

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

ΟΡΦΑΝΟΠΟΥΛΟΣ ΜΙΧΑΛΗΣ
ΟΜΟΤΙΜΟΣ ΚΑΘΗΓΗΤΗΣ ΟΡΓΑΝΙΚΗΣ ΧΗΜΕΙΑΣ

ΤΜΗΜΑ ΧΗΜΕΙΑΣ
ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

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 Επάγγελμα: Καθηγητής Τμήματος Χημείας
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ΣΠΟΥΔΕΣ

1971: Πτυχίο Χημείας
 Πανεπιστήμιο Πατρών
 1976: Master στην Οργανική Χημεία
 Πανεπιστήμιο του Toledo, ΗΠΑ
 1979: Διδακτορικό Δίπλωμα (Ph.D) στην Οργανική
 Χημεία Πανεπιστήμιο του Case Western Reserve,
 ΗΠΑ.
 Φεβρ. 1980-Αυγ. 1981: Πανεπιστήμιο του Stanford, ΗΠΑ. Μεταδιδα-
 κτορική έρευνα (Postdoctoral Fellow) με τον
 Καθηγητή H. S. Mosher.

ΠΡΟΗΓΟΥΜΕΝΕΣ ΑΚΑΔΗΜΑΪΚΕΣ/ΕΡΕΥΝΗΤΙΚΕΣ ΘΕΣΕΙΣ

1973-1979: Βοηθός διδασκαλίας (Teaching assistant)
 Πανεπιστήμια του Toledo και Case Western
 Reserve, ΗΠΑ.
 Οκτ. 1981-Σεπτ. 1985: Έρευνητής στο Τμήμα Οργανικής Χημείας
 ΚΠΕ Δημόκριτος.
 Διδασκαλία στην Οργανική Χημεία και
 Φασματοσκοπία NMR στο Μεταπτυχιακό Τμήμα
 του Δημοκρίτου.
 1984-1985: Research Scholar
 Πανεπιστήμιο Καλιφόρνιας Λος Άντζελες (UCLA),
 ΗΠΑ. Συνεργασία με τον Καθηγητή C. S. Foote

- στο πεδίο των μηχανισμών των φωτοοξειδώσεων οργανικών μορίων.
- Οκτ. 1985-Ιουλ.1989: Επίκουρος Καθηγητής
Τμήμα Χημείας, Πανεπιστήμιο Κρήτης
- Ιούν. –Σεπτ. 1987: Research Scholar στο Πανεπιστήμιο της Καλιφόρνιας Λος Άντζελες (UCLA), ΗΠΑ. Συνεργασία με τον Καθηγητή C. S. Foote στο πεδίο των φωτοοξειδώσεων οργανικών μορίων με διεγερμένο μοριακό οξυγόνο.
- Ιούλ. 1989-Ιούν.1993: Αναπληρωτής Καθηγητής
Τμήμα Χημείας, Πανεπιστήμιο Κρήτης
- Ιούλ.-Σεπτ. 1989: Επισκέπτης Καθηγητής
Πανεπιστήμιο της Καλιφόρνιας Λος Άντζελες (UCLA), ΗΠΑ
- Ιούν.1993- σήμερα: Καθηγητής
Τμήμα Χημείας, Πανεπιστήμιο Κρήτης
- Μάιος-Αύγ. 1993: Επισκέπτης Καθηγητής
Πανεπιστήμιο της Καλιφόρνιας Λος Άντζελες (UCLA), ΗΠΑ
- Ιαν. – Απρ. 2000 Εκπαιδευτική άδεια
Επισκέπτης Καθηγητής
The Scripps Research Institute, Department of Chemistry (συνεργασία με Prof. K. C. Nikolaou)
- Φεβρ. – Αυγ. 2006 Εκπαιδευτική άδεια
Επισκέπτης Καθηγητής
California Institute of Technology (Caltech)
(συνεργασία με Prof. R. H. Grubbs, Nobel 2005)

ΕΠΙΒΛΕΨΗ ΜΕΤΑΠΤΥΧΙΑΚΗΣ ΕΡΕΥΝΑΣ

Επιστημονικός Υπεύθυνος στην επίβλεψη δέκα (10) Διδακτορικών Διατριβών (Ph.D.),
Ενώ μία Διδακτορική Διατριβή ευρίσκεται σε εξέλιξη.

