Curriculum Vitae-Avramopoulos Aggelos

I. PERSONAL INFORMATION

Family Name, First Name Avramopoulos Aggelos

Place, Date of birth Athens, 27th February 1973

Gender Male

Marital Status Married with two children

E-mail aavramopoulos@uth.gr ; aavram@eie.gr

II. EDUCATION

1. PhD (2000 – 2004): 17-5-2004, Department of Chemistry, Physical Chemistry Section, National and Kapodistrian University of Athens,Greece, (http://thesis.ekt.gr/thesisBookReader/id/22358#page/1/mode/2up); **2. MSc (1998 – 2000)**: 6-11-2000, Department of Chemistry, Physical Chemistry Section, National and Kapodistrian University of Athens,Greece ;**3. BSc (1992 – 1998)**: Department of Physics, University of Ioannina, Greece.

III. CURRENT POSITION: Assistant Professor (tenured), Department of Physics, University of Thessaly, Field of expertize, "Advanced Computational Methods for the Design of Materials with non-linear optical character", government gazette: ΦΕΚ, 537/10-04-2019, τ. Γ', and ΦΕΚ, 410/10-04-2020, τ. Γ', ΦΕΚ 2114/31-08-2022 (tenure position)

IV. PREVIOUS POSITIONS: i) 2004 – 2018, Computational Chemistry Group, Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation, Athens, Greece, Post-Doc researcher and Research Associate (participation in high competitive research projects funded by EU and national funds) ii)15/06/2007 – 17/08/2007, 4/07/2011-4/08/2011, Institute de Quimica Computational i Catalisi, University of Girona, Spain, Research Associate; iii) 3/07/2008-3/08/2008, Department of Earth Sciences, Laboratory of First Principles Simulations in Earth Sciences, University of Cambridge, Post-Doc researcher; iv)14/06/2009-14/07/2009, Department of Earth Sciences, Laboratory of First Principles Simulations in Earth Sciences, University of Cambridge, Post-Doc researcher, v) 25/7/2013 – 1/8/2013, L 'Équipe de Chimie Physique University of Pau, France, Research Associate

V. TEACHING ACTIVITIES

1. 2004 – 2020 Department of Informatics and Computer Technology, Faculty of Applied Sciences, Technological Education Institute of Sterea Ellada, and University of Thessaly (2019-2020) i) Electronic Physics, ii) Introduction in Electric Circuits, iii) Combinational Design Circuits, iv) Sequential Design Circuits, iv) Microprocessors and Microcontrollers (programming in assembly language) v) Digital Systems I/II, vi) Computer-aided design of circuits, vii) Physics.

2. 2020-2022 Department of Physics, University of Thessaly. Undergraduate Courses: i) Laboratory exercises in Electromagnetic Physics, Quantum Physics, ii) General Physics I (Theory), iii) Quantum Theory II (Theory).

Teaching at the Postgraduate level: MSc program in Applied Physics, Department of Physics : I.) Physics and Chemistry of Materials, II) Scientific Computations in Materials Science, III) Computational Techniques and Algorithms,

Supervision of 20 Bachelor Thesis, **Main Supervisor** of 1 PhD Thesis (in progress), Member of the Advisory Board Committee in 3 PhD thesis (in progress)

VI. RESEARCH INTERESTS and ACTIVITIES

Computational Quantum Chemistry, Molecular Physics, Linear and Non-Linear Optical Properties of Organic/Inorganic materials, development and application of methods for the elucidation of mechanisms related with Linear and Non-Linear Optical Properties of molecules and molecular materials. Design of

Molecular Materials for applications in Photonics and Materials Science. Theoretical and Computational nano-physics and chemistry, Computational drug design. **REVIEWER** of research articles for ACS, Wiley, Elsevier, Royal Society of Chemistry, MDPI, **EVALUATOR of RESEARCH PROPOSALS** for GRNET, IRIS (Cyprus) and UEFISCDI (Romania). **Talks in Conferences**: 13. I have organized **4** symposia and **1** workshop. **Guest Editor:** International Journal of Molecular Sciences, topic of special issue: Computational Design of Materials for Applications (Drugs, Photonics), https://www.mdpi.com/journal/ijms/special_issues/Drugs_Photonics; **Outstanding Peer Reviewer for J. Mat Chem C, 2020 (** https://www.rsc.org/journals-books-databases/author-and-reviewer-hub/reviewer-information/outstanding-peer-reviewers/2020/journal-of-materials-chemistry-c/)

Member of the Advisory Board Committee at the PostGraduate Program "Applied Physics", Department of Physics.

