

CURRICULUM VITAE

PERSONAL

Name: Michael Orfanopoulos
Place of Birth: Patras, Greece, 31/05/1948.
Affiliation: University of Crete, Department of Chemistry, Voutes, 71003 Heraklion, Crete, Greece.
Phone(+30)2810-545030 Facsimile (+30)2810-545001
E-mail morfanop@uoc.gr
<http://www.chemistry.uoc.gr/organic/orfanopoulos.html>
Position: Emeritus Professor since 2016

Field of Research: Physical Organic and Structural chemistry, Reaction mechanisms, 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)

MAJOR FELLOWSHIPS

1966-1968 Greek National Fellowship (IKY)
1973-1979 Teaching and Research Fellow, Univ. of Toledo and CWRU.
1993 Fulbright Fellowship,

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- 2016 Professor, Dept of Chemistry, University of Crete
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 (C₆₀, C₅₆N).

MAJOR MEMBERSHIPS

- Associate member of IUPAC: Organic and Biomolecular Chemistry Division, 2012-2013 (<http://www.iupac.org>)
- ARKIVOC Editorial Board of Referees
- International Member of the Advisory Board of ChemPlusChem
- Chemical Society of Greece and American Chemical Society- Division of Organic Chemistry

ADMINISTRATIVE POSITIONS

1989-1992 Member of the Research Committee at the Univ. of Crete.

1994-1998	Chairperson of the Dept. of Chemistry, Univ. of Crete
1985-2016	Member of the Graduate Studies Committee of the Dept. of Chemistry
1998-2016	Scientific Director of the M.Sc's Graduate Program, "Synthesis and Isolation of Natural Products with Biological Activity" Dept. of Chemistry, UC.
1998-2004	Member of the National Scientific Committee for the recognition and confirmation of foreign degrees (BS, M.Sc, Ph.D) in chemistry.
2003-2011	Member of the International Scientific Committee of "European Symposium of Organic Chemistry" (ESOC).
2010-2014	Chairperson of the Dept. of Chemistry, Univ. of Crete

PUBLICATIONS:

Over 128 Original articles, h 30, No citations: 3,465.

4 Review articles in books

- Orfanopoulos, M.; Vougioukalakis, G. E.; Stratakis, M. The chemistry of peroxides, Editor Z. Rappoport, Wiley Eds. 2006 "Selective formation of allylic hydroperoxides via singlet oxygen ene reaction".
- Alberti, M. N., Tzirakis, M. D., Orfanopoulos, M.; Book chapter for the Science of Synthesis, volume 38, chapter 38.9 Thieme Eds 2008, "Larger-Ring Cyclic Peroxides and Endoperoxides"
- M. Orfanopoulos and M. D. Tzirakis (2012). Radical Chemistry on Fullerenes in Encyclopedia of Radicals in Chemistry, Biology and Materials, C. Chatgililoglu and A. Studer (eds). John Wiley & Sons Ltd, Chichester, UK, pp 2171-2196.
- CRC Handbook of Organic Photochemistry and Photobiology Title: Singlet Oxygen-Mediated Allylic Oxidation. Authors: Mariza N. Alberti and Michael Orfanopoulos* (in press) Laboratory of Organic Chemistry, Department of Chemistry, University of Crete, 71003-Voutes, Heraklion, Crete, Greece
- Translation of a text-book in Organic Chemistry <ORGANIC CHEMISTRY-MCMURRY-Fourth Edition>(co-authoring)

