

CURICULUM VITAE

I. PERSONAL DATA

Full Name: Sotiris Orfanidis
Nationality: Hellenic
Birth date: 19 April 1962
Place of Birth: Moudros, Lemnos, Greece
Work address : National Agricultural Research
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Position: Senior Researcher,
Head of the "Marine Ecology & Technology" Lab.



II. EDUCATIONAL DATA

Degrees

October 1980-May 1985: Degree (B.Sc.) in Biology, Department of Biology, Aristotle University of Thessaloniki, Greece (Degree "very good" 7.11).
February 1986-Dec. 1990: Doctorate (Ph.D) in Biology, Department of Biology, Institute of Botany, Aristotle University of Thessaloniki, Greece (Degree "excellent" 10).

Additional qualification & training

June-July 1984: Summer Course, 9 Credits, in Marine Algology at Friday Harbour Laboratories, University of Washington.

Languages

German, English, Greek (mother tongue)

III. SCHOLARSHIPS-DISTINCTIONS

Scholarships

May 1986-October 1989: Scholarship from the German Academic Exchange Service (DAAD) for scientific investigations at "Biologische Anstalt Helgoland", Hamburg, Germany.
January 1995-April 1996: Human Capital and Mobility, Individual Fellowships (European Community) for scientific investigations at Department of Marine Biology, University of Groningen, The Netherlands.
June-1997: Organisation for Economic Co-operation and Development (OECD). Directorate for Food, Agriculture and Fisheries. Two weeks fellowship to study in the University of Rennes I, France the agricultural uses of marine plants grown in eutrophicated waters.

Important invitations as a speaker

- **August 18-25, 2001:** 7th International Phycological Congress, Thessaloniki, Greece. Talk title: *The role of the Tethyan seaway in the distribution of modern clades of benthic marine algae.*
- **April 16, 2004:** Symposium on the occasion of the retirement of Dr. Anneke Breeman, Groningen, The Netherlands, entitled "Marine Phycological Research, Past and Present". Talk title: *Anneke's voice in seaweed biogeography.*
- **May 23, 2006:** Workshop of Hellenic Phycological Society entitled "Algae, Human and Environment". Talk title: *The odyssey of marine benthic algae in time and space: changes in the biodiversity of Mediterranean in the past and today.*
- **October 8-11, 2009:** 11th Conference of Hellenic Botanical Society. Talk title: *Benthic macrophyte communities as bioindicators of water quality of transitional and coastal waters.*
- **September 4-9, 2011:** 5th European Phycological Congress, Rhodes Island. Talk title: *Algal changes in the Mediterranean Sea: drivers, effects and policies (plenary lecture).*

IV. PROFESSIONAL EXPERIENCE

Mediterranean Geographical Intercalibration Group (MED-GIG) for water quality assessment of coastal and transitional waters (WFD 2000/60)

- National representative in the Coastal Waters-Macroalgae group, Leader for the group for the period 2007-2009.
- National representative and leader of the Transitional waters benthic macrophyte group for the period 2009-.

Participation in Scientific Societies

- Hellenic Society of Bio-scientists
- Hellenic Phycological society
- European Phycological Society (Journal of European Phycology)
- American Phycological Society (Journal of Phycology)
- International Phycological Society (Phycologia Journal)
- American Association for the Advancement of Science (Science Journal)
- Greek Geotechnical Chamber

Development of New Technologies

- Ecological Evaluation Index (EEI): An benthic macrophyte index to implement WFD (60/2000) in rocky coastal coasts and sedimentary coastal lagoons.
- Cymoskew: A *Cymodocea nodosa* index to implement WFD (60/2000) in sedimentary coastal waters.

Supervision of Phd works

- A phd work supervised by Plymouth University and Marine Benthic Ecology & Technology lab (NAGREF).