Member of the Editorial Board of PhysChem, MDPI (https://www.mdpi.com/journal/physchem/editors)

Member of the Editorial Board of Physical Chemistry, Scientific World Journal, Hidawi (https://www.hindawi.com/journals/tswj/editors/)

VII. PUBLICATIONS

Overview: **51** publications in peer-review journals, **2** publications in non-peer review journals, **11** publications in conferences proceedings, **5** publications in book chapters.

Number of citations (non-self citations excluding all co-authors): **1113 (855)** (retrieved from Scopus, 12/9/2022, author ID:56030091400), h-index:**20(17)**, Total Citations in Google Scholar: **1250**, h-index:**21** (https://scholar.google.com/citations?hl=el&user=bMSxGDQAAAAJ),ORCID: http://orcid.org/0000-0002-0916-8235.

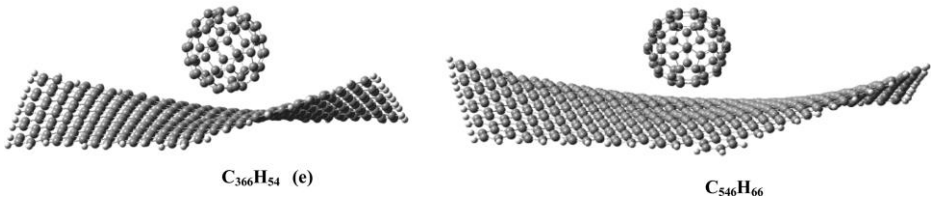
Relevant Publications

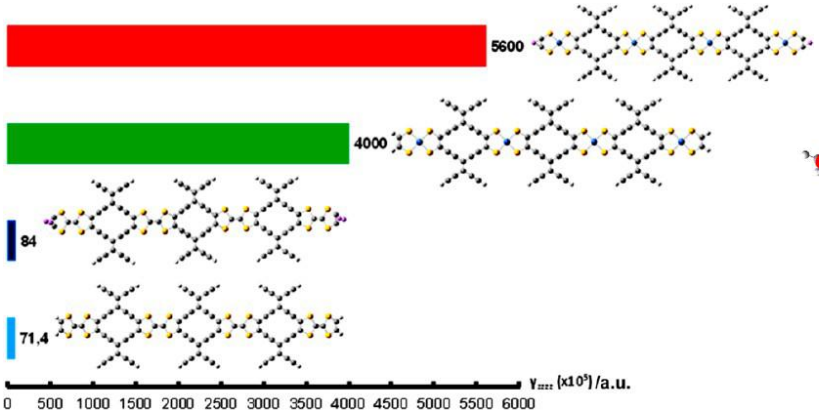
1. G. Megariotis et al., *J. Mol. Graph.Model.,* **117,** 108305, 2022
2. P. Aloukos et al., *Mat. Chem. Phys., **128,*** 126057,2022
3. B. Squeo, **A. Avramopoulos** et al., *Electronic Materials,* **2,** 24, 2021
4. G, Megariotis *et al., J. Mol. Grah Model.,* **107,** 107972, 2021
5. **A. Avramopoulos** *et al.***,** *J. Phys. Chem C,* **124,** 4221, 2020
6. P. Banerjee *et al.*, *Chem. Phys. Lett.,* **16,** 91, 2019;
7. **A. Avramopoulos** *et al.***,** *J. Mat. Chem. C.,* **6,** 91, 2018;
8. T. Miletic et al., *Chem.Eur.J.* **23,** 2363, 2017;
9. **A. Avramopoulos** *et al.*, *J. Phys. Chem. C.,* **120,** 9419, 2016.
10. K. D. Papavasileiou et al., *J. Mol. Craph. Model.,* **74,** 177, 2017.
11. **A. Avramopoulos** et al. *J. Phys. Chem A.,* **120,** 284, 2016.
12. G. Leonis et al., *J. Phys. Chem B.* **119,** 14971, 2015.
13. P. Karamanis et al. *J. Comp. Chem.* **35,** 829, 2014.
14. B. J. Coe et al. *Chem Eur. J.,* **19,** 15955, 2013.
15. **A. Avramopoulos** et al. *J. Comp. Chem.* **34,** 1446,2013.

