**CURRICULUM VITAE**

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Scientific Metrics– May 2020

Articles in International Journals: **131**, Reviewed Conference Proceedings: **20**, Collaborative Volumes: **3**, Conference Abstracts: **151**, Educational notes: **3**.

Citations-Self Citations (Scopus)**:** **6320-6105**. h-index: **36**.

**Work Experience:**

2019-today **Associate Professor at the Dept. of Physics, School of Applied Mathematics and Physical Sciences, (S.E.M.F.E.) of National** **Technical Univ. of Athens** **NTUA** with educational activity and research work in optical spectroscopy and electrical characterization of solid state materials and devices (2019-today).

* 1. **Director of Research** at theInstitute of Nanoscience and Nanomaterials (INN), **NCSR Demokritos.** Research is based on photocatalysis, hydrophilicity, dye sensitized and perovskite solar cells and characterization of materials with spectroscopic, optical and microscopic methods.

*1996-2008*  **Lecturer – Researcher in the SEMFE-NTUA**

Working as a lecturer with the task of organising new Undergraduate Laboratories and teaching Experimental Physics; I was co-author in several experimental booklets. I carried out extensive spectroscopic research on bulk semiconductors, hetero-structures, multi-layer structures and micro­electro­nic devices. The research work was developed as a part of se­veral national research programs and international co-operations.

*2002-* **Assistant****Researcher in the Institute of Physical Chemistry, NCSR, Demokritos.**

Performing structural, optical and photoelectrochemical characterization of dye sensitized solar cells and photocatalytic materials. The research work was funded by national and European projects.

1999-2002 **Associate Professor under a 3 years contract in the Dept. of Mechanical and Industrial Engineering,** **Univ. of Thessaly,**

Teaching Electromagnetism and Optics to 2nd year Under­graduate students and directing the Physics Undergraduate Laboratory.

**Degrees and Research Activities:**

*1990-1994* **University of Warwick, U.K.**

PhD in Experimental Solid State Physics.

Thesis title: “An 89Y and 63Cu NMR study of some high-Tc superconductors”

*1989-1990* **University of Athens** in collaboration with the

**Hellenic National Research Centre “Demokritos*”***.

Research student on Solid State Physics.

Research topic: “EPR study of high-Tc superconductors”.

*1985-1989* **University of Athens, Greece**.

B.Sc. Degree in Physics ('7.8, Very good' classification).

**Distinctions and Titles:**

*1990-1994* Scholar of the Greek state Scholarship Foundation.

*1990-1994* President of the Greek society of the University of Warwick.

*2002-* Referee in international scientific journals (Appl. Surf. Sc., Phys. Stat. Sol., J. Chem. Techn. Biotechn., J. Phys. Chem., J. Phys. Chem. Sol., J. Cryst. Growth, Electrochimica Acta, Hazard. Mat., Envir. Sc. & Techn., J. Raman Spectr. Nanoscale Res. Lett., Chem. Engin. J., Catal. Today e.t.c.) - member of the organizing committees of national conferences.