PRESENTED PAPERS IN VARIOUS CONFERENCES: Over 75

SERVICE AS A RESEARCH ADVISOR

Number of graduate students having received degrees under research guidance

M.Sc. – 14

Ph.D. – 11

PUBLICATIONS

1. M. G. Adlington, M. Orfanopoulos and J. L. Fry, *Tetrahedron Lett.* 17, 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. Am. 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 Labeling of Olefins in the Allylic Positions."
5. Sr. M. B. Grdina, M. Orfanopoulos and L. M. Stephenson, *J. Am. 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.*, 20, 4351, (1979). "Concerning Zwitterionic Peroxide or Diradical Intermediates in the Singlet Oxygen-Olefin Ene-Reaction."
7. M. Orfanopoulos and L. M. Stephenson, *J. Am. Chem. Soc.*, 102, 1417, (1980). "The Stereochemistry of the Singlet Oxygen-Olefin Ene-Reaction."
8. L. M. Stephenson, M. J. 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.*, 26, 5991, (1985). "Regioselective Reaction of Singlet Oxygen with α,β -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_5 ."
14. M. Orfanopoulos and C. S. Foote, *Free Rad. Res. Commun.* 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_3 ."
16. M. Orfanopoulos and I. Smonou, *Synth. Commun.*, 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, *Synth. Commun.*, 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 Nonbonding Large Group Effect."
25. M. Orfanopoulos, Y. Elemen and 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 α,β -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 and M. Orfanopoulos, *Synth. Commun.*, 23, 425, (1993). "Regioselective Formation of Cyclic and Allylic Hydroperoxides."
33. M. Orfanopoulos and S. Kambourakis, *Tetrahedron Lett.*, 35, 1945, (1994). "Fullerene C₆₀ and C₇₀ Photosensitized Oxygenation of Olefins."
34. M. Orfanopoulos and S. Kambourakis, *Tetrahedron Lett.*, 36, 435, (1995). "Chemical Evidence of Singlet Oxygen Production from C₆₀ and C₇₀ in Aqueous and Other Polar Media."
35. M. Stratakis and 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 and 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 and 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 and 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 and M. Orfanopoulos, *J. Heter. Chem.*, **33**, 993, (1996). "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 and M. Orfanopoulos, *Tetrahedron Lett.*, **37**, 3075, (1996). "Remote α -Secondary Isotope Effect in the Reaction of Tetracyanoethylene with 2,5-dimethyl-2,4-hexadiene. A Stepwise Mechanism."
41. Y. Angelis, X. Zhang and M. Orfanopoulos, *Tetrahedron Lett.*, **37**, 5991, (1996). "Secondary Isotope Effects in Dioxirane Epoxidations. Synchronous or Stepwise Mechanism?"
42. M. Stratakis, M. Orfanopoulos and 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 and M. Orfanopoulos, *Tetrahedron Lett.*, **38**, 1067, (1997). "Regioselectivity in the Ene Reaction of Singlet Oxygen With Alkenes Bearing an Electron Withdrawing Group at α -Position."
44. Y. Angelis and M. Orfanopoulos, *J. Org. Chem.*, **62**, 6083, (1997). "A Reinvestigation of the of the Structure of the Transition State in Peracid Epoxidations and α - and β -Secondary Isotope Effects."
45. G. Vassilikogiannakis and M. Orfanopoulos, *J. Am. Chem. Soc.*, **119**, 7394, (1997). "Stereochemistry and Isotope Effects of the [2+2] Photocycloadditions of Arylalkenes to C_{60} . A Stepwise Mechanism."
46. G. Vassilikogiannakis and M. Orfanopoulos, *Tetrahedron Lett.*, **38**, 4323, (1997). "[2+2] Photocycloadditions of 4-Propenylanisole to C_{60} . A Stepwise 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 and C. S. Foote, *J. Org. Chem.*, **63**, 1315, (1998). "Reactions of Singlet Oxygen and N-Phenyltriazolinedione with α,β -Dimethylstyrene. Exceptional syn Selectivity in the Ene Products."
49. M. Stratakis, G. Vassilikogiannakis and M. Orfanopoulos, *Tetrahedron Lett.*, **39**, 2393, (1998). "Diastereoselective Ene Reaction of Triazolinediones with Chiral Allylic Alcohols. Evidence for a Hydroxyl-Enophile Steering Effect."
50. G. Vassilikogiannakis, M. Stratakis and 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 and M. Orfanopoulos, *J. Am. Chem. Soc.*, 120, 9911, (1998). "A New [2+2] Functionalization of C₆₀ with Alkyl 1,3-Butadienes: A Mechanistic Approach. Stereochemistry and Isotope Effects."
52. G. Vassilikogiannakis and 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 and 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 and M. Orfanopoulos, *J. Org. Chem.*, 64, 3392, (1999). "Regio- and Stereoselectivity of the [2+2] Photocycloaddition of Acyclic Enones to C₆₀."
55. N. Chronakis, M. and Orfanopoulos, *Org. Lett.*, 1, 1909, (1999). "Ene Reaction of Arylallyl Alkenes with C₆₀. A Mechanistic Approach."
56. M. Stratakis and M. Orfanopoulos, *Tetrahedron*, 56, 1595 (2000), Review. "Regioselectivity in the Ene Reaction of Singlet Oxygen with Alkenes."
57. M. Hatzimarinaki, G. Vassilikogiannakis and M. Orfanopoulos, *Tetrahedron Lett.*, 41, 4667, (2000). "Stereochemistry and Steric Isotope Effect on the [2+2] Photocycloaddition of *a,b*-Dimethyl-*p*-methoxystyrene to C₆₀: The Nature of the Transition State Structures."
58. G. Vassilikogiannakis, Y. Elemes and 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 and 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 and M. Orfanopoulos, *J. Org. Chem.*, 65, 8180, (2000). "Mechanism of the [2+2] Photocycloaddition of Fullerene C₆₀ with Styrenes."
61. N. Chronakis and M. Orfanopoulos, *Tetrahedron Lett.*, 42, 1201, (2001). "Concerted Diels-Alder Reaction Between Anthracene and C₆₀."
62. N. Chronakis and M. Orfanopoulos, *Org. Lett.*, 3, 545, (2001). "[4+2] Cycloadditions of Rigid *s-cis* Dienes to C₆₀. 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. Hatzimarinaki and M. Orfanopoulos, *J. Org. Chem.*, 66, 3682, (2001). "Stereochemistry in the Reaction of 4-Methyl-1,2,4-triazoline-3,5-dione (MTAD) with *a,b*-Dimethyl-*p*-methoxystyrene. Are Open

Biradicals the Reaction Intermediates?"

65. N. Chronakis, G. C. Vougioukalakis and 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 C₆₀."
67. W. Adam, O. Krebs, M. Orfanopoulos and 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 and 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 and M. Orfanopoulos, *Arkivoc*, iii, 8, (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 and 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 and 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 and M. Orfanopoulos, *Tetrahedron Lett.*, 44, 6247, (2003). "9,10-Dicyanoanthracene Photosensitised Oxidation of Aryl Alkanols: Evidence for an Electron Transfer Mechanism."
73. I. N. Lykakis, C. Tanielian and 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 and M. Orfanopoulos, *Catal. Lett.* 89, 269, (2003). "Fullerene C₆₀ Supported on Silica and γ -Alumina Catalyzed Photooxidations of Alkenes."
75. G. C. Vougioukalakis and M. Orfanopoulos, *Tetrahedron Lett.*, 44, 8649, (2003). "Fuctionalisation of Azafullerene C₅₉N. Radical Reactions with 9-substituted Fluorenes."
76. G. C. Vougioukalakis, N. Chronakis and 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 J. Vakros, G. Panagiotou, C. Kordoulis, A. Lykourghiotis and M. Orfanopoulos, *Synlett*, 971, (2004). "[60]Fullerene Supported on Silica and γ -Alumina Sensitized Photooxidation of Olefins. Chemical Evidence for Singlet Oxygen and Electron Transfer Mechanism."

