

## Curriculum Vitae

<b>Name</b>	Panos Patsalas
<b>Position</b>	Professor
<b>Studies</b>	Ph.D. Solid State Physics, AUTH, 2001 B.S. Physics, University of Ioannina, 1996
<b>Scientific Expertise</b>	<ul style="list-style-type: none"> <li>- Physics and Technology of Low-dimensional Solid Systems: Thin and Ultra-Thin Films, Surfaces, Interfaces, Nanostructures and Nanoparticles (Experimental).</li> <li>- Plasmonics, Photonics and Optoelectronics.</li> <li>- Growth of Materials from the Vapor: Chemical (LPCVD, PECVD, MOCVD) and Physical (Sputtering, Pulsed Laser Deposition, e-Beam Evaporation, Ion Beam Deposition) Vapor Deposition.</li> <li>- Growth of Materials from the Liquid: Electrodeposition Laser ablation in liquids, inks' technology for printing.</li> <li>- Microstructure and chemistry of solids using X-ray (Reflectivity, Diffraction, Scattering, Fluorescence) and Electron (AES/SAM, XPS, SEM) techniques.</li> <li>- Radiation-matter interactions; Materials processing with lasers, plasma &amp; ion beams.</li> <li>- Optical Properties and Band Structure of solids.</li> </ul>
<b>Research and Supervision activities</b>	<p>&gt;170 publications in peer-reviewed journals &gt;4100 citations, h-index=33 (source: www.scopus.com)</p> <p>Principal Investigator of 8 R&amp;D projects Principal Supervisor of 11 PhD Theses (8 completed, 3 on-going) Secondary Advisor of 15 PhD Theses Supervisor of 4 Post-doctoral fellows Supervisor of 15 MSc Theses and 18 Dipl. Eng. Theses Supervisor of 6 incoming international students at the MSc, Deng, PhD levels 47 Invited Talks</p>
<b>Scientific/Professional Experience</b>	<p>Member of the Board of Delegates of the European Materials Research Society Assoc. Professor, Department of Materials Engineering, University of Ioannina, Greece Invited Professor, University of Poitiers, France Invited Professor, University of Lorraine at Nancy, France Visiting Professor, Nottingham Trent University, UK Visiting Fellow, Cyprus University of Technology, Cyprus Visiting Researcher, Institut Laue-Langevin, France Visiting Researcher, ISIS Neutron Source, UK Member of Organizing Committees in 14 conferences (including 4 E-MRS, 2 AVS) Reviewer of &gt;40 journals of AAAS, Nature, ACS, ECS, MRS, Elsevier and Wiley Reviewer of Greek, US (NSF), German, Dutch and Israeli R&amp;D proposals</p>
<b>Recent representative publications</b>	<ul style="list-style-type: none"> <li>• Yarali E., Koutsiaki C., Faber H., Tetzner K., Yengel E., <b>Patsalas P.</b>, Kalfagiannis N., Koutsogeorgis D.C., Anthopoulos T.D., Recent Progress in Photonic Processing of Metal-Oxide Transistors, <i>Advanced Functional Materials</i> 30, 1906022 (2020) (<i>Invited Review</i>)</li> <li>• Gioti M., Arvanitidis J., Christofilos D., Chaudhuri K., Zorba T., Abadias G., Gall D., Shalaev V.M., Boltasseva A., <b>Patsalas P.*</b>, Plasmonic and phononic properties of epitaxial conductive transition metal nitrides, <i>Journal of Optics</i> 22, 084001 (2020) (<i>Invited Review</i>)</li> <li>• Lin Y.-H., Li W., Faber H., Seitkhan A., Hastas N.A., Khim D., Zhang Q., Zhang X., Pliatsikas N., Tsetseris L., <b>Patsalas P.</b>, Bradley D.D.C., Huang W., Anthopoulos T.D., Hybrid organic–metal oxide multilayer channel transistors with high operational stability, <i>Nature Electronics</i> 2, 587 (2019)</li> <li>• Kassavetis S., Ozsdolay B.D., Kalfagiannis N., Habib A., Tortai J.-H., Kerdsonpanya S., Sundararaman R., Stchakovsky M., Bellas D.V., Gall D., and <b>Patsalas P.*</b>, Near-Zero Negative Real Permittivity in Far Ultraviolet: Extending Plasmonics and Photonics with B1-MoNx, <i>Journal of Physical Chemistry C</i> 123, 21120 (2019)</li> <li>• Dellis S., Pliatsikas N., Kalfagiannis N., Lidor-Shalev O., Papaderakis A., Vourlias G., Sotiropoulos S., Koutsogeorgis D.C., Mastai Y., and <b>Patsalas P.*</b>, Broadband</li> </ul>

luminescence in defect-engineered electrochemically produced porous Si/ZnO nanostructures, *Scientific Reports* 8, 6988 (2018)

- Vangelidis I., Theodosi A., Beliatis M.J., Gandhi K.K., Laskarakis A., **Patsalas P.**, Logothetidis S., Silva S.R.P., Lidorikis E., Plasmonic Organic Photovoltaics: Unraveling Plasmonic Enhancement for Realistic Cell Geometries, *ACS Photonics* 5, 1440 (2018)
- **Patsalas P.**,\* Kalfagiannis N., Kassavetis S., Abadias G., Bellas D.V., Lekka C., Lidorikis E., Conductive nitrides: Growth principles, optical and electronic properties, and their perspectives in photonics and plasmonics, *Materials Science and Engineering R: Reports* 123, 1 (2018) (*Invited Review*)
- Lidor-Shalev O., Pliatsikas N., Carmiel Y., **Patsalas P.**, Mastai Y., Chiral Metal-Oxide Nanofilms by Cellulose Template Using Atomic Layer Deposition Process, *ACS Nano* 11, 4753 (2017)
- Metaxa C., Kassavetis S., Pierson J.F., Gall D., **Patsalas P.\***, Infrared Plasmonics with Conductive Ternary Nitrides, *ACS Applied Materials and Interfaces* 9, 10825 (2017)
- Faber H., Das S., Lin Y.-H., Pliatsikas N., Zhao K., Kehagias T., Dimitrakopoulos G., Amassian A., **Patsalas P.\***, Anthopoulos T.D.\*, Heterojunction oxide thin-film transistors with unprecedented electron mobility grown from solution, *AAAS Science Advances* 3, e1602640 (2017)
- Paradisanos I., Pliatsikas N., **Patsalas P.**, Fotakis C., Kymakis E., Kioseoglou G., Stratakis E., Spatial non-uniformity in exfoliated WS<sub>2</sub> single layers, *Nanoscale* 8, 16197 (2016)
- Kalfagiannis N., Siozios A., Bellas D.V., Toliopoulos D., Bowen L., Pliatsikas N., Cranton W.M., Kosmidis C., Koutsogeorgis D.C., Lidorikis E., **Patsalas P.\***, Selective modification of nanoparticle arrays by laser-induced self assembly (MONA-LISA): Putting control into bottom-up plasmonic nanostructuring, *Nanoscale* 8, 8236 (2016)