Publication List

1. “Temperature effects on the vibrational properties of the Cs2SnX6 ‘defect’ perovskites (X = I, Br, Cl)” G.V. Belessiotis, M. Arfanis, A. Kaltzoglou, V. Likodimos, Y.S. Raptis, P. Falaras, A.G. Kontos, <https://doi.org/10.1016/j.matchemphys.2021.124679> Mater Chem Phys 267 (2021) 124679. (129)
2. “Structuring efficient photocatalysts into bespoke fiber shaped systems for applied water treatment”, G.V. Theodorakopoulos, G.E. Romanos. F.K. Katsaros, S.K. Papageorgiou, S.K., A.G. Kontos, M. Beazi-Katsioti, P. Falaras, https://doi.org/10.1016/j.chemosphere.2021.130253 Chemosphere **277** (2021) 130253. (128)
3. “The synergistic effect on the thermomechanical and electrical properties of carbonaceous hybrid polymer nanocomposites”, Ι. Charitos, G. Georgousis, P. A. Klonos, A. Kyritsis, D. Mouzakis, Y. Raptis, A. G. Kontos, E. Kontou, 10.1016/j.polymertesting.2021.107102 Polymer Testing **95** (2021) 107102. (127)
4. “Effect of Pt nanoparticle decoration on the H2 storage performance of plasma-derived nanoporous graphene”, N. Kostoglou, C-W Liao, C-Y Wang, J.N. Kondo, C. Tampaxis, T. Steriotis, K. Giannakopoulos, A.G. Kontos, S. Hinder, M. Baker, E. Bousser, A. Matthews, C. Rebholz, C. Mitterer, 10.1016/j.carbon.2020.08.061 Carbon **171** (2021) 294-305.(126)
5. “Correlating vibrational properties with temperature and pressure dependent CO2 adsorption in zeolitic imidazolate frameworks”, A.G. Kontos, G.Em. Romanos, C.Μ. Veziri, A. Gotzias, M.K. Arfanis, E. Kouvelos, V. Likodimos, G.N. Karanikolos, P. Falaras, <https://doi.org/10.1016/j.apsusc.2020.147058> Applied Surface Science **529** (2020) 147058. (125)
6. “Magnetically separable TiO2/CoFe2O4/Ag nanocomposites for the photocatalytic reduction of hexavalent chromium pollutant under UV and artificial solar light”, I. Ibrahim, A. Kaltzoglou, C. Athanasekou, F. Katsaros, E. Devlin, A.G. Kontos, N. Ioannidis, M. Perraki, P. Tsakiridis, L. Sygellou, M. Antoniadou, P. Falaras, 10.1016/j.cej.2019.122730 Chem. Engin. J. **381** (2020) 122730. (124)
7. “Halogen−NH2+ Interaction, Temperature-Induced Phase Transition, and Ordering in (NH2CHNH2)PbX3 (X = Cl, Br, I) Hybrid Perovskites”, A.G. Kontos, G.K. Manolis, A. Kaltzoglou, D. Palles, E.I. Kamitsos, M.G. Kanatzidis, P. Falaras, 10.1021/acs.jpcc.9b11334 J. Phys. Chem. C **124** (2020) 8479−8487. (123)
8. K.E. Gkini, M. Antoniadou, N. Balis, A. Kaltzoglou, A.G. Kontos, P. Falaras, “Mixing cations and halide anions in perovskite solar cells”, 10.1016/j.matpr.2019.07.660 Mater. Today: Proc. **19** (2019) 73–78. (\*) (122)
9. “Synthesis, characterization of ((CH3)3S)2SnI6-nCln and ((CH3)3S)2SnI6-nBrn (n=1, 2) perovskites and use in dye-sensitized solar cells”, M.M. Elsenety, M. Antoniadou, A. Kaltzoglou, A.G. Kontos, A. I. Philippopoulos, C.A. Mitsopoulou, P. Falaras, 10.1016/j.matchemphys.2019.122310 Mat. Chem. Phys. **239** (2020) 122310. (121)
10. “Investigating the role of reduced graphene oxide as a universal additive in planar perovskite solar cells”, N. Balis, A.A. Zaky, C. Athanasekou, A.M.T. Silva, E. Sakellis, M. Vasilopoulou, T. Stergiopoulos, A.G. Kontos, P. Falaras, 10.1016/j.jphotochem.2019.112141 J. Photochem. Photob. A: Chem. **386** (2020) 112141. (120).