78. G. C. Vougioukalakis, K. Prassides and 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. G. C. Vougioukalakis, K. Prassides, J. M. Campanera, M. I. Heggie and M. Orfanopoulos, *J. Org. Chem.*, **69**, 4524, (2004). "Open-Cage Fullerene Derivatives with 15-Membered-Ring Orifices."
80. I. N. Lykakis and M. Orfanopoulos, *Synlett*, 2131, (2004). "Lone Selectivity of the Decatungstate Sensitized Photooxidation of 1-Substituted Cycloalkenes."
81. I. N. Lykakis and M. Orfanopoulos, *Tetrahedron Lett.*, **45**, 7645, (2004). "Photooxidation of Aryl Alkanes by Decatungstate/Triethylsilane System in the Presence of Molecular Oxygen."
82. G. C. Vougioukalakis and M. 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. G. C. Vougioukalakis and M. Orfanopoulos, *Synlett*, 713, (2005), Account. "Mechanistic Studies in Triazolinedione Ene Reactions."
84. I. N. Lykakis and M. Orfanopoulos, *Tetrahedron Lett.*, **46**, 7835, (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, M. M. Roubelakis and M. Orfanopoulos, *J. Am. Chem. Soc.*, **127**, 14182, (2005). "Biradical Intermediate in the [2+2] Photocycloaddition of Dienes and Alkenes to [60]Fullerene."
86. M. M. Roubelakis, G. C. Vougioukalakis, Y. S. Angelis and M. 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. G. C. Vougioukalakis, I. N. Lykakis, M. Hatzimarinaki and M. Orfanopoulos, *J. Org. Chem.*, **71**, 829, (2006). "Reaction of Aza[60]fullerene Radical with Diphenylmethanes and Fluorenes: A Mechanistic Approach."
88. M. Hatzimarinaki and M. Orfanopoulos, *Org. Lett.*, **8**, 1775 (2006). "Novel Methodology For The Preparation of Five-, Seven- and Nine-Membered Fused Rings on C₆₀."
89. M. N. Alberti and Michael Orfanopoulos, *Tetrahedron*, **62**, 10660, (2006). "Stereoelectronic and Solvent Effects on the Allylic Oxyfunctionalization of Alkenes with Singlet Oxygen."
90. I. N. Lykakis, G. C. Vougioukalakis and M. Orfanopoulos, *J. Org. Chem.*, **71**, 8740, (2006). "Homogeneous Decatungstate Catalyzed Photooxygenation of Tetrasubstituted Alkenes: A Deuterium Kinetic Isotope Effect Study."
91. D. Vrantza, P. Kaloudis, L. Leondiadis, T. Gimisis, G. C. Vougioukalakis, M. Orfanopoulos, D. Gasparutto, J. Cadet, S. Encinas, C. Paris, M. A. Miranda, *Helv. Chim. Acta*, **89**, 2371, (2006). "Modification of the Guanine Base with Photolabile *N*-Hydroxypyridine-2-thione Group: Monomer Synthesis, Oligonucleotide Elaboration and Photochemical Studies."
92. S. G. Kotsiris, Y. V. Vasil'ev, A. V. Streletskii, M. Han, L. P. Mark, O. V. Boltanina, N. Chronakis, M. Orfanopoulos, H. Hungerbuhler and T. Drewello, *Eur. J. Mass Spectrom.*, **12**, 397, (2006). "Application and Evaluation of Solvent-free Matrix-Assisted Laser Desorption/Ionization Mass Spectroscopy for the analysis of Derivatized Fullerenes."

93. C. Tanielian, I. N. Lykakis, R. Seghrouchni, M. Orfanopoulos and F. Cougnon, *J. Mol. Catal. A*, 262, 170, (2007). "Mechanism of Decatungstate Photocatalyzed Oxygenation of Aromatic Alcohols. Part I. Continuous Photolysis and Laser Flash Photolysis Studies."
94. I. N. Lykakis, C. Tanielian, R. Seghrouchni and M. Orfanopoulos, *J. Mol. Catal. A*, 262, 176, (2007). "Mechanism of Decatungstate Photocatalyzed Oxygenation of Aromatic Alcohols. Part II. Kinetic Isotope Effects Studies."
95. M. M. Roubelakis, G. C. Vougioukalakis, and M. Orfanopoulos, *J. Org. Chem.*, 72, 6526, (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. M. M. Roubelakis, Y. Murata, K. Komatsu and M. Orfanopoulos, *J. Org. Chem.*, 72, 7042, (2007). "Efficient Synthesis of Open-Cage Fullerene Derivatives Having 16-Membered-Ring Orifices."
97. M. D. Tzirakis, I. N. Lykakis, G. Panagiotou, K. Bourikas, A. Lycourghiotis, C. Kordulis and M. Orfanopoulos, *J. Catal.*, 252, 178, (2007). "Decatungstate Catalyst Supported on Silica and γ -Alumina: Efficient Photocatalytic Oxidation of Benzyl Alcohols."
98. M. D. Tzirakis and M. Orfanopoulos, *Org. Lett.*, 10, 873 (2008). "Decatungstate-Mediated Radical Reactions of C₆₀ with Substituted Toluenes and Anisoles: A New Photochemical Functionalization Strategy for Fullerenes."
99. M. N. Alberti and M. Orfanopoulos, *Org. Lett.*, 10, 2465 (2008). "The Cyclopropyl Group as a Hypersensitive Probe in the Singlet Oxygen Ene Reaction Mechanism."
100. G. C. Vougioukalakis, M. M. Roubelakis, M. N. Alberti and M. Orfanopoulos, *Chem. Eur. J.*, 14, 9696, (2008). "Solvent-Dependent Changes in the Triazolinedione-Alkene Ene Reaction Mechanism."
101. M. N. Alberti, G. Vassilikogiannakis and M. Orfanopoulos, *Org. Lett.*, 10, 3997, (2008). "Stereochemistry of the Singlet Oxygenation of Simple Alkenes: a Stereospecific Transformation "
102. M. D. Tzirakis and M. Orfanopoulos, *J. Am. Chem. Soc.*, 131, 4063, (2009). "Acyl Radical Reactions in Fullerene Chemistry: Direct Acylation of [60] Fullerene through an Efficient Decatungstate-Photomediated Approach."
103. M. N. Alberti and M. Orfanopoulos, *Org. Lett.*, 11, 1659, (2009). "Concerning the Reactivity of PTAD with Isomeric Dienes: The Mechanism of the Diels-Alder Cycloaddition."
104. M. D. Tzirakis, M. N. Alberti, L. C. Nye, T. Drewello and M. Orfanopoulos, *J. Org. Chem.*, 74, 5746, (2009). "One-step Synthesis of Fullerene Hydride C₆₀H₂ via Hydrolysis of Acylated Fullerenes."
105. M. D. Tzirakis, I. N. Lykakis and M. Orfanopoulos, *Chem. Soc. Rev.*, 38, 2609, (2009). "Decatungstate as an Efficient Photocatalyst in Organic Chemistry."
106. M. N. Alberti, G. C. Vougioukalakis and M. Orfanopoulos, *J. Org. Chem.*, 74, 7274, (2009). "Photosensitized Oxidations of Substituted Pyrroles: Unanticipated Radical-Derived Oxygenated Products."
107. I. N. Lykakis and M. Orfanopoulos, *Curr. Org. Chem.*, 13, 1737, (2009). "Decatungstate-Catalyzed Photooxygenation of S-2-Phenylbutane and Cumene via a Free Carbon-Radical Intermediate."