VIII. RESEARCH HIGHLIGHTS

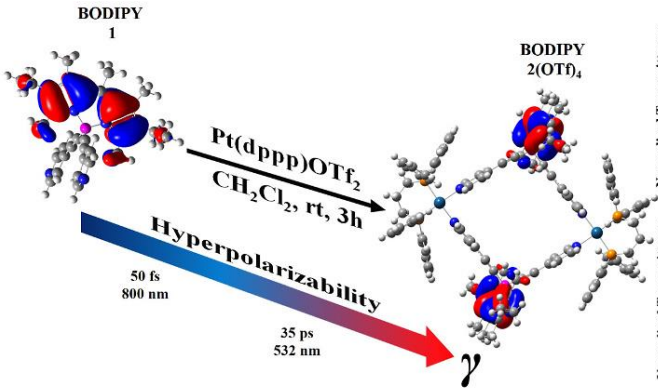
I. Non-Linear Optical Properties of Molecular Materials with the use of First Principles Methods: Structure-Property relationship, Design of Efficient NLO structures

J Phys Chem A **2016**;120(2):284-98.

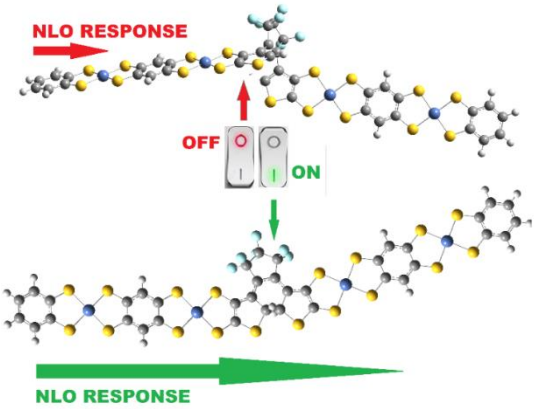




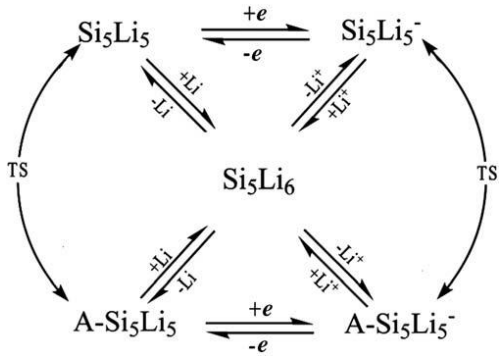
J Phys Chem C **2016**;120(17):9419-35.



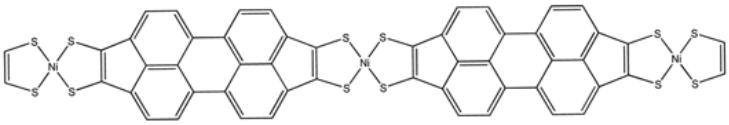
Mat. Chem. Phys **128,** 126057,**2022**



J. Phys. Chem C, **2020**, 124,4221-424



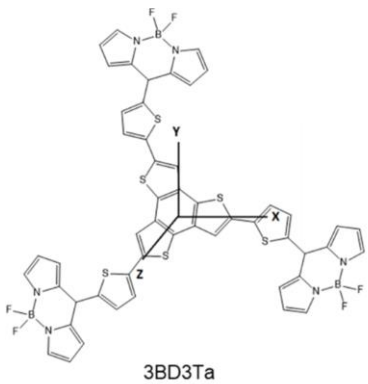
J.Comp. Chem., **35,** 829-838, **2014**



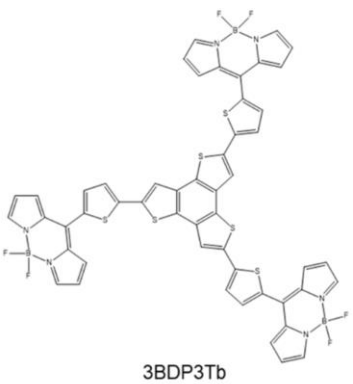
J Mat. Chem C. **2018**, 6,91-110

Electron. Mater. **2021**, *2*, 24-38.

