

Argyro Klini, PhD

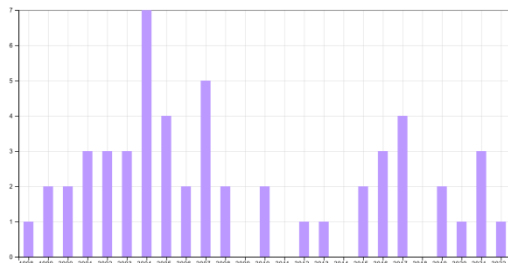
PERSONAL INFORMATION

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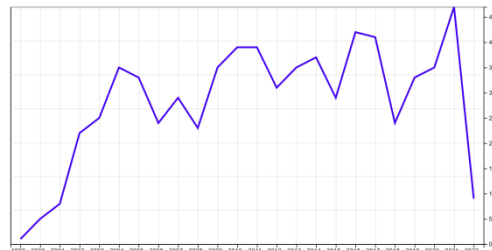
WEB of SCIENCE DATA (April, 2022)

Papers: 56, Citations: 681 (non-self: 633), h-index: 16

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Publication distribution per year.



Citation distribution per year.

1. Publications in Scientific Journals (peer reviewed)

1. "Room temperature optical detection of ultra-low ozone concentration using photoluminescent ZnO nanohybrids" E. Christaki, E. Vasilaki, E. Gagaoudakis, V. Binas, M. Vamvakaki, A. Klini, *Sensors Actuators B. Chem.* 359, 131614 (2022). <https://doi.org/10.1016/j.snb.2022.131614>
2. "Electrodeposited laser – nanostructured electrodes for increased hydrogen production," I.A. Poimenidis, N. Papakosta, A. Manousaki, A. Klini, M. Farsari, S.D. Moustazis, P.A. Loukakos, *Int. J. Hydrogen Energy* 47 9527 (2022). <https://doi.org/10.1016/j.ijhydene.2022.01.062>
3. "Enhanced hydrogen production through alkaline electrolysis using laser-nanostructured nickel electrodes," I.A. Poimenidis, M.D. Tsanakas, N. Papakosta, A. Klini, M. Farsari, S.D. Moustazis, P.A. Loukakos, *Int. J. Hydrogen Energy* 46, 37162 (2021). <https://doi.org/10.1016/j.ijhydene.2021.09.010>
4. "Titanate-PMMA composites in photoluminescence based oxygen sensing," O. Marantos, V. Binas, M. Moschogiannaki, E. Gagaoudakis, G. Kiriakidis, A. Klini, *Mat. Sci. Semicon. Proc.* 133, 105942 (2021). DOI: <https://doi.org/10.1016/j.mssp.2021.105942>
5. "Environment induced reversible modulation of optical and electronic properties of lead halide perovskites and possible applications to sensor development: a review", M.L. De Giorgi, S. Milanese, A. Klini, M. Anni, *Molecules* 26, 705 (2021). DOI: <https://doi.org/10.3390/molecules26030705>
6. "Assessing the type and quality of high voltage composite outdoor insulators by remote LIBS analysis: A feasibility study," O. Kokkinaki, A. Klini, M. Polychronaki, N.C