108. G. D. Panagiotou, M. D. Tzirakis, J. Vakros, L. Loukatzikou, M. Orfanopoulos, C. Kordulis and A. Lycourghiotis, *Appl. Catal. A*, 372, 16, (2010). "Development of [60]Fullerene Supported on Silica Catalysts for the Photo-Oxidation of Alkenes."
109. M. D. Tzirakis, J. Vakros, L. Loukatzikou, V. Amargianitakis, M. Orfanopoulos, C. Kordulis and A. Lycourghiotis, *J. Mol. Catal. A*, 316, 65, (2010), Editor choice paper. " γ -Alumina-Supported [60]Fullerene Catalysts: Synthesis, Properties and Applications in the Photooxidation of Alkenes."
110. Nye, L. C.; Tzirakis, M. D.; Orfanopoulos, M.; Drewello, T. *Chem. Phys. Lett.* 2010, 499, 209–212. "C60H2: Recovery and decline An investigation by MALDI mass spectrometry."
111. G. C. Vougioukalakis, M. M. Roubelakis and M. Orfanopoulos, *Chem. Soc. Rev.*, 39, 817, (2010). "Open-Cage Fullerenes: Towards the Construction of Nanosized Molecular Containers."
112. M. N. Alberti and M. Orfanopoulos, *Synlett*, 999, (2010). "Recent Mechanistic Insights in the Singlet Oxygen Ene Reaction."
113. G. C. Vougioukalakis, M. M. Roubelakis and M. Orfanopoulos, *J. Org. Chem.*, 75, 4124, (2010). "Radical Reactivity of Aza[60]fullerene: Preparation of Monoadducts and Limitations."
114. M. D. Tzirakis and M. Orfanopoulos, *Angew. Chem., Int. Ed. Engl.*, 49, 5891, (2010). "Photochemical Addition of Ethers to C-60: Synthesis of the Simplest [60]Fullerene/Crown Ether Conjugates."
115. M. N. Alberti and M. Orfanopoulos, *Chem. Eur. J.*, 16, 9414, (2010). "Unraveling the Mechanism of the Singlet Oxygen Ene Reaction: Recent Computational and Experimental Approaches."
116. Alberti, M. N.; Orfanopoulos, M. *Chem. Eur. J.* 2010, 16, 9414–9421 (Highlighted as Cover Picture). "Unraveling the Mechanism of the Singlet Oxygen Ene Reaction: Recent Computational and Experimental Approaches."
117. M. D. Tzirakis, M. N. Alberti and M. Orfanopoulos, *Chem. Commun.*, 46, 8228-8230 (2010). "Hydroxyalkylation of [60]fullerene: free radical addition of alcohols to C₆₀."
118. M. D. Tzirakis, M. N. Alberti and M. Orfanopoulos, *Org. Lett.* 13, 3364 (2011). "Photocycloaddition of Biscyclopropyl Alkenes to C60: An Unprecedented Approach towards cis-1 Tricyclic-Fused Fullerenes"
119. John Kyriakopoulos, Manolis D. Tzirakis, George D. Panagiotou, Mariza N. Alberti, Kostas S. Triantafyllidis, Sofia Giannakaki, Kyriakos Bourikas, Christos Kordulis¹, Michael Orfanopoulos, Alexis Lycourghiotis, *Applied Catalysis B: Environmental* 117, 36-48 (2012) "Highly active catalysts for the photooxidation of organic compounds by deposition of [60] fullerene onto the MCM-41 surface: a green approach for the synthesis of finechemicals"
120. I. N. Lykakis, E. Evgenidou, M. Orfanopoulos, *CURRENT ORGANIC CHEMISTRY* 16 (20): 2400-2414 (2012). [Photo-catalysis and Polyoxo-anion Decatungstate in Organic Chemistry: "A Manifold Concept for Green Chemistry"](#)
121. M. D. Tzirakis, M. Orfanopoulos, *CHEMICAL REVIEWS* 113 (7): 5262-5321 (2013). "[Radical Reactions of Fullerenes: From Synthetic Organic Chemistry to Materials Science and Biology](#)"