11. “Photocatalysis as an advanced reduction process (ARP): The reduction of 4- nitrophenol using titania nanotubes-ferrite nanocomposites”,Ibrahim, I., Athanasekou, C., Manolis, G., Kaltzoglou, A., Nasikas, N.K., Katsaros, F., Devlin, E., Kontos, A.G., Falaras P. [10.1016/j.jhazmat.2018.12.090](https://doi.org/10.1016/j.jhazmat.2018.12.090) J Hazardous Mater. 372 (2019) 37–4.4 (119)
12. “Synthesis and Characterization of Lead-Free (CH3)3SSnI3 1-D Perovskite”A. Kaltzoglou, G.K. Manolis, M.M. Elsenety, I. Koutselas, V. Psycharis, A.G. Kontos, P. Falaras, 10.1007/s11664-019-07591-y J. Electr. Mater., **48** (2019) 7533-7538 (118)
13. “Dye Sensitization of Titania Compact Layer for Efficient and Stable Perovskite Solar Cells”, Balis, N., Zaky, A.A., Perganti, D., Kaltzoglou, A., Sygellou, L., Katsaros, F., Stergiopoulos, T., Kontos, A.G., Falaras, P., ACS Appl. Energy Mater., 10.1021/acsaem.8b01221 **1** (2018) 6161–6171. (117)
14. “Dynamic Disorder, Band Gap Widening, and Persistent Near-IR Photoluminescence up to at least 523 K in ASnI3 Perovskites (A = Cs+, CH3 NH3+ and NH2 -CHNH2+)” Kontos, A.G., Kaltzoglou, A., Arfanis, M.K., McCall, K.M, Stoumpos, C.C, Wessels, B.W., Falaras, P., Kanatzidis, M.G., J. Phys. Chem. C 10.1021/acs.jpcc.8b10218 **122** (2018) 26353-26361. (116)
15. “Photocatalytic properties of copper—Modified core-shell titania nanocomposites” Arfanis, M.K., Athanasekou, C.P., Sakellis, E., Boukos, N, Ioannidis, N., Likodimos, V., Sygellou, L., Bouroushian, M., Kontos, A.G., Falaras, P. J. Photochem. Photobiol. A: Chem. 10.1016/j.jphotochem.2018.10.051 **370** (2019) 145-155. (115)
16. “Defect Perovskites under Pressure: Structural Evolution of Cs2SnX6 (X = Cl, Br, I)” Bounos, G., Karnachoriti, M., Kontos, A.G., Stoumpos, C.C., Tsetseris, L., Kaltzoglou, A., Guo, X., Lü, X., Raptis, Y.S., Kanatzidis, M.G., Falaras, P., J. Phys. Chem. C 10.1021/acs.jpcc.8b08449 **122** (2018) 24004-24013. (114)
17. “Triazine-Substituted Zinc Porphyrin as an Electron-Transport Interfacial Material for Efficiency Enhancement and Degradation Retardation in Planar Perovskite Solar Cells”, Balis, N., Verykios, A., Soultati, A., Constantoudis, V., Papadakis, M., Kournoutas, F., Drivas, C., Skoulikidou, M.C., Gardelis, S., Fakis, M., Kennou, S., Kontos, A.G., Coutsolelos, A.G., Falaras, P., Vasilopoulou M., ACS Appl. Energy Mater. 10.1021/acsaem.8b00447 **1** (2018) 3216–3229. (113)
18. “Novel combustion synthesis of carbon foam‑aluminum fluoride nanocomposite materials”, N. Kostoglou, I.E. Gunduz, T. Isik, V. Ortalan, G. Constantinides, A.G. Kontos, T. Steriotis, V. Ryzhkov, E. Bousser, A. Matthews, C. Doumanidis, C. Mitterer, C. Rebholz, Materials & Design [10.1016/j.matdes.2018.02.021](https://doi.org/10.1016/j.matdes.2018.02.021) **144** (2018) 222-228. (112)
19. “Synthesis, characterization and use of highly stable trimethyl sulfonium tin(IV) halide defect perovskites in dye sensitized solar cells” Elsenety, M.M., Kaltzoglou, A., Antoniadou, M., Koutselas, I., Kontos, A.G., Falaras, P. Polyhedron 10.1016/j.poly.2018.05.001 **150** (2018) 83-91. (111)
