CURRICULUM VITAE

NAME:	**Zacharias Hatzopoulos**
CURRENT POSITION:	Associate Professor, Physics Department, University of Crete, Greece
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EDUCATION - DEGREES

- 4-year B.Sc. in Physics, Physics Department, Aristotle University of Thessaloniki, 1974
- Diploma in Electronics, University of Wales, Great Britain, 1975
- PhD in Physics, University of Wales. Title: «Dc size effects and electrical conduction in semimetals», 1979

BIOGRAPHICAL

- Military Service in the Greek Army, 1979-1981
- Lecturer-Researcher, Physics Department, University of Crete, 1981-1985
- Lecturer, Physics Department, University of Crete, 1985-1988
- Assistant Professor, Physics Department, University of Crete, 1988-1992
- Assistant Professor with tenure, Physics Department, University of Crete, 1992 –2008
- Associate Professor, Physics Department, University of Crete, 2008-up to now
- Researcher, Foundation for Research and Technology - Hellas, 1984 – up to now

EXPERIENCE / FIELDS OF RESEARCH

My research interests are in the field of MBE grown III-V compound semiconductors (arsenides).

I am heading the III-V Arsenides Molecular Beam Epitaxy activities. I have extensive experience, more than 30 years, in growth with MBE a variety of different devices.

I have been involved in the following research areas:

- Atomic Layer Epitaxy
- Laser Assisted MBE

- Growth of lattice matched InGaAs/InAlAs on InP

I have studied a plethora of devices like HEMTs,MESFETs, Pseudomorphic HEMTs, solid state LEDs, Solar Cells, and Sensors..
I am currently involved with the study of Polariton LEDs, Quantum Dots and Nanowires.
I have over 130 papers publications in refereed Journals and numerous conference presentations and has been involved in several Research Programs (European and Greek) .

OTHER

- Visiting Research Scientist, Naval Research Laboratory, Washinghton D.C., USA
- Visiting Research Scientist, Electrotechnical Laboratory, Tsukuba, Japan
- Co-author, Chapter 18: «Rapid Thermal Processing of Contacts and Buffer Layers for Compound Semiconductor Device Technology». Title of book: «Advances in Rapid Thermal and Integrated Processing», F. Roozeboom (ed.), p. 493, Kluwer Academic (1996)

Recent Publications

Title: Hidden polarization of unpolarized light
Author(s): Kozlov GG , Ryzhov II , Tzimis A , Hatzopoulos Z , Savvidis PG , Kavokin AV , Bayer M, Zapasskii, VS.
Source: Physical Review A, **Volume:**98, **Issue:**4, **Article Number:**043810 **DOI:**10.1103/PhysRevA.98.043810 **Published:** OCT 5 2018

Title: Stochastic spin flips in polariton condensates: nonlinear tuning from GHz to sub-Hz.
Author(s): Redondo YDVI , Ohadi H, Rubo YG, Beer O, Ramsay AJ, Tsintzos SI , Hatzopoulos Z , Savvidis PG, Baumberg,JJ
Source: NEW JOURNAL OF PHYSICS **Volume:** 20 **Article Number:** 089601 **DOI:** 10.1088/1367-2630/aad934 **Published:** AUG 21 2018

Title: Generation of Quantized Polaritons below the Condensation Threshold
Author(s): Cristofolini P, Hatzopoulos Z, Savvidis PG, Baumberg JJ.
Source: PHYSICAL REVIEW LETTERS **Volume:** 121 **Issue:** 6 **Article Number:** 067401 **DOI:** 10.1103/PhysRevLett.121.067401 **Published:** AUG 7 2018

Title: Electrical Tuning of Nonlinearities in Exciton-Polariton Condensates
Author(s): Tsintzos SI , Tzimis A, Stavrinidis G, Trifonov A, Hatzopoulos Z, Baumberg JJ, Ohadi H, Savvidis PG.
Source: PHYSICAL REVIEW LETTERS **Volume:** 121 **Issue:** 3 **Article Number:** 037401 **DOI:** 10.1103/PhysRevLett.121.037401 **Published:** JUL 16 2018

Title: An exciton-polariton bolometer for terahertz radiation detection
Author(s): Paschos GG, Liew TCH, Hatzopoulos Z, Kavokin AV , Savvidis PG , Deligeorgis G.
Source: SCIENTIFIC REPORTS **Volume:** 8 **Article Number:** 10092 **DOI:** 10.1038/s41598-018-28197-0 **Published:** JUL 4 2018

Title: All-optical quantum fluid spin beam splitter
Author(s): Askitopoulos A, Nalitov AV, Sedov ES, Pickup L, Cherotchenko ED, Hatzopoulos Z , Savvidis PG, Kavokin AV, Lagoudakis PG.
Source: PHYSICAL REVIEW B **Volume:** 97 **Issue:** 23 **Article Number:** 235303 **DOI:** 10.1103/PhysRevB.97.235303 **Published:** JUN 6 2018