedron Lett.*, 39, 2393, (1998) "Diastereoselective Ene Reaction of Triazoline diones With Chiral Allylic Alcohols. Evidence for a Hydroxyl-Enophile Steering Effect".
50. G. Vassilikogiannakis, M. Stratakis, M. Orfanopoulos, *J. Org. Chem.* 63, 6390, (1998) "Primary and Secondary Isotope Effects in the Photooxidation of 2,5-Dimethyl-2,4-hexadiene. Elucidation of the Energetic Reaction Profile"
51. G. Vassilikogiannakis, N Chronakis, M. Orfanopoulos, *J. Am. Chem. Soc.* 120, 9911, (1998) "A New [2+2] Functionalization of C<sub>60</sub> with Alkyl-1,3-Butadienes: A Mechanistic Approach. Stereochemistry and Isotope Effects"

52. G. Vassilikogiannakis, M. Orfanopoulos, *Tetrahedron Lett.*, 39, 8891, (1998) "A Mechanistic Comparison Between [2+2] and [4+2] Cycloadditions of Tetracyanoethylene to 2,7-Dimethyl-2,trans-4, 6-octatriene. A Very Remote Secondary Isotope Effect"
53. G. Vassilikogiannakis, M. Stratakis, M. Orfanopoulos, C. S. Foote *J. Org. Chem.* 64, 4130, (1999) "Stereochemistry in the Ene Reactions of Singlet Oxygen and Triazolinediones with Allylic Alcohols. A Mechanistic Comparison.
54. G. Vassilikogiannakis, M. Orfanopoulos, *J. Org. Chem.* 64, 3392, (1999) "Regio- and Stereoselectivity of the [2+2] Photocycloaddition of Acyclic Enones to C<sub>60</sub>".
55. N. Chronakis, M. Orfanopoulos, *Org. Lett.* 1, 1909, (1999) "Ene Reaction of Arylallyl Alkenes with C<sub>60</sub>. A Mechanistic Approach."
56. M. Stratakis, M. Orfanopoulos, *Tetrahedron* 56, 1595 (2000), Review. "Regioselectivity in the Ene Reaction of Singlet Oxygen with Alkenes"
57. M. Hatzimarinaki, G. Vassilikogiannakis, M. Orfanopoulos, *Tetrahedron Lett.*, 41, 4667, (2000) "Stereochemistry and Steric Isotope Effect on the [2 + 2] Photocycloaddition of □□Dimethyl-p-Methoxystyrene to C<sub>60</sub>: The Nature of the Transition State Structures"
58. G. Vassilikogiannakis, Y. Elemen, M. Orfanopoulos, *J. Am. Chem. Soc.* 122, 9540, (2000) "Stereochemistry of the Triazolinedione-Alkene Ene reaction: A Stereospecific Suprafacial Transformation"
59. G. Vassilikogiannakis, M. Stratakis, M. Orfanopoulos, *Org. Lett.* 2, 2245, (2000) "Isotope Effects and *syn* Selectivity in the Ene Reaction of Triazolinedione with Conjugated Enones: Aziridinium Imide or an Open Intermediate Mechanism? "
60. G. Vassilikogiannakis, M. Hatzimarinaki, M. Orfanopoulos, *J. Org. Chem.* 65, 8180, (2000) Mechanism of the [2 + 2] Photocycloaddition of Fullerene C<sub>60</sub> with Styrenes
61. N. Chronakis, M. Orfanopoulos, *Tetrahedron Lett.* in 42, 1201, (2001) "Concerted Diels-Alder Reaction Between Anthracene and C<sub>60</sub> "
62. N. Chronakis, M. Orfanopoulos, *Org. Lett.* 3, 345, (2001) "[4+2] Cycloadditions of Rigid *s-cis* Dienes to C<sub>60</sub>. A Synchronous Diels-Alder Reaction"
63. Y. S. Angelis, N.S. Hatzakis, I. Smonou and M. Orfanopoulos, *Tetrahedron Lett.*, 42, 3753, (2001) "Oxidation of Benzyl Alcohols by Dimethyldioxirane. The Question of Concerted versus stepwise Mechanisms Probed by Kinetic Isotope Effects."
64. M. Stratakis, M. Hatzimarinaski, M. Orfanopoulos, *J. Org. Chem.* 66, 3682, (2001) "Stereochemistry in the reaction of 4-methyl-1,2,4-triazoline-3,5-dione (MTAD) with □□-dimethyl-p-methoxystyrene. Are open biradicals the reaction intermediates?"
