

## Curriculum Vitae

<b>Name</b>	<b>Chastas Nikolaos</b>
<b>Current Position</b>	Lab Teaching staff, School of Physics, AUTH
<b>Education</b>	<ul style="list-style-type: none"> <li>• PhD, School of Physics, AUTH (2005)</li> <li>• Msc, School of Physics, AUTH (2000)</li> <li>• Bachelor, School of Physics, University of Ioannina (1998)</li> </ul>
<b>Research interests</b>	<ul style="list-style-type: none"> <li>• Electrical characterization (electrical and ionic conductivity) of materials, thin films, nanomaterials, and electronic devices</li> <li>• Low frequency noise (LFN) of materials and devices</li> <li>• DC and AC electrical stress of semiconductor devices</li> <li>• Thermal conductivity and thermoelectric phenomena of materials, thin films, and nanomaterials</li> <li>• Thermomagnetic phenomena of innovative materials, thin films, and nanomaterials</li> <li>• Development of Theoretical and Computational Models</li> <li>• Fabrication of ultra-thin film superlattice devices based on solution processed semiconducting metal oxides using spin- and spray-coating techniques</li> </ul>
<b>Research overview</b>	<ul style="list-style-type: none"> <li>• 61 papers in peer-review international journals</li> <li>• 66 abstracts in international conference proceedings</li> <li>• h-index: 18</li> <li>• 825 citations</li> <li>• 10 participations in research projects</li> <li>• Referee in 21 peer-review scientific journals</li> <li>• Marie Curie Individual Fellowship, Imperial College London, UK (9/2015–9/2017)</li> </ul>
<b>Five most important publications</b>	<ol style="list-style-type: none"> <li>1. K. Wei, D. Nodari, X. Rodríguez-Martínez, L. Tsetseris, A.D. Nega, A. Dimitrakopoulou-Strauss, M. Rimmele, N. Hastas, Y. Li, F. Eisner, M. Matzapetakis, J. Martin, V.G. Gregoriou, N. Gasparini, C.L. Chochos, J. Panidi, Novel ambipolar polymers for detection beyond 1000 nm with organic phototransistors, <i>Materials Horizons</i>, 13(1), (2026)</li> <li>2. A. Teknetzi, D. Stathokostopoulos, S. Hadjipanteli, I. Vasileiadis, E. Tarani, N. Hastas, E. Pavlidou, T. Kehagias, T. Kyratsi, G. Vourlias, Pack Cementation Route to Ag<sub>2</sub>Se: Correlating Structure, Phase Formation, and Thermoelectric Performance, <i>Nanomaterials</i>, 15(21), 1676 (2025)</li> <li>3. Y.-H. Lin, W. Li, H. Faber, A. Seitkhan, N.A. Hastas, D. Khim, Q. Zhang, X. Zhang, N. Pliatsikas, L. Tsetseris, P.A. Patsalas, D.D.C. Bradley, W. Huang, T.D. Anthopoulos, Hybrid organic–metal oxide multilayer channel transistors with high operational stability, <i>Nature Electronics</i> vol. 2, pages 587 (2019)</li> <li>4. Y-H. Lin, H. Faber, J. Labram, E. Stratakis, L. Sygellou, E. Kymakis, N.A. Hastas, R. Li, K. Zhao, A. Amassian, N.D. Treat, M. McLachlan, T.D. Anthopoulos, “High electron mobility thin-film transistors based on solution-processed semiconducting metal oxide heterojunctions and quasi-superlattices”, <i>Advanced Science</i>, 2 (7), 1500058 (2015)</li> <li>5. N.G.Semaltianos, S.Logotheididis, N.Hastas, W.Petrie, S.Romani, R.J.Potter, G.Dearden, K.G.Watkins, P.French, M.Sharp, “Modification of the electrical properties of PEDOT:PSS by the incorporation of ZnO nanoparticles synthesized by laser ablation”, <i>Chemical Physics Letters</i> 484 (4-6), 283 (2010)</li> </ol>