

DR. MARIA PERVOLARAKI

LIST OF PUBLICATIONS

PEER REVIEWED ARTICLES

1. Z. Viskadourakis, **M. Pervolaraki**, G. I. Athanasopoulos, J. Giapintzakis, "*Thermoelectric properties of strained, lightly-doped $La_{1-x}Sr_xCoO_3$ thin films*", Journal of Applied Physics, 125, 055102, 2019.
2. M. Constantidou, **M. Pervolaraki**, L. Koutsokeras, C. Prouskas, P. Patsalas, P. C. Kelires, J. Giapintzakis, G. Constantinides, "*Enhancing the nanoscratch resistance of the pulsed laser deposited DLC films through molybdenum-doping*", Surface and Coatings Technology, 309, 320-330, 2017.
3. M. Constantinou, **M. Pervolaraki**, P. Nikolaou, C. Prouskas, P. Patsalas, P. C. Kelires, J. Giapintzakis, G. Constantinides "*Microstructure and nanomechanical properties of pulsed excimer laser deposited DLC:Ag films: enhanced nanotribological response*", Surface and Coatings Technology, 309, 320-330, 2017.
4. **M. Pervolaraki**, C.N. Mihailescu, C.R. Luculescu, P. Ionescu, M.D. Dracea, D. Pantelica, J. Giapintzakis, "*Picosecond ultrafast pulsed laser deposition of $SrTiO_3$* ", Applied Surface Science, 336, 278-282, 2015.
5. E. Symeou, **M. Pervolaraki**, C.N. Mihailescu, G.I. Athanasopoulos, Ch. Papageorgiou, Th. Kyratsi, J. Giapintzakis, "*Thermoelectric properties of $Bi_{0.5}Sb_{1.5}Te_3$ thin films grown by pulsed laser deposition*", Applied Surface Science, 336, 138-142, 2015.
6. **M. Pervolaraki**, Ph. Komninou, J. Kioseoglou, A. Othonos, J. Giapintzakis, "*Ultrafast pulsed laser deposition of carbon nanostructures: Structural and optical characterization*", Applied Surface Science, 278, 101-105, 2013.
7. **M. Pervolaraki**, Ph. Komninou, J. Kioseoglou, G.I. Athanasopoulos, J. Giapintzakis, "*Si nanostructures grown by picosecond high repetition rate pulsed laser deposition*", Applied Surface Science, 278, 67-70, 2013.
8. E. Spanakis, **M. Pervolaraki**, J. Giapintzakis, N. Katsarakis, E. Koudoumas, D. Vernardou, "*Effect of gold and silver nanoislands on the electrochemical properties of carbon nanofoam*", Electrochimica Acta 111, 305- 313, 2013.
9. G. Kenanakis, **M. Pervolaraki**, J. Giapintzakis, N. Katsarakis, "*The use of pulsed laser deposited seed layers for the aqueous solution growth of highly oriented ZnO nanowires on sapphire substrates at 95 °C: Study of their photocatalytic activity in terms of octadecanoic (stearic) acid degradation*", Applied Catalysis A: General, Volume 467, 559-567, 2013.
10. **M. Pervolaraki**, I. Pasuk, G.E. Stan, J. Giapintzakis, "*Pulsed laser deposition of highly textured $La_5Ca_9Cu_{24}O_{41}$ films on $SrLaAlO_4$ (1 0 0) and $Gd_3Ga_5O_{12}$ (1 0 0) substrates*", Applied Surface Science, 258, 9475-9479, 2012.
11. **M. Pervolaraki**, F. Sima, G. Socol, C.M. Teodorescu, N.G. Gheorghe, M. Socol, I.N. Mihailescu, E.E. Moushi, A.J. Tasiopoulos, G.I. Athanasopoulos, Z. Viskadourakis, J. Giapintzakis, "*Matrix assisted pulsed laser evaporation of Mn_{12} (Propionate) thin films*", Applied Surface Science, 258, 9471-9474, 2011.
12. G. I. Athanasopoulos, **M. Pervolaraki**, E. Androulakis, R. Saint-Martin, A. Revcolevschi and J. Giapintzakis, "*Pulsed Laser Deposition and thermal characterization of Ni doped $La_5Ca_9Cu_{24}O_{41}$ thin films*", Applied Surface Science, 257, 5200-5203, 2011.
13. **M. Pervolaraki**, S. Singh, G.I. Athanasopoulos, R. Saint-Martin, A. Revcolevschi and J.