65. N. Chronakis, G. C. Vougioukalakis, M. Orfanopoulos, *Org. Lett.* 4, 945, (2002) "Synthesis and Self Photooxygenation of Alkenyl-Linked [60]Fullerene Derivatives. A Regioselective Ene Reaction"
66. N. Chronakis, G. Froudakis, M. Orfanopoulos, *J. Org. Chem.* 67, 3284, (2002), "Stereochemistry of the [4+2] Cycloadditions of *trans,trans*- and *cis,trans*-2,4-Hexadiene to C<sub>60</sub>"
67. W. Adam, O. Krebs, M. Orfanopoulos, M. Stratakis, *J. Org. Chem.* 67, 8395, (2002), "Control of Regioselectivity by the lone Substituent through Steric and Electronic Effects in the Nitrosoarene Ene Reaction of Deuterium-Labeled Trisubstituted Alkenes"
68. W. Adam, N. Bottke, O. Krebs, I. Lykakis, M. Orfanopoulos, M. Stratakis, *J. Am. Chem. Soc.* 124, 14403, (2002) "Ene Reactions of Singlet Oxygen, Triazolinedione, and Nitrosoarene with Chiral Deuterium-Labeled Allylic Alcohols: The Interdependence of Diastereoselectivity and Regioselectivity Discloses Mechanistic Insights into the Hydroxy-Group Directivity"

69. G. Vassilikogiannakis, M. Stratakis, M. Orfanopoulos, *ARKIVOC*, 9-16 Part 13, (2002) "Primary and Secondary H/D Isotope Effects in the Addition of Triazolinedione to 2, 5-dimethyl-2,4-hexadiene. Mechanistic Insights into the Reactions Pathways."
70. M. N. Alberti, G. C. Vougioukalakis, M. Orfanopoulos, *Tetrahedron Lett.*, 44, 903, (2003) "Electronic Effects in the Regioselectivity of the Singlet Oxygen and 4-Methyl-1,2,4-triazoline-3,5-dione Ene Reactions with Isobutenylarenes"
71. W. Adam, O. Krebs, M. Orfanopoulos, M. Stratakis, G. C. Vougioukalakis, *J. Org. Chem.* 68, 2420 (2003) "Intramolecular and Intermolecular Kinetic Isotope Effect (KIE) in the Nitroso ene Reaction: Experimental Evidence for Reversible Intermediate Formation"
72. I. N. Lykakis, S. Lestakis, M. Orfanopoulos, *Tetrahedron Lett.*, 44, 6247, (2003) "9, 10-Dicyanoanthracene photosensitized oxidation of aryl alkanols: evidence for an electron transfer mechanism"
73. I. N. Lykakis, C. Tanielian, M. Orfanopoulos, *Org. Lett.* 5, 2875, (2003) "Decatungstate Photocatalyzed Oxidation of Aryl Alkanols. Electron Transfer or Hydrogen Abstraction Mechanism?"
74. J. Vakros, G. Panagiotou, C. Kordoulis, A. Lykourghiotis, G. C. Vougioukalakis, Y. S. Angelis, M. Orfanopoulos, *Catal. Lett.* 89, 269, (2003) "Fullerene C<sub>60</sub> Supported on Silica and Alumina"
75. G. C. Vougioukalakis, M. Orfanopoulos, *Tetrahedron Lett.*, 44, 8649, (2003) "Functionalisation of Azafullerene C<sub>59</sub>N. Radical Reactions with 9-substituted Fluorenes"
76. G. C. Vougioukalakis, N. Chronakis, M. Orfanopoulos, *Org. Lett.*, 5, 4603, (2003) "Addition of Electron-Rich Aromatics to Azafullerenium Carbocation. A Stepwise Electrophilic Substitution Mechanism"
77. G. C. Vougioukalakis, Y. S. Angelis, M. Orfanopoulos, J. Vakros, G. Panagiotou, C. Kordoulis, A. Lykourghiotis, *Synlett.* 971, (2004) "[60]Fullerene Supported on Silica and g-Alumina Sensitized Photooxidation of Olefins. Chemical Evidence for Singlet Oxygen and Electron Transfer Mechanism"
78. G. C. Vougioukalakis, K. Prassides, M. Orfanopoulos, *Org. Lett.* 6, 1245, (2004) "Novel Open-Cage Fullerenes Having a 12-Membered-Ring Orifice: Removal of the Organic Addends from the Rim of the Orifice"
79. Georgios C. Vougioukalakis, Kosmas Prassides, Josep M. Campanera, Malcolm I. Heggie, and Michael Orfanopoulos *J. Org. Chem.*, 69, 4524, (2004) "Open-Cage Fullerene Derivatives with 15-Membered-Ring Orifices"
80. Ioannis N. Lykakis and Michael Orfanopoulos *Synlett.* 2123, (2004) "Lone Selectivity of the Decatungstate Sensitized Photooxidation of 1-Substituted Cycloalkenes"
81. Ioannis N. Lykakis and Michael Orfanopoulos, *Tetrahedron Lett.* 45, 7645, (2004), "Photooxidation of Aryl Alkanes by Decatungstate/Triethylsilane System in the Presence of Molecular Oxygen"