Reviewer of International Scientific Journals

- Biological Journal
- Journal of phycology
- Estuarine Coastal and Shelf Science
- Aquatic Conservation: marine and freshwater ecosystems
- Hydrobiologia
- Ecological Indicators
- Novahedvigia

- Mediterranean Marine Science
- Transitional Waters Bulletin
- Diseases of Aquatic Organisms
- Fresenius Environmental Bulletin

Editorial Board of Scientific Journals

- Mediterranean Marine Science
- Transitional Waters Bulletin

Participation in national and international Scientific Net-works

1. **ELNET:** Hellenic network of transitional ecosystems.
2. **LifeWatch:** e-Science and Technology Infrastructure for Biodiversity Data and Observations.
3. **MARBEF:** Marine Biodiversity and Ecosystem Functioning, Network of Excellence phase II.
4. **HELBIONET:** Network of Hellenic Biodiversity Research)

Congress-Workshop Organization (selection)

1. **7th International Phycological Congress, Thessaloniki, Greece, August 18-25, 2001.** Member of Local Organization Committee, Session Chairman.
2. **International Workshop: “Transitional states in transitional & coastal waters: Identifying mechanisms & developing indicators of habitat/water quality shifts”, Kavala, Greece, June 1-2, 2006.** Workshop Organizer, Scientific Committee.
3. **8th Hellenic Congress of Oceanography & Fisheries, Thessaloniki, Greece, 4-8 June 2006.** Member of Scientific Committee, Session Chairman.
4. **3rd European Conference on Lagoon Research: “Conservation and Management in Coastal Ecosystems”, Naples, Italy, November 19-23, 2007.** Member of Scientific Committee, Session Chairman.
5. **4th Congress of Hellenic Ecological Society (Co-organization Hellenic Zoological Society, Hellenic Botanical Society and Hellenic Phycological Society): “Current trends in research of Ecology”, Thessaly University, Volos, Greece, October 9-12 2008.** Member of Scientific Committee, Session Chairman.
6. **11th Congress of Hellenic Botanical Society, Athens, Greece, October 8-11 2009.** Session Chairman, Invited speaker.
7. **4th European Conference on Coastal Lagoon Research: “Research and Management for the Conservation of Coastal Lagoon Ecosystems, South - North comparisons”, Montpellier, France, 14-18 December, 2009.** Member of Scientific Committee, Session Chairman.
8. **5th European Phycological Congress: Exploring the phycocosmos: A European perspective, Rhodes Island, Greece, 4-9 September, 2011.** Member of Local Organizing Committee, Member of Scientific Committee, Plenary lecture.

V. PUBLICATIONS

Dissertation

Orfanidis S. 1990. Temperature and photoperiodic responses of several Mediterranean macroalgae in relation to their Distribution in the North Atlantic Ocean. PhD. Aristotle University of Thessaloniki, Greece, 173 pp.