122. [J Kyriakopoulos](#), [A. T. Papastavrou](#), [G. D. Panagiotou](#), [M. D. Tzirakis](#), [K. S. Triantafyllidis](#), [M. N. Alberti](#), [K. Bourikas](#), [C. Kordulis](#), [M. Orfanopoulos](#), [A. Lycourghiotis](#), "Deposition of fullerene C₆₀ on the surface of MCM-41 via the one-step wet impregnation method: Active catalysts for the singlet oxygen mediated photooxidation of alkenes" *Journal of Molecular Catalysis A: Chemical* **381**, 9–15, (2014).
123. Kellner, I. D.; Nye, L. C.; von Gernler, M. S.; Li, J.; Tzirakis, M. D.; Orfanopoulos, M.; Drewello, T. *Phys. Chem. Chem. Phys.* **2014**, 18982–18992. "Ion Formation Pathways of Crown Ether-Fullerene Conjugates in the Gas Phase."
124. Kellner, I. D.; Nye, L. C.; von Gernler, M. S.; Tzirakis, M. D.; Orfanopoulos, M.; Drewello, T., *J. Phys. Chem. C*, **2014**, *118*, 30253-59. "Formation of Singly Bonded Fullerene Dimers in Electrospray Mass Spectrometry" DOI: 10.1021/jp509704a
125. Kellner, I. D.; Nye, L. C.; von Gernler, M. S.; Tzirakis, M. D.; Orfanopoulos, M.; Drewello, T., *J. Phys. Chem. C*, **2016**, *120*, 786-792 "The Influence of Alkali Metal Cation Size on the Formation and Dissociation of Crown Ether Fullerene Dimers in Electrospray Mass Spectrometry. DOI: 10.1021/acs.jpcc.5b11368

PRESENTED PAPERS

1. J. L. Fry, M. Orfanopoulos, M. G. Adlington, W. R. Dittman and S. B. Silverman. Abstracts of Papers *173rd ACS Meeting, American Chemical Society, New Orleans, Louisiana, March 20-25, 1977.*
2. M. Orfanopoulos, Sr. M. B. Grdina and L. M. Stephenson, Photooxidation Workshop, Texas Christian University, November 20, **1978.** "Isotope Effects in the Singlet Oxygen / Olefin Reaction."
3. M. Orfanopoulos, Sr. M. B. Grdina and L. M. Stephenson, Photooxidation Workshop, Texas Christian University, November 20, **1978.** "Site Specificity in the Singlet Oxygen / Olefin Reaction."
4. Sr. M. B. Grdina, M. Orfanopoulos and L. M. Stephenson, American Chemical Society, Cleveland Section Meeting, March 21, **1979.** "Stereochemical Dependence of Isotope Effects in the Singlet Oxygen / Olefin Reaction."
5. T. Makino, M. Orfanopoulos, C. W. Mosher and H. S. Mosher, "Chiral Benzhydrol-2,3,4,5,6-d₅." Presented at Washington ACS Meeting Aug. 28 - Sept. 3, **1983**
6. M. Orfanopoulos and C. S. Foote, "The Ene Reaction of Singlet Oxygen with Cis and Trans Butenes -1,1,1-d₃." Society for Free Radical Research, W. Germany, July 20 -23, (**1986**).
7. M. Orfanopoulos, "Mechanistic Studies of Photooxygenated Reactions".10th Chemical Congress of Greece, Athens, December 2-6, 1986.
8. A. G. Coutsolelos, M. Orfanopoulos and Prassides, "Catalytic Reactions of Metalloporphyrins" 12th Chemical Congress of Greece, Thessaloniki, Greece, November, 1988.
9. M. Stratakis, M. Orfanopoulos, "Intermediate in the ene Reaction of Singlet Oxygen with Alkenes".12th Chemical Congress of Greece, Thessaloniki, Greece, November, **1988.**
10. M. Orfanopoulos, "Mechanism of Dye Sensitized Photooxygenation of Olefins" 6th International Flavor Conference, Division of American Chemical Society, Rethimno, Crete, July, **1989.**
11. M. Orfanopoulos, M. Stratakis, and Y. Elemes, "Regioselectivity of singlet Oxygen and N-phenyl-1, 2, 4-triazoline-3, 5-dione in their Reactions with Alkyl Substituted Olefins. 8th International Conference on Organic Synthesis (IUPAC). Helsinki, 23-27 July, **1990.**
12. M. Orfanopoulos, M. Stratakis, Y. Elemes and I. Smonou, "Do Rotational Barriers Dictate the Regioselectivity in the Ene Reaction of Singlet Oxygen and Triazolinedione with Alkenes?" 4th International Symposium on Activation of Dioxygen and Homogeneous Catalytic Oxidation, Sept. 10-14, **1990**, Balatonfured, Hungary.
13. M. Stratakis, M. Orfanopoulos, "Solvent Effects on the Side Selectivity of Singlet Oxygen with α,β -Unsaturated Esters. New Evidence for a Peroxide Intermediate". ACS Fourth Chemical Congress of North America, New York, August 25-30, **1991.**
14. M. Orfanopoulos, S. Kambourakis, "Chemical Evidence of Singlet Oxygen Production from C₆₀ and C₇₀ in Aqueous and Other Polar Media." 15th Chemical Congress of Greece, Thessaloniki, Greece, December, 6-13, **1994.**
15. A. Pantidou, M. Orfanopoulos, "One Step Synthesis of Triazolinedione from Urazol and dimethyldioxerane." 15th Chemical Congress of Greece, Thessaloniki, Greece, December, 6-13, **1994.**
16. I Agelis, M. Orfanopoulos, "Mechanistic Study of Olefin Epoxidation by Dimethyl dioxirane and meta-Chloro Perbenzoic Acid." 15th Chemical Congress of Greece, Thessaloniki, Greece, December, 6-13, **1994.**
17. M. Stratakis, M. Orfanopoulos, " LIMITS OF THE CIS SELECTIVITY IN THE REACTION OF SINGLET OXYGEN WITH TRISUBSTITUTED ALKENES" 5th European Symposium on Organic reactivity, Santiago de Compostela, Spain, July 16-21, **1995.**