Δεκαπέντε (15) Διπλωμάτων Ειδίκευσης (Master's) και είκοσι Διπλωματικών Εργασιών.

ΔΙΟΙΚΗΤΙΚΕΣ ΘΕΣΕΙΣ-ΜΕΛΟΣ ΕΠΙΤΡΟΠΩΝ

- 1988-1989: Μέλος Συγκλήτου Παν/μίου Κρήτης
- 1989-1992: Μέλος Επιτροπής Ερευνών Παν/μίου Κρήτης
- 1994-1998: Πρόεδρος Τμήματος Χημείας, Παν/μιο Κρήτης
- 1994-1998 Μέλος Συγκλήτου Παν/μίου Κρήτης
- 1985-σήμερα: Μέλος Επιτροπής Μεταπτυχιακών Σπουδών
Τμήματος Χημείας

| | |
|---------------|---|
| 1998-2015 | Επιστημονικός Υπεύθυνος του Μεταπτυχιακού Προγράμματος «Απομόνωση και Σύνθεση Φυσικών Προϊόντων με Βιολογική Δραστηκότητα.» |
| 1999-2002 | Μέλος Επιτροπής Ερευνών Παν/μίου Κρήτης |
| 1998-2004: | Τακτικό μέλος τριμελούς εισηγητικής επιτροπής Χημείας στο ΔΙ.Κ.Α.Τ.Σ.Α. |
| 2003- σήμερα: | Μέλος Επιστημονικής Επιτροπής του Ευρωπαϊκού Συνεδρίου Οργανικής Χημείας (ESOC). |
| 2004-2009: | Αντιπρόεδρος Τεχνικού Συμβουλίου Παν/μιου Κρήτης |
| 2003-2011 | Μέλος της Επιστημονικής Επιτροπής του Διεθνους Ευρωπαϊκού Συνεδρίου Οργανικής Χημείας (European Symposium of Organic Chemistry, ESOC). |
| 2010-2014: | Πρόεδρος Τμήματος Χημείας, Παν/μιο Κρήτης |
| 2011-2013 | Μέλος Συγκλήτου Παν/μίου Κρήτης |
| 2009-σήμερα | Μέλος της Επιτροπής του Προγράμματος των ετησίων Lindau Nobel Laureate Meetings. Επιλογή υποψηφίων Πανελλαδικά με Ακαδημαϊκό Συνεργάτη το Ίδρυμα Ωνάση. |
| 2015-σημερα | Μέλος της Πενταμελους Επιστημονικης Επιτροπής Κρίσης “Βραβείων L’Oreal” για Ελληνίδες Γυναίκες Επιστημόνες. |

ΥΠΕΥΘΥΝΟΣ ΕΡΕΥΝΗΤΙΚΩΝ ΠΡΟΓΡΑΜΜΑΤΩΝ

<<Ηλεκτρομαγνητικές Ιδιότητες Υλικών Μικτού Σθένους>>

Πρόγραμμα ΓΓΕΤ

ΜΠΑΒΕΤ: 1988-1990

(10 εκατομ. Δρχ.)

«Μηχανισμός Φωτοοξειδωσης Οργανικων Μορίων.»

ΠΕΝΕΔ: 1991-1993 (Κ.Α. 279)

(4.5 εκατομ. Δρχ.)

<<Παρασκευές και Φυσικοχημεία Νέων Οργανομεταλλικών Υλικών Βασισμένων στο C₆₀>>

Πρόγραμμα ΓΓΕΤ

ΠΕΝΕΔ: 1994-1998 (Κ.Α. 159) (8 εκατομ. Δρχ.)

<< Σύνθεση και Χαρακτηρισμός παραγώγων του C₆₀. Τεχνολογικές Εφαρμογές.