Giapintzakis, "Pulsed Laser Deposition of Homo- and Hetero-epitaxial thin films of the exotic $\text{La}_5\text{Ca}_9\text{Cu}_{24}\text{O}_{41}$ compound on oxide and Si substrates", Journal of Optoelectronics and Advanced Materials, Vol. 12, No. 3, 641-645, 2010.

14. M. Pervolaraki, G. I. Athanasopoulos, J. Giapintzakis, C. Kizas, A. J. Tasiopoulos, F. Sima, G. Socol and I. N. Mihailescu, "Mn₁₂ benzoate thin films on Si substrates fabricated by Matrix Assisted Pulsed Laser Evaporation", Journal of Optoelectronics and Advanced Materials, Vol. 12, No. 3, 557-560, 2010.
15. G. I. Athanasopoulos, E. Svoukis, M. Pervolaraki, R. Saint-Martin, A. Revcolevschi, and J. Giapintzakis, "Thermal conductivity of Ni, Co, and Fe-doped $\text{La}_5\text{Ca}_9\text{Cu}_{24}\text{O}_{41}$ thin films measured by the 3ω method", Thin Solid Films, Vol. 518, Issue 16, 4684-4687, 2010.
16. M. Zervos, D. Tsokkou, M. Pervolaraki and A. Othonos, "Low temperature growth of In_2O_3 and InN nanocrystals on Si (111) via chemical vapor deposition based on the sublimation of NH_4Cl in In", Nanoscale Research Letters, 4, 491-497, 2009.
17. A. Othonos, M. Zervos and M. Pervolaraki, "Ultrafast Carrier Relaxation in InN Nonowires Grown by Reactive Vapor Transport", Nanoscale Research Letters, 4, 122-129, 2009.
18. M. Pervolaraki, G. I. Athanasopoulos, R. Saint-Martin, A. Revcolevschi and J. Giapintzakis, "KrF Pulsed Laser Deposition of $\text{La}_5\text{Ca}_9\text{Cu}_{24}\text{O}_{41}$ thin films on various substrates", Applied Surface Science, 255, 5236-5239, 2009.
19. P. E. Dyer, M. Pervolaraki, C. D. Walton, T. Lippert, M. Kuhnke, A. Wokaum, "Ionization in vacuum ultraviolet F2 laser ablated polymer plumes", Applied Physics A, 90, 403-409, 2008.
20. M. Kuhnke, L. Cramer, P. E. Dyer, J. T. Dickinson, T. Lippert, H. Niino, M. Pervolaraki, C. D. Walton, A. Wokaum, "F2 excimer laser (157 nm) ablation of polymers: relation of neutral and ionic fragment detection and absorption", Journal of Physics: Conference Series, Vol. 59, Issue 1, 625-631, 2007.
21. P. E. Dyer, M. Pervolaraki, T. Lippert, "Experimental studies and thermal modeling of 1064- and 532-nm Nd:YVO₄ micro-laser ablation of polyimide", Applied Physics A, 80, 529-536, 2005.
22. M. Pervolaraki, P. E. Dyer and P. Monk, "Ablation studies using a diode pumped Nd:YVO₄ micro-laser", Applied Physics A, 79, 849-854, 2004.

PEER REVIEWED CONFERENCE PROCEEDINGS

- M. Pervolaraki, J. Giapintzakis, G. Socol, N. Stefan, F. Sima, C. G. Ristoscu, I. N. Mihailescu, A. M. Vlaicu, R. Saint-Martin, A. Revcolevschi, "Epitaxial-like thin films of $\text{La}_5\text{Ca}_9\text{Cu}_{24}\text{O}_{41}$ grown on MgO and SrTiO₃ substrates by Pulsed Laser Deposition", E-MRS Fall Meeting Proceedings, Symposium I, FUNCTIONAL CCMC, p 182-188, 2008.
- G. I. Athanasopoulos, E. Svoukis, M. Pervolaraki, J. Giapintzakis, "Thermal conductivity measurement of $\text{La}_5\text{Ca}_9\text{Cu}_{24}\text{O}_{41}$ thin films using the 3ω method", E-MRS Fall Meeting Proceedings, Symposium I, FUNCTIONAL CCMC, p 260-267, 2008.