18. I Agelis, M. Orfanopoulos, "A mechanistic Study of the oxidation of secondary olefins by Dimethyl dioxirane and PCC." 16th Chemical Congress of Greece, Athens, Greece, December, 4-8, **1995**.
19. M. Orfanopoulos, "Stereochemistry of the Photooxygenation of Alkenes by ^1H NMR Spectroscopy." 16th Chemical Congress of Greece, Athens, Greece, December, 4-8, **1995**.
20. N. Chronakis, M. Orfanopoulos, "Isotopic H/D Discrimination Due to 1, 3 Non Bonded Interactions." 16th Chemical Congress of Greece, Athens, Greece, December, 4-8, **1995**.
21. G. Vassilikogiannakis, M. Orfanopoulos, "Secondary β Isotope Effects In the Reaction of TCNE and 2, 5-dimethyl-2, 4 hexadiene- d_6 " 16th Chemical Congress of Greece, Athens, Greece, December, 4-8, **1995**.
22. N. Chronakis, M. Orfanopoulos, "Stereochemistry in the Reaction of C_{60} With Certain Dienes" 17th Chemical Congress of Greece, Patras, Greece, December, 1-5, **1996**.
23. G. Vassilikogiannakis, M. Orfanopoulos, "Asymmetric Induction Due to Isotope Effect in the ene Reaction of PTAD With Alkenes." 17th Chemical Congress of Greece, Patras, Greece, December, 1-5, **1996**.
24. M. Orfanopoulos, "Fullerene Chemistry and Photochemistry" 17th Chemical Congress of Greece, Patras, Greece, December, 1-5, **1996**.
25. G. Vassilikogiannakis, M. Orfanopoulos, "Stereochemistry and Isotope Effects in the C_{60} /Arylalkene [2+2] Photocycloaddition" 6th European Symposium on Organic Reactivity, ESOR-VI, Louvain-la-Neuve, Belgium, 24-29 July **1997**.
26. M. Orfanopoulos, G. Vasilikogiannakis "Fullerene Chemistry: Thermal and Photochemical Reactions".(invited) 1st International Conference of the Chemical Societies of the South-East European Countries. Chemical Sciences and Industry." June 1-4, **1998**, Halkidiki, Greece.
27. M. Orfanopoulos, "Photocycloadditions and Ene Reactions of C_{60} with Alkenes. A Mechanistic Approach." (invited-plenary) Gordon Research Conference on Physical Organic Chemistry, June 27-July-2, **1999**, Holderness, NH, USA.
28. M. Orfanopoulos, N. Chronakis, "Fullerene C_{60} Chemistry: A Mechanistic Approach of Photocycloadditions and Ene Reactions. (Invited) ESOC 11, Goteborg, Sweden, July 23-28, **1999**.
29. M. Orfanopoulos, G. Vassilikogiannakis, "[2+2] Photocycloadditions of Acyclic Enones to C_{60} . Regio and Stereoselectivity." 7th European Symposium on Organic Reactivity, ESOR-7, August 22-27, **1999**, Ulm, , Germany.
30. N. Chronakis, M. Orfanopoulos, "Mechanistic Studies on the [4+2] Cycloaddition Reactions of Rigid s-cis Dienes to C_{60} ." 7th European Symposium on Organic Reactivity, ESOR-7, August 22-27, **1999**, Ulm, Germany.
31. M. Orfanopoulos, "Chemistry of Fullerene C_{60} : The Mechanism of Photo- cycloadditions" (Invited) 6th Greek-Cypriot Chemical Congress, 2-5 September, **1999**, Rodos, Greece.
32. M. Orfanopoulos, G. Vassilikogiannakis "Stereochemistry of the Triazolinedione Alkene-Ene reaction: Asymmetric Induction Due to H/D Isotopic Competition" , ICPOC Goteborg, Sweden, August 23-28, **2000**.
33. M. Orfanopoulos, G. Vassilikogiannakis: "Stereochemistry of the Singlet Oxygen Alkene-Ene reaction: Asymmetric Induction Due to H/D Isotopic Competition" The 2000 International Chemical Congress of Pacific Basin Societies, 13-18 December, **2000**, Honolulu, Hawaii, USA
34. L. Birikakaki, Y. S. Angelis, G C. Vougioukalakis M. Orfanopoulos, " β -Cyclodextrin/ C_{60} -Sensitized Photooxygenation of Alkenes in Polar Solvents." 12th European Symposium on Organic Reactivity, ESOC-12, July 13-18, **2001**, Groningen, The Netherlands.
35. M. Orfanopoulos, (invited-plenary) "Thermal and Photochemical Cycloadditions to C_{60} " The 10th International Symposium on Novel Aromatics,(ISNA-10), San Diego, USA, August 4-8, **2001**
36. M. Orfanopoulos, G C. Vougioukalakis "Changes in Triazolinedione-Alkene Ene Reaction Mechanisms. Intra- and Intermolecular Isoyope Effects." 8th European Symposium on Organic Reactivity, ESOR-8, Cavtat (Dubrovnik), Croatia, September 1-6, **2001**