82. Georgios C. Vougioukalakis, Michael Orfanopoulos *J. Am. Chem. Soc.*, 126, 15956, (2004) "Photoinduced Electron Transfer Reactivity of Aza[60]fullerene. Three Discrete Functionalization Pathways with a Single Substrate"
83. Georgios C. Vougioukalakis, Michael Orfanopoulos, (*account*) 713-731, *Synlett.* (2005)
84. Ioannis N. Lykakis and Michael Orfanopoulos, *Tetrahedron Lett.* 46, 7485, (2005), "Deuterium kinetic isotope effects in homogeneous decatungstate catalyzed photooxygenation of 1,1-diphenylethane and 9-methyl-9H-fluorene: evidence for a hydrogen abstraction mechanism"
85. M. Hatzimarinaki, Manolis Roubelakis, Michael Orfanopoulos *J. Am. Chem. Soc.*, 127, 14182, (2005) "Biradical Intermediate in the [2 + 2] Photocycloaddition of Dienes and Alkenes to [60]Fullerene"

86. Manolis Roubelakis, Georgios C. Vougioukalakis, Michael Orfanopoulos, *Org. Lett.* 8, 39 (2006) "Solvent-Dependent Changes in the Ene Reaction of RTAD with Alkenes: The Cyclopropyl Group as a Mechanistic Probe"
87. Georgios C. Vougioukalakis, Ioannis N. Lykakis, M. Hatzimarinaki and Michael Orfanopoulos, *J. Org. Chem.*, 71, 829, (2006), "Reaction of Aza[60]fullerene Radical with Diphenylmethanes and Fluorenes: A Mechanistic Approach"
88. M. Hatzimarinaki, Michael Orfanopoulos *Org. Lett.* 8, 1775 (2006), "Novel Methodology For The Preparation of Five-, Seven-, and Nine-Membered Fused Rings on C<sub>60</sub>"
89. Mariza N. Alberti and Michael Orfanopoulos, *Tetrahedron*, 62, 10660, (2006), "Stereo-electronic and solvent effects on the allylic oxyfunctionalization of alkenes with singlet oxygen"
90. Ioannis N. Lykakis, Georgios C. Vougioukalakis and Michael Orfanopoulos, *J. Org. Chem.*, 71, 8740, (2006), "Homogeneous Decatungstate Catalyzed Photooxygenation of Tetrasubstituted Alkenes: A Deuterium Kinetic Isotope Effect Study"
91. Vrantza, D.; Kaloudis, P.; Leondiadis, L.; Gimisis, T.; Vougioukalakis, G. C.; Orfanopoulos, M.; Gasparutto, D.; Cadet, J.; Encinas, S.; Paris, C.; Miranda, M. A. *Helv. Chim. Acta*, 89, 2371-2386, (2006), "Modification of the Guanine Base with Photolabile *N*-Hydroxypyridine-2-thione Group: Monomer Synthesis, Oligonucleotide Elaboration and Photochemical Studies."
92. Sotirios G. Kotsiris, Yury V. Vasil'ev, Alexey V. Streletskii, Ming Han, Lewis P. Mark, Olga V. Boltanina, Nikos Chronakis, Michael Orfanopoulos, Hartmut Hungerbühler, Thomas Drewello, *Eu. J. M. S.*, 12, 397, (2006), Application and Evaluation of Solvent-free Matrix-assisted Laser Desorption/Ionization Mass Spectroscopy for the analysis of Derivatized Fullerenes
93. Charles Tanielian, Ioannis N. Lykakis, Rachid Seghrouchni, Michael Orfanopoulos and Fabien Cougnon, *J. Mol. Cat. A*, 262, 170-175, (2007), "Mechanism of decatungstate photocatalyzed oxygenation of aromatic alcohols. Part I. Continuous photolysis and laser flash photolysis studies"
94. Ioannis N. Lykakis, Charles Tanielian, Rachid Seghrouchni and Michael Orfanopoulos, *J. Mol. Cat. A*, in 262, 176, (2007) "Mechanism of Decatungstate Photocatalyzed Oxygenation of Aromatic Alcohols. Part II. Kinetic Isotope Effects Studies."
95. Manolis Roubelakis, Georgios C. Vougioukalakis, Michael Orfanopoulos, *J. Org. Chem.*, 72, 6526-6533, (2007), "Open-Cage Fullerene Derivatives Having 11-, 12- and 13-Membered-Ring Orifices: Chemical Transformations of the Organic Addends on the Rim of the Orifice"
96. Manolis M. Roubelakis, Yasujiro Murata, Koichi Komatsu, and Michael Orfanopoulos, *J. Org. Chem.*, 72, 7042-7045, (2007) "Efficient Synthesis of Open-Cage Fullerene Derivatives Having 16-Membered-Ring Orifices"
97. Manolis D. Tzirakis, Ioannis N. Lykakis, George Panagiotou, Kyriakos Bourikas, Alexis Lycourghiotis, Christos Kordulis, and Michael Orfanopoulos, *J. Cat.*, 252, 178-189, (2007), Decatungstate "Catalyst Supported on Silica and  $\gamma$ -Alumina: Efficient Photocatalytic Oxidation of Benzyl Alcohols"
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