Πρόγραμμα ΓΓΕΤ

ΥΠΕΡ: 1995-1998 (Κ.Α. 408) (13 εκατομ. Δρχ.)

«Φωτοευαισθητοποιημένες οξειδώσεις με Διεγερμένο Μοριακό Οξυγόνο»

ΝΑΤΟ:(Δύο προγράμματα) 1988-1998 (\$ 30.000)

<< Φωτοκατάλυση Οργανικών Ουσιών με Πολυοξοβολφραμικά Σύμπλοκα. Μηχανισμός και Εφαρμογές>>

Διακρατικό Πρόγραμμα ΓΓΕΤ (Κ.Α. 1472)

Ελλάδα-Γαλλία, ΠΛΑΤΩΝ 1998-2000: (2.4 εκατομ. Δρχ.)

<< Πολυοξοβολφραμικά Σύμπλοκα: Αποτελεσματικοί Φωτοκαταλύτες με Πιθανές Εφαρμογές>>

Διακρατικό Πρόγραμμα ΓΓΕΤ

Ελλάδα-Γαλλία, ΠΛΑΤΩΝ 2001-2002: (3.9 εκατομ. Δρχ.)

<<Οργανικές Ελεύθερες Ρίζες σε Βιολογικά Συστήματα>>

Πρόγραμμα Προσφοράς Σταδιοδρομίας στην Ελλάδα

σε Ελληνόφωνους Ερευνητές του Εξωτερικού 1999-2001 (29.9 εκατομ. Δρχ.)

<< Φωτοκατάλυση με ελεύθερο C₆₀ και Στηριγμένο σε Σιλικά /Αλούμινα>>

ΠΕΝΕΔ: 1999-2001 (70 εκατομ. Δρχ.)

«Απομόνωση και Σύνθεση Φυσικών Προϊόντων με Βιολογική Δραστικότητα.»

Διαπανεπιστημιακό Μεταπτυχιακό

Πρόγραμμα ΕΠΕΑΕΚ 1998-2001 (370 εκατομ. Δρχ.)

Πρόγραμμα ΕΠΕΑΕΚ 2001-2003 (112.000,00 €)

«Σύνθεση και Φωτοχημικές Μελέτες Νέων Παραγώγων του Φουλερενίου C₆₀ .»

Πυθαγορας ΙΙ, 2005-2007 (Κ.Α. 2105) (50,000 €)

«Πορώδη Υλικά ως Καταλύτες στη Σύνθεση Οργανικών Ενώσεων με Βιομηχανικό Ενδιαφέρον.»

ΠΕΝΕΔ: 2002-2007 (156.000,00 €)

«Μελέτη Φωτοχημικών Αντιδράσεων του Φουλερενίου C₆₀»

Ηράκλειτος, ΓΓΕΤ, 2002-2007 (34.400 €)

«Χημεία και Φωτοχημεία Νανοδομών του Άνθρακα Βασισμένες σε Φουλερένια και Ετεροφουλερένια»

ΗΡΑΚΛΕΙΤΟΣ ΙΙ, ΥΠΕΘ

(60.000 €)

ΥΠΟΤΡΟΦΙΕΣ

IKY (1967-1969)

Fulbright Fellowship (1992)

ΚΡΙΤΗΣ: Journal of the American Chemical Society (J. Am. Chem. Soc.)
 Journal of Organic Chemistry (J. Org. Chem.)
 Accounts of Chemical Research
 Helvetica Chimica Acta
 Angew. Chem.
 Photochem. Photobiology
 Org. Lett.
 Phys. Org. Chem.

ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ

- I. Σύνθεση και φωτοκαταλυτική δράση νανοδομών του άνθρακα κυρίως Φουλερενίων C₆₀, Ετεροφουλερενίων (C₅₉N)₂ και παραγώγων τους.
- II. Ομογενής και ετερογενής κατάλυση με φωτοκαταλύτες σύμπλοκα του Βολφραμίου.(W₁₀O₃₂⁴⁻)
- III. Μελέτη μηχανισμών των φωτοκαταλυτικών οξειδώσεων και ιδιαίτερα μελέτη της αλληλεπίδρασης του διεγερμένου οξυγόνου (Singlet Oxygen, ¹O₂) με οργανικά μόρια σε υγρή και αέρια φάση.
- IV. Μηχανισμοί θερμικών και καταλυτικών αντιδράσεων.