20. ‘Combining dc and ac electrochemical characterization with micro Raman analysis on industrial DSCs under accelerated thermal stress’ Hu, J., Kontos, A.G., Georgiou, C.A., Bidikoudi, M., Stein, N., Breen, B., Falaras, P. Electrochimica Acta, 10.1016/j.electacta.2018.03.125 271C **271** (2018) 268-275. (110
21. “Synthesis, characterization and optoelectronic properties of chemically stable (CH3)3SPbI3-xBrx and (CH3)3SPbI3-xClx (x = 0, 1, 2, 3) perovskites” A. Kaltzoglou, M.M. Elsenety, I. Koutselas, A.G. Kontos, K. Papadopoulos, V. Psycharis, C. P. Raptopoulou, D. Perganti, T. Stergiopoulos, P.Falaras, Polyhedron, [10.1016/j.poly.2017.11.030](https://doi.org/10.1016/j.poly.2017.11.030) [**140**](https://www.sciencedirect.com/science/journal/02775387/140/supp/C) (2018) 67-73. (109)
22. “Trimethylsulfonium Lead Triiodide: An Air-Stable Hybrid Halide Perovskite”, Kaltzoglou, A.; Stoumpos, C. C.; Kontos, A. G.; Manolis, G. K.; Papadopoulos, K.; Papadokostaki, K. G.; Psycharis, V.; Tang, C. C.; Jung, Y. K.; Walsh, A.; Kanatzidis, M. G.; Falaras, P., Inorg. Chem. 10.1021/acs.inorgchem.7b00395 **56** (2017) 6302-6309. (108)
23. “Slow-photon enhancement of dye sensitized TiO2 photocatalysis”, A. Toumazatou, M.K. Arfanis, P-A. Pantazopoulos, A.G. Kontos, P. Falaras, N. Stefanou, V. Likodimos, 10.1016/j.matlet.2017.03.128 Materials Letters **197** (2017) 123–126 (107)
24. “Cost-efficient platinum-free DSCs using colloidal graphite counter electrodes combined with D35 organic dye and cobalt (II/III) redox couple, D. Perganti, M. Giannouri, A.G. Kontos, P. Falaras, 10.1016/j.electacta.2017.02.154 Electrochimica Acta **232** (2017) 517–527. (106)
25. “Copper nanowire coated carbon fibers as efficient substrates for detecting designer drugs using SERS”, V. Halouzka, B. Halouzkova, D. Jirovsky, D. Hemzal, P. Ondra, E. Siranidi, A.G. Kontos, P. Falaras, J. Hrbac, 10.1016/j.talanta.2016.12.084 Talanta **16** (2017) 384–390. (105)
26. “Structural Stability, Vibrational Properties, and Photoluminescence in CsSnI3 Perovskite upon the Addition of SnF2”, A.G., Kaltzoglou, A., Siranidi, E., Palles, D., Angeli, G.K., Arfanis, M.K., Psycharis, V., Raptis, Y.S., Kamitsos, E.I., Trikalitis, P.N., Stoumpos, C.C., Kanatzidis, M.G., Falaras, Inorg. Chem. 10.1021/acs.inorgchem.6b02318 **56** (2017) 84−91. (104)
27. “Photocatalytic degradation of salicylic acid and caffeine emerging contaminants using titania nanotubes”, M.K. Arfanis, P. Adamou, N.G. Moustakas, T.M. Triantis, A.G. Kontos, P. Falaras, Chem. Engin. J. [10.1016/j.cej.2016.06.098](http://dx.doi.org/10.1016/j.cej.2016.06.098) **310** (2017) 525-536. (100)
28. “Reentrant Structural and Optical Properties and Large Positive Thermal Expansion in Perovskite Formamidinium Lead Iodide”, D.H. Fabini, C.C. Stoumpos, G. Laurita, A. Kaltzoglou, A.G. Kontos, P. Falaras, M.G. Kanatzidis, R. Seshadri, 10.1002/anie.201609538 Angew. Chem. Int. Ed. **55** (2016) 15392 –15396. (103)
29. “Stress tests on dye-sensitized solar cells with the Cs2SnI6 defect perovskite as hole-transporting material”, A. Kaltzoglou, D. Perganti, M. Antoniadou, A.G. Kontos, P. Falaras, Energy Propedia, 10.1016/j.egypro.2016.11.317 **102** (2016) 49–55. (102)