37. M. Orfanopoulos, M. Hatzimarinaki, "Novel Photochemical Functionalization of C₆₀ with Vinylcyclopropanes" International Conference on Reactive Intermediates and Reaction Mechanism, July 7-12, **2002**, Centro Stefano Franscini, Ascona, Switzerland
38. M. Orfanopoulos, "Chemical History of Tetrodotoxin: A Neurotoxin" (Invited) 10th Greek- Chemical Congress, 3-5 December, **2002**, Iraklion, Crete, Greece.
39. Y. Lykakis, M. Orfanopoulos 10th Greek- Chemical Congress, 3-5 December, **2002**, Iraklion, Crete, Greece.
40. M. Alberti, M. Orfanopoulos 10th Greek- Chemical Congress, 3-5 December, **2002**, Iraklion, Crete, Greece.
41. M. Roumbelakis, M. Orfanopoulos 10th Greek- Chemical Congress, 3-5 December, **2002**, Iraklion, Crete, Greece.
42. G. Vougioukalakis, M. Orfanopoulos 10th Greek- Chemical Congress, 3-5 December, **2002**, Iraklion, Crete, Greece.
43. Y. Lykakis, M. Orfanopoulos, "Decatungstate Photocatalyzed Oxygenation of Aryl Alkanols. Electron Transfer or Hydrogen Abstraction Mechanism?" XVth FEChem Conference on Organometallic Chemistry, Aug. 10-15, **2003**, University of Zurich, Zurich Switzerland.
44. M. Orfanopoulos (invited), Maria Hatzimarinaki, "Photochemical Functionalization of Fullerene C₆₀ with Vinylcyclopropanes. A Mechanistic Approach" Kyushu International Symposium on Physical Organic Chemistry, KISPOC-X, Sept. 30-Oct. 3, **2003**, Kyushu University, Japan
45. Vrantza, T. Gimisis, G. Vougioukalakis, M. Orfanopoulos, S. Perea, M. Miranta, D. Gasparutto, J. Cadet, "Independent Photochemical Generation of Guanosine Base Radicals" 9th International Symposium on Organic free radicals, Corsica, France, June **2004**.
46. M. Roumbelakis, G. Vougioukalakis, M. Orfanopoulos, "Reactive Intermediates: The Cyclopropyl Group as a Mechanistic Probe in the Ene Reaction of N-Phenyl-1,2,4-triazoline-3,5-dione (PTAD) with Alkenes." Reaction Mechanism VII, University College Dublin, Dublin, Ireland, July 4-8, **2004**.
47. M. Orfanopoulos (invited), Maria Hatzimarinaki, "Synthesis of Novel Cycloderivatives of [C₆₀]Fullerene" 1st Hellenic Symposium Organic Synthesis "From Chemistry to Biology, Medicine and Material Science" University of Athens, Greece, 4-6 November, **2004**.
48. M. Alberti, M. Orfanopoulos, "Consideration of Regioselectivity of Allylic Oxidation with tri- and tetra-Substituted Olefins " 1st Hellenic Symposium Organic Synthesis "From Chemistry to Biology, Medicine and Material Science" University of Athens, Greece, 4-6 November, **2004**.
49. M. Orfanopoulos (invited) " [C₆₀]Fullerene Photosensitized Oxidations of Organic Compounds" 8th Hellenic-Cyprus Symposium: Chemistry, Quality of Life, Education" University of Thessalonica, 10-13 December, **2004**.
50. M. Orfanopoulos (invited) "Singlet Oxygen, Toxicity and Therapeutic Properties" 6th CONFERENCE Medicinal Chemistry: "DRUG DISCOVERY AND DESIGN" University of Patras March 10-12, **2005**
51. M. Orfanopoulos, (invited), M. Alberti, "Stereochemistry of Singlet Oxygen (¹O₂, ¹Δ_g) Ene Reaction with Alkenes: Possible Intermediates" Kyushu International Symposium on Physical Organic Chemistry, KISPOC-X, Sept. 12-15, **2005**, Kyushu University, Japan
52. M. Orfanopoulos (invited), G. S. Vougioukalakis, Maria Hatzimarinaki, "Radical Functionalization of Aza[60]fullerene: New Monoadducts and Mechanistic Studies, 14th European Symposium on Organic Chemistry, ESOC-12, July 4-8, **2005**, Helsinki, Finland.
53. M. Roumbelakis, M. Orfanopoulos, "Functionalization of Fullerene C₆₀ with Photochemically Generated Hydroxy-o-quinodimethane Derivatives. A Mechanistic Approach" 10th European Symposium on Organic Reactivity, ESOR-10, July 25-30, **2005**, Rome Italy.