https://doi.org/10.3390/electronicmat2010003



3BD3Ta



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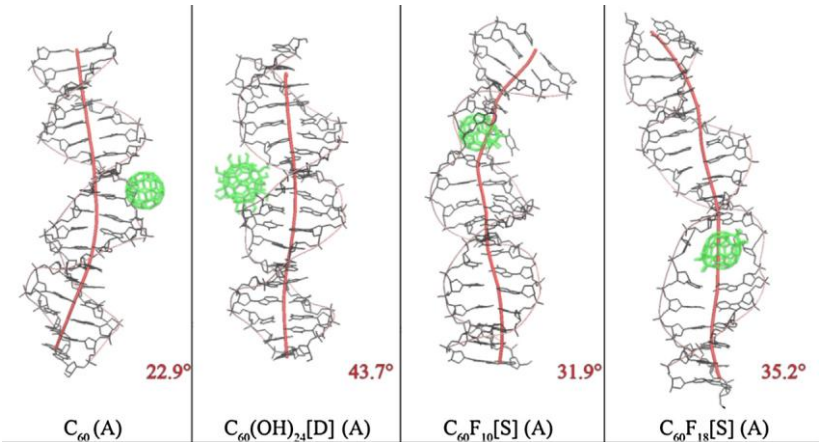
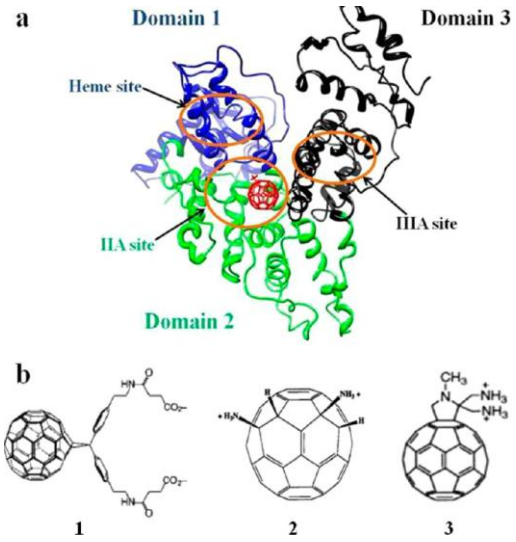
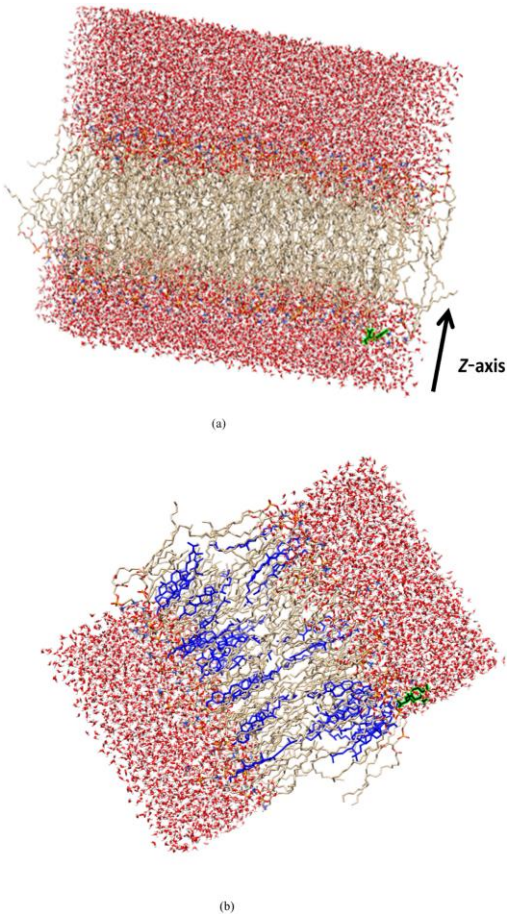
II. Interactions of Nanoparticles with Biological Systems



J Mol Graph Model **2017**;74:177-92.



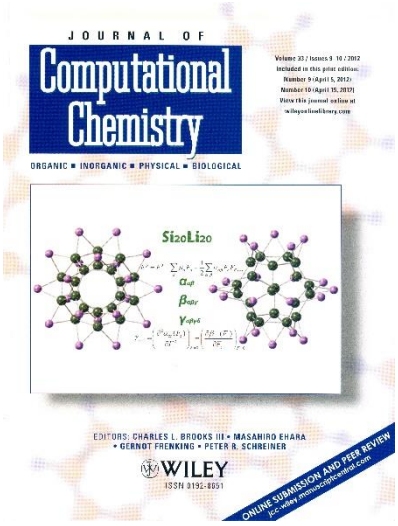
J Phys Chem B **2015**;119(48):14971-85.



J. Mol. Graphics Modell. , **2021**,107,107972

IX. JOURNAL COVERS

Structural and static electric response properties of highly symmetric lithiated silicon cages: Theoretical predictions , *J. Comp. Chem.* Volume: 33 Issue: 10 Pages: 1068-1079,2012



Significant Non-Linear Optical Switching Capacity in Atomic Clusters Built from Silicon and Lithium. A Combined *ab -initio* and Density Functional Study, *Journal of Computational Chemistry*, **35,** 829-838, 2014