30. “Dynamic stereochemical activity of the Sn2+ lone pair in perovskite CsSnBr3”, Fabini, D., Laurita, G., Bechtel, J., Stoumpos, C., Evans, H., Kontos, A. G., Raptis, Y., Falaras, P. Van der Ven, A., Kanatzidis, M., Seshadri, R. J. Am. Chem. Soc., 10.1021/jacs.6b06287 **138** (2016) 11820–11832. (99)
31. “Dehydration of molybdenum oxide hole extraction layers via microwave annealing for the improvement of efficiency and lifetime in organic solar cells”, A. Soultati, I. Kostis, P. Argitis, D. Dimotikali, S. Kennou, S. Gardelis, T. Speliotis, A.G. Kontos, D. Davazoglou, M. Vasilopoulou, J. Mater. Chem. C, 10.1039/C6TC02259F **4** (2016) 7683-7694. (98)
32. “Electrodeposited Cobalt-Copper Sulfide Counter Electrodes for Highly Efficient Quantum Dot Sensitized Solar Cells”, L. Givalou, M. Antoniadou, D. Perganti, M. Giannouri, C-S. Karagianni, A.G. Kontos, P. Falaras, Electrochimica Acta, 10.1016/j.electacta.2016.05.191 **210** (2016) 630–638. (97)
33. “Carbon nanotubes growth on expanded perlite particles via CVD method: The influence of the substrate morphology “,G. Pilatos, M. Samouhos, P. Angelopoulos, M. Taxiarchou, Ch. Veziri, R. Hutcheon, P. Tsakiridis, A.G. Kontos, Chem. Engin. J. 10.1016/j.cej.2016.01.112 **291** (2016) 106-114 (96)
34. "Optical-Vibrational Properties of the Cs2SnX6(X = Cl, Br, I) Defect Perovskites and Hole-Transport Efficiency in Dye-Sensitized Solar Cells" A. Kaltzoglou, M. Antoniadou, A.G. Kontos, C. Stoumpos, D. Perganti, E. Siranidi, V. Raptis, K. Trohidou, V. Psycharis, M. Kanatzidis, P. Falaras, J. Phys. Chem. C 10.1021/acs.jpcc.6b02175 **120** (2016) 11777−11785. (95)
35. “Halogen Effects on Ordering and Bonding of CH3NH3+ in CH3NH3PbX3 (X = Cl, Br, I) Ηybrid Perovskites: A vibrational spectroscopic study”, R. G. Niemann, A.G. Kontos, D. Palles, E.I. Kamitsos, A. Kaltzoglou, F. Brivio, P. Falaras, P.J. Cameron, J. Phys. Chem. C, 10.1021/acs.jpcc.5b11256 **120** (2016) 2509–2519. (94)
36. “Mixed-halide Cs2SnI3Br3 perovskite as low resistance hole-transporting material in dye-sensitized solar cells”, A. Kaltzoglou, M. Antoniadou, D. Perganti, E. Siranidi, V. Raptis, K. Trohidou, V. Psycharis, A. G. Kontos, P. Falaras, Electrochimica Acta, [10.1016/j.electacta.2015.10.030](https://doi.org/10.1016/j.electacta.2015.10.030) **184** (2015) 466–474. (93)
37. “High boiling point solvent-based dye solar cells pass a harsh thermal ageing test”, T. Stergiopoulos, A. G. Kontos, N. Jiang, D. Milliken, H. Desilvestro, V. Likodimos, P. Falaras, Solar Energy Materials and Solar Cells, [10.1016/j.solmat.2015.09.052](https://doi.org/10.1016/j.solmat.2015.09.052) **144** (2016) 457–466. (92)
38. “Hot-wire vapor deposition of amorphous MoS2 thin films”, G. Papadimitropoulos, N. Vourdas, A. Kontos, M. Vasilopoulou, D.N. Kouvatsos, N. Boukos, A. Gasparotto, D. Barreca, D. Davazoglou, phys. stat. sol. (c) 10.1002/pssc.201510031 **12** (2015) 969–974. (91)
39. “Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties”, N. Kostoglou, V. Tzitzios, A.G. Kontos, K. Giannakopoulos, C. Tampaxis, A. Papavasiliou, G. Charalambopoulou, T. Steriotis, Y. Li, K. Liao, K. Polychronopoulou, C. Mitterer, C. Rebholz, 685210.1016/j.ijhydene.2015.03.053 Int. J. Hydrogen Energy **40** (2015) 6844-6852. (90)