- 54 M. Alberti, M. Orfanopoulos, "Cyclopropyl Alkenes as Mechanistic Probes in the Ene Reaction with Singlet Oxygen. A Mechanistic Approach" 10th European Symposium on Organic Reactivity, ESOR-10, July 25-30, **2005**, Rome Italy.
- 55 M. Alberti, M. Orfanopoulos, "Stereochemistry of the Singlet Oxygen ($^1\text{O}_2$, $^1\Delta_g$) Ene Reaction with Alkenes: Possible Intermediates" RHG Nobel Prize Symposium, California Institute of Technology, Pasadena July 21-23, **2006**
- 56 Nye, L. C.; Vougioukalakis, G. C.; Streletskii, A. V.; Boltalina, O. V.; Orfanopoulos, M.; Drewello, T. "Cage-open Fullerenes Studied by Laser-based Mass Spectrometry: Fragmentation-free Analysis, Cage Closure and Coalescence." 17th International Mass Spectrometry Conference, Prague, Czech Republic, August **2006** (*Παρουσίαση Poster*).
- 57 Manolis Tzirakis and Michael Orfanopoulos, "New Functionalization of Fullerene C₆₀: Photocycloadditions of Cyclopropyl-Substituted Alkenes to C₆₀" 2nd Hellenic Symposium of Organic Synthesis – From Chemistry to Biology, Medicine and Materials Science, Athens, Greece, April 2007.
- 58 Michael Orfanopoulos and Manolis D. Tzirakis, "Decatungstate-Mediated Radical Reactions of Fullerene C₆₀: A Novel Approach Towards Fullerene Functionalization" 15th European Symposium on Organic Chemistry (ESOC-2007), Dublin, Ireland, July 2007.
- 59 M. Alberti, M. Orfanopoulos, "Singlet Oxygen Photooxidation of Olefins: a Controversial Mechanism" International Conference in Photochemistry (*ICP2007*), 29 July -3 August **2007**, Cologne, Germany (invited)
- 60 Manolis D. Tzirakis, Vasilis Amargianitakis and Michael Orfanopoulos, "Synthesis of New [60]Fullerene Derivatives Catalyzed by Decatungstate" 13th Hellenic Symposium of Medicinal Chemistry, Athens, Greece, March **2008**. (poster)
- 61 Mariza Alberti, Maria Amargianitaki and Michael Orfanopoulos 13th Hellenic Symposium of Medicinal Chemistry, Athens, Greece, March **2008**. (poster)
- 62 Μανώλης Δ. Τζιράκης και Μιχάλης Ορφανόπουλος, "Φωτοκαταλυόμενες Αντιδράσεις Ελευθέρων Ριζών για την Σύνθεση Νέων Παραγώγων του Φουλερενίου C₆₀" 1^o Συνέδριο Μεταπτυχιακών Φοιτητών Χημείας Ελλάδας-Κύπρου, Πόλις Χρυσοχούς, Κύπρος, Ιούλιος **2008**.
- 63 Manolis D. Tzirakis and Michael Orfanopoulos, "A New Carbonylation of [60]Fullerene Through Decatungstate Photocatalysis: A Mechanistic Approach" 19th IUPAC Conference on Physical Organic Chemistry (ICPOC-2008), Santiago de Compostela, Spain, July **2008**. (poster)
- 64 Manolis D. Tzirakis and Michael Orfanopoulos, "A Free-Radical Acylation Method for the Functionalization of [60]Fullerene", 16th European Symposium on Organic Chemistry (ESOC), Prague, Czech, 12-16 July, **2009** (invited talk).
- 65 Manolis D. Tzirakis and Michael Orfanopoulos, "On the Mechanism of the Free-radical Acylation of [60]Fullerene" 12th KISPOC Symposium on Physical Organic Chemistry, Kyushu University, Fukuoka, Japan, December 15-18, **2009**. (invited talk)
- 66 Mariza Alberti and Michael Orfanopoulos, "Photosensitized Oxidation of Alkenes: A Controversial Mechanism" 3rd EuCheMS Chemistry Congress, Chemistry-the Creative Force, 29.08 -2.09.**2010**, Nurenberg, Germany (invited talk)
- 67 Tzirakis, M. D.; Orfanopoulos, M. "Photochemical Addition of Ethers to C₆₀: Synthesis of the Simplest [60]Fullerene-Crown Ether Conjugates." 3rd EuCheMS Chemistry Congress, Nürnberg, Germany, August 29 – September 2, 2010.
- 68 Tzirakis, M. D.; Orfanopoulos, M. "Photomediated Radical Addition of Ethers to C₆₀: A Facile Route to Novel [60]Fullerene-Crown Ether Conjugates." Fullerene Silver Anniversary Symposium - FSAS 2010, Hersonissos, Crete, Greece, October 2010.
- 69 Orfanopoulos, M., Tzirakis, M. D.; Alberti, M. N. "Decatungstate-Mediated Radical Reactions of Fullerene C₆₀: A Novel Approach towards Fullerene Functionalization." Fullerene Silver Anniversary Symposium - FSAS 2010, Hersonissos, Crete, Greece, October 2010.
- 70 Michael Orfanopoulos, "Decatungstate-Mediated Radical Reactions of Fullerene C₆₀: A Novel Approach Towards Fullerene Functionalization", Fullerene Silver Anniversary (FSAS), Crete, Greece, October 4-10, **2010** (invited talk).

- 71 Tzirakis, M. D.; Orfanopoulos, M. "Photocycloaddition of biscyclopropylsubstitutedalkenes to C₆₀: One-step regioselective formation of *cis*-1 tricyclicfusedfullerenes." 17th European Symposium on Organic Chemistry (ESOC 2011), Hersonissos, Crete, Greece, July 2011.
- 72 Tzirakis, M. D.; Alberti, M. N.; Orfanakis, A.; Nye, L. C.; Drewello, T.;Orfanopoulos, M. "One-step Synthesis of Fullerene Hydride C₆₀H₂ via Hydrolysis of Acylated Fullerenes." 17th European Symposium on Organic Chemistry (ESOC 2011), Hersonissos, Crete, Greece, July 2011.
- 73 Orfanopoulos, M. "Fullerenes: Thermal and Photochemical Reactions of the Third Allotropic Form of Carbon" 18th European Symposium on Organic Chemistry (ESOC 2013), Marseille, July 7th to 12th, 2013 Marseille, France (plenary)
- 74 Manolis D. Tzirakis, Mariza N. Alberti, Michael Orfanopoulos* "Photoinduced Cycloaddition of Vinylic Biscyclopropanes to C₆₀: One-Step Regioselective Formation of *cis*-1 Tricyclic-Fused Fullerenes" 5th EuCheMS Chemistry Congress Istanbul, 31/08-04/09-2014 (poster)
- 75 Symposium – "Singlet Oxygen: Discovery, Development, Mechanisms and Applications in Organic Synthesis" 50th Anniversary of Foote/Wexler Discovery, A Milestone for Singlet Oxygen Research. UCLA, 73 Los Angeles, California, USA, July 12, 2015 (invited).
- 75 Michael Orfanopoulos, "Singlet Oxygen: Discovery, Development, Mechanisms and Applications in Organic Synthesis". 12^o Συνέδριο Ελλάδας – Κύπρου. Συνεδριακό Κέντρο ΚΕΔΕΑ του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης 9 Απριλίου 2015 (invited).
- 76 Michael Orfanopoulos, Mariza N. Alberti. "Singlet Oxygen: a Powerful Tool for Photosensitized Oxidations of Organic Molecules, SSCHE15- 42nd International Conference of SSCHE, May 25 – 29, 2015, Hotel Hutník, Tatranské Matliare, Slovak Republic(oral)