ΔΗΜΟΣΙΕΥΣΕΙΣ

Δημοσιεύσεις σε διεθνούς κύρους επιστημονικά περιοδικά πάνω από 125 (h-factor 29)
 Αναφορές 322.

ΒΙΒΛΙΑ-ΚΕΦΑΛΑΙΑ ΣΕ ΒΙΒΛΙΑ

- Μετάφραση και επιστημονική επιμέλεια (με άλλους) για την απόδοση στα ελληνικά του βιβλίου ORGANIC CHEMISTRY-MCMURRY-Fourth Edition. Διανέμεται σαν σε όλα τα Παν/μια της Ελλάδας για την διδασκαλία της οργανικής Χημείας σε προπτυχιακό επίπεδο. (Πανεπιστημιακές Εκδόσεις Κρήτης)
- Μέλος συγγραφικής ομάδας του Ελεύθερου Ανοικτού Πανεπιστημίου, για την συγγραφή και διόρθωση βιβλίου Οργανικής Χημείας.

- 1. 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".
- 2. Alberti, M. N., Tzirakis, M. D., Orfanopoulos, M. "Product Class 9: Larger-Ring Cyclic Peroxides and Endoperoxides." in *Compounds with One Saturated Carbon-Heteroatom Bond – Peroxides*; Berkessel, A., Vol. Ed.; *Science of Synthesis: Houben-Weyl Methods of Molecular Transformations* series; Georg Thieme Verlag KG: Stuttgart · New York, **2009**, Vol. 38, pp 469–524.
- 3. Tzirakis, M. D.; Orfanopoulos, M. "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, **2012**, pp 2171–2196.
- Alberti, M. N.; Orfanopoulos, M., "Singlet Oxygen-Mediated Allylic Oxidation" in *CRC Handbook of Organic Photochemistry and Photobiology*, 3rdEd., Griesbeck, A.; Ghetti, F.; Oelgemöller, M., Eds.; CRC Press: Boca Raton, **2012**, chapter 31, pp. 765–779.

ΑΝΑΦΟΡΕΣ ΕΠΙΣΤΗΜΟΝΙΚΟΥ ΕΡΓΟΥ ΣΕ ΒΙΒΛΙΑ

- *Advanced Organic Chemistry*: Jerry March, 5th ed. 2001, (**10**: ref. 1308, **14**: ref. 227, 248, 250, 251, 254., **16**: ref. 846, **19**: ref. 531)
- *Advanced Organic Chemistry Part B: Reactions and Synthesis*, F. A. Carey and R. J. Sunberg, Plenum Press, 1990. (pp. 249, 642)
- *Determination of Organic Reaction Mechanism*: Karpenter, B. Willey Interscience N. Y. 1984 (pp. 205)
- *Organic Reaction* by Fieser and Fieser, Vol. **7** (p., 388), Vol. **8** (p. 501) and Vol. **10** (p. 144)
- *Compendium of Organic Synthetic Methods* by M. B. Smith (1992), Vol. VII (p. 220)

PUBLICATIONS-Book Chapters

Prof. Michael Orfanopoulos (University of Crete)

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 Organo-Silane-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 Rigioselectivity 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-Tetraphenyl-porphrinato)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."
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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 α 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 Concerence 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.
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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 Trazolinedione 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/C60-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 C₆₀" 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. Hatzimarinaski, "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. Roubelakis, 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-Octob. 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. Roubelakis, 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" 8st 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 (1O_2 , $^1\Delta_g$) 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. Roubelakis, 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.
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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^ο Συνέδριο Μεταπτυχιακών Φοιτητών Χημείας Ελλάδας-Κύπρου, Πόλις Χρυσόχους, 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**, Nuremberg, 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 biscyclopropylsubstituted alkenes to C60: One-step regioselective formation of *cis*-1 tricyclic fused fullerenes." 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)