Publications in international journals

1. Tsekos I., **Orfanidis S.** 1990. Marine macroalgae of the gulf of Thessaloniki (Greece) collected during the period 1962-1969. **Mediterranean Marine Science (Thalassographica)** 13: 33-45. (Impact Factor 2010: 0.568)
2. **Orfanidis S.** 1991. Temperature responses and distribution of macroalgae belonging to the warm-temperate Mediterranean-Atlantic distribution group. **Botanica Marina** 34: 541-552. (Impact Factor 2008: 0.844)
3. **Orfanidis S.** 1992. Light requirements for growth of six shade-acclimated Mediterranean macroalgae. **Marine Biology** 112: 511-515. (Impact Factor 2010: 1.953)
4. **Orfanidis S.** 1993. Temperature responses and distribution of several Mediterranean macroalgae belonging to different distribution groups. **Botanica Marina** 36: 359-370. (Impact Factor 2008: 0.844)
5. **Orfanidis S.**, Haritonidis S. 1996. Effect of acclimation temperature on temperature responses of *Porphyra leucosticta* and *Enteromorpha linza* from the Gulf of Thessaloniki, Greece. **Helgoland Marine Research (Helgoländer Meeresuntersuchungen)** 50: 1-13. (Impact Factor 2010: 1.591)
6. **Orfanidis S.**, Haritonidis S., Tsekos I. 1996. Temperature requirements of *Scytosiphon lomentaria* (Scytosiphonales, Phaeophyta) from the Gulf of Thessaloniki in relation to geographic distribution. **Helgoland Marine Research (Helgoländer Meeresuntersuchungen)** 50: 15-24. (Impact Factor 2010: 1.591)
7. Tsekos I., Reiss H.-D., **Orfanidis S.**, Orogas N. 1996. Ultrastructure and supramolecular organization of photosynthetic membranes of some marine red algae. **New phytologist** 133: 543-551. (Impact Factor 2010: 5.178)
8. Lazaridou E., **Orfanidis S.**, Seferlis M., Haritonidis S. 1996. Impact of eutrophication on species composition and diversity of macrophyte on the Gulf of Thessaloniki, Macedonia, Greece. **Fresenius Environmental Bulletin** 6: 54-59 (Impact Factor 2010: 0.43)
9. **Orfanidis S.**, Venekamp L.A.H., Breeman A.M. 1999. Ecophysiological adaptations of two Mediterranean red algae in relation to distribution. **European Journal of Phycology** 34: 469-476. (Impact Factor 2010: 1.826)
10. **Orfanidis S.**, Breeman A.M. 1999. Geographic variation in thermal traits in *Digenea simplex* and *Champia parvula* (Rhodophyta) in relation to present and glacial temperature regimes. **Journal of Phycology** 35: 919-930. (Impact Factor 2010: 2.811)
11. **Orfanidis S.** 2001. Culture studies of *Porphyra leucosticta* (Bangiales, Rhodophyta) from the Gulf of Thessaloniki, Greece. **Botanica Marina** 44: 533-539. (Impact Factor 2008: 0.844)
12. **Orfanidis S.**, Panayotidis P., Stamatis N. 2001. Ecological evaluation of transitional and coastal waters: A marine benthic macrophytes-based model. **Mediterranean Marine Science** 2 (2): 45-65. (Impact Factor 2010: 0.568)
13. **Orfanidis S.**, Panayotidis P., Stamatis N. 2003. An insight to the ecological evaluation index (EEI). **Ecological Indicators** 3 (1): 27-33. (Impact Factor 2010: 1.984)
14. Panayotidis P., Montesanto B., **Orfanidis S.** 2004. Use of low-budget monitoring of macroalgae to implement the European Water Framework Directive. **J. Applied Phycology** 16: 49-59. (Impact Factor 2010: 1.209)
15. **Orfanidis S.**, Stamatis N., Ragias V., Schramm W. 2005. Eutrophication patterns in an eastern

Mediterranean coastal lagoon: Vassova, Delta Nestos, Macedonia, Greece. **Mediterranean Marine Science** 6: 17-29. (Impact Factor 2010: 0.568)

16. Nicolaidou A., Reizopoulou S., Koutsoubas D., **Orfanidis S.**, Kevrekidis Th. 2005. Biological components of Greek lagoonal ecosystems: an overview. **Mediterranean Marine Science** 6: 31-50. (Impact Factor 2010: 0.568)

17. Karyotis Th., **Orfanidis S.**, Reizopoulou S. 2006. Marine benthic macrophytes as possible nitrogen source in agriculture. **J. Plant Nutrient Soil Science** 169: 1-7. (Impact Factor 2008: 1.284)

18. Brodie J., Bartsch I., Neefus C., **Orfanidis S.**, Bray T., Mathieson A. 2007. New insights into the cryptic diversity of the North Atlantic-Mediterranean '*Porphyra leucosticta*' complex: *P. olivii* sp. nov. and *P. rosengurtii* (Bangiales, Rhodophyta). **European Journal of Phycology** 42: 3-28. (Impact Factor 2010: 1.826)

19. **Orfanidis S.** 2007. Comments on the development of new macroalgal indices to assess water quality within the Mediterranean Sea. **Marine Pollution Bulletin** 56: 626-627. (Impact Factor 2010: 2.582)

20. **Orfanidis S.**, Papathanasiou V., Gounaris S. 2007. Body size descriptor of *Cymodocea nodosa* indicates anthropogenic stress in coastal ecosystems. **Transitional Waters Bulletin** 2: 1-7.

21. **Orfanidis S.**, Papathanasiou V., Sabetta L., Pinna M., Gigi V., Gounaris S., Tsiagga E., Nakou K., Theodosiou TH. 2007. Benthic macrophyte communities as bioindicators of transitional and coastal waters: relevant approaches and tools. **Transitional Waters Bulletin** 3: 45-49.

22. Sangiorgio F., Basset A., Pinna M., Sabetta L., Abbiati M., Ponti M., Minocci M., **Orfanidis S.**, Nicolaidou A., Moncheva S., Trayanova A., Georgescu L., Dragan S., Beqiraj S., Koutsoubas D., Evagelopoulos A., Reizopoulou S. 2007. Ecosystem processes: litter breakdown patterns in Mediterranean and Black Sea transitional waters. **Transitional Waters Bulletin** 3: 51-55.

23. Christophoridis A., Stamatis N., **Orfanidis S.** 2007. Sediment heavy metals of a Mediterranean coastal lagoon: Agiasma, Nestos Delta, Eastern Macedonia (Greece). **Transitional Waters Bulletin** 4: 33-43.

24. **Orfanidis S.**, Reizopoulou S., Basset, A. 2008. Transitional states in transitional waters. **Aquatic Conservation: Marine and Freshwater Ecosystems** 18: S1-S3 (Editorial). (Impact Factor 2010: 1.619)

25. Sangiorgio F., Basset A., Pinna M., Sabetta L., Abbiati M., Ponti M., Minocci M., **Orfanidis S.**, Nicolaidou A., Moncheva S., Trayanova A., Georgescu L., Dragan S., Beqiraj S., Koutsoubas D., Evagelopoulos A., Reizopoulou S. 2008. Environmental factors affecting *Phragmites australis* litter decomposition in Mediterranean and Black Sea transitional waters. **Aquatic Conservation: Marine and Freshwater Ecosystems** 18: S16-S26. (Impact Factor 2010: 1.619)

26. **Orfanidis S.**, Pinna M., Sabetta L., Stamatis N., Nakou K. 2008. Variation of structural and functional metrics in macrophyte communities within two habitats of eastern Mediterranean coastal lagoons: natural versus human effects. **Aquatic Conservation: Marine and Freshwater Ecosystems** 18: S45-S61. (Impact Factor 2010: 1.619)

27. Ponti M., Pinna M., Basset A., Moncheva S., Trayanova A., Georgescu L.P., Beqiraj S., Orfanidis S., Abbiati M. 2008. Quality assessment of Mediterranean and Black Sea transitional waters: comparing responses of benthic biotic indices. **Aquatic Conservation: Marine and Freshwater Ecosystems** 18: S62-S75. (Impact Factor 2010: 1.619)

28. Viaroli P., Bartoli M., Giordani G., Naldi M., **Orfanidis S.**, Zaldivar JM. 2008. Community shifts, alternative stable states, biogeochemical controls and feedbacks and in eutrophic coastal lagoons: a brief review. **Aquatic Conservation: Marine and Freshwater Ecosystems** 18: S105-S117. (Impact Factor 2010: 1.619)

29. Faulwetter S., Gotsis P., Reizopoulou S., Orfanidis S., Kevrekidis Th., Nicolaidou A., Simboura N., Malea P., Dounas K., Mogias A., Valavanis V., Arvanitidis A. 2008. EINet: The Greek biodiversity transitional waters information system. An exemplar for the development of distributed information networks in Europe. **Aquatic Conservation: Marine and Freshwater Ecosystems** 18: S135-S142.

(Impact Factor 2010: 1.619)

30. Orlando-Bonaca M., Lipej L., **Orfanidis S.** 2008. Benthic macrophytes as a tool for delineating, monitoring and assessing ecological status: The case of Slovenian coastal waters. **Marine Pollution Bulletin** 56: 666–676. (Impact Factor 2010: 2.582)
31. Walker R.H., Brodie J., Russell S., Irvine L.M., **Orfanidis S.** 2009. Biodiversity of coralline algae in the northeastern Atlantic including *Corallina caespitosa* sp. nov. (Corallinoideae, Rhodophyta). **Journal of Phycology** 45: 287-297. (Impact Factor 2010: 2.811)
32. **Orfanidis S.**, Papathanasiou V., Gounaris S., Theodosiou Th. 2009. Size distribution approaches for monitoring and conservation of coastal *Cymodocea* habitats. **Aquatic Conservation: Marine and Freshwater Ecosystems** 20: 177–188. (Impact Factor 2010: 1.619)
33. Vandepitte et al. (60 authors including **S. Orfanidis**) 2010. Data integration for European marine biodiversity research: creating a database on benthos and plankton to study large-scale patterns and long-term changes. **Hydrobiologia** 644: 1–13. (Impact Factor 2008: 1.449)
34. Spatharis S., **Orfanidis S.**, Panayotidis P., Tsirtsis G. 2011. Assembly processes in upper subtidal macroalgae: The effect of wave exposure. **Estuarine Coastal and Shelf Science** 91: 298-305. (Impact Factor 2008: 1.970)
35. **Orfanidis S.**, Panayotidis P., Ugland K., 2011. Ecological Evaluation Index continuous formula (EEI-c) application: a step forward for functional groups, the formula and reference condition values. **Mediterranean Marine Science** 12: 199-231. (Impact Factor 2010: 0.568)

Scientific publications in book chapters-monographs

1. Nicolaidou A., Reizopoulou S., Koutsoubas D., **Orfanidis S.**, Kevrekidis Th. 2005. Lagoons. In *State of the Hellenic Environment*, Chapter VI. *Biota of the sea bed*, 211-219 pp. (Eds, Papathanassiou E., Zenetos A.), HCMR Publication.
2. **Orfanidis S.**, Panayotidis P., Siakavara A. 2005. Benthic macrophytes: main trends in diversity and distribution. In *State of the Hellenic Environment*, Chapter VI. *Biota of the sea bed*, 226-235 pp. (Eds, Papathanassiou E., Zenetos A.), HCMR Publication.
3. Simboura N., **Orfanidis S.**, Zenetos A. 2005. Ecological status and trends. In *State of the Hellenic Environment*, Chapter VI. *Biota of the sea bed*, 343-352 pp. (Eds, Papathanassiou E., Zenetos A.), HCMR Publication.
4. Basset A., Marchiori S., Sangiorgio F., Medagli P., **Orfanidis S.** 2009. The lake of Cesine. In *Flora and Vegetation of the Italian Transitional Water Systems*, 183-187 pp. (Eds, Cecere E., Pertocelli A., Izzo G., Sfriso A.), CORILA Publication.
5. Basset A., Marchiori S., Sangiorgio F., Medagli P., **Orfanidis S.** 2009. The lake of Alimini Grande. In *Flora and Vegetation of the Italian Transitional Water Systems*, 189-194 pp. (Eds, Cecere E., Pertocelli A., Izzo G., Sfriso A.), CORILA Publication.

Publications in booklets

1. **Orfanidis S.** 2009. Perspectives of seaweed aquaculture in Greece: New products, clean coasts, protection of biodiversity. Ministry of Rural Development & Food, General Direction of Fisheries, Direction of Aquaculture & Inland Waters, 45 pp.

VI. LABORATORY INFRASTRUCTURE