40. “Microscopic study of the corrosion behaviour of mild steel in ionic liquids for CO2 capture applications”, I.S. Molchan, G.E. Thompson, P. Skeldon, R. Lindsay, J. Walton, E. Kouvelos, G. Em. Romanos, P. Falaras, A.G. Kontos, M. Arfanis, E. Siranidi, L.F. Zubeir, M.C. Kroon, J. Klöckner, B. Iliev,T.J.S. Schubert, RSC Advances **5** (2015) 35181-35194. (89)
41. “Thermal Stressing of Dye Sensitized Solar Cells Employing Robust Redox Electrolytes D. Perganti, A.G. Kontos, T. Stergiopoulos, V. Likodimos, J. Farnell, D. Milliken, H. Desilvestro, P. Falaras”, Electrochimica Acta, 10.1016/j.electacta.2015.03.206 **179** (2015) 241-249. (88)
42. “Steps in growth of Nb-doped layered titanates with very high surface area suitable for water purification”, M. Milanović, L.M. Nikolić, I. Stijepović, A.G. Kontos, K.P. Giannakopoulos, Mater. Chem. Phys. **148** (2014) 874–881 (87)
43. “Photovoltaic performance and stability of CH3NH3PbI3−xClx perovskites”, M. Antoniadou, E. Siranidi, N. Vaenas, A.G. Kontos, E. Stathatos, P. Falaras, J. Surf. Interf. Mater., J. Surf. Interfac. Mater. doi:10.1166/jsim.2014.1060, **2** (2014) 1-5. (86)
44. “Experimental Design of Laboratory Measurements for Hydrocarbons, Salts and Dyes Adsorption on Modified Lignocellulosic Materials in Aquatic Media”, G. Apostolopoulos, M. Fardis, Ch. Chandrinou, K. Giannakopoulos, A.G. Kontos, M. Bidikoudi, N. Boukos, P. Falaras, F. Batzias, D. Sidiras, Ch. Siontorou, Chem. Engin. Trans., 39 (2014) 757-762. (85) (\*)
45. “A Ru(II) Molecular Antenna Bearing a Novel Bipyridine-Acrylonitrile Ligand: Synthesis and Application in Dye Solar Cells”, G. Konti, G.C. Vougioukalakis, M. Bidikoudi, A.G. Kontos, C. Methenitis, P. Falaras, Polyhedron, **82** (2014) 12-18. (84)
46. “High performance, sulfur, nitrogen and carbon doped mesoporous anatase-brookite TiO2 photocatylst for the removal of microcystin-LR under visible light irradiation”, S. M. El-Sheikh, G. Zhang, H.M. El-Hosainy, A.A. Ismail, K. O’Shea, P. Falaras, A.G. Kontos, D.D. Dionysiou, J Hazard Mater 10.1016/j.jhazmat.2014.08.038 **280** (2014) 723–733 (83)
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51. “Interaction and Uptake Quantification of CO2 Captured in Zeolitic Imidazolate Frameworks”, A. G. Kontos, V. Likodimos, Ch. M. Veziri, E. Kouvelos, N. Moustakas, G. N. Karanikolos, G. Em. Romanos, P. Falaras, Chem. Sus. Chem., 10.1002/cssc.201301323 (2014) 1696–1702. (78)
52. “Micro-Raman, photoluminescence and photocurrent studies on the photostability of quantum dot sensitized photoanodes”, S. Sfaelou, A.G. Kontos, P. Falaras, P. Lianos, J. Photochem. Photobiol. A: Chem **275** (2014) 127-133. (77)
53. “On the role of aggregation effects in the performance of perylene-diimide based solar cells”, R. Singh, E.Giussani, M.M. Mrόz, F. Di Fonzo, D. Fazzi, J. Cabanillas- González, L. Oldridge, N.Vaenas, A.G. Kontos, P. Falaras, A. C. Grimsdale, J. Jacob, K. Müllen, P. E. Keivanidis, Organic Electronics **15** (2014) 1347–1361. (76)
54. “Study of the stability of quantum dot sensitized solar cells”, S. Sfaelou, A.G. Kontos, L. Givalou, P. Falaras, P. Lianos, Catalysis Today, **230** (2014) 221–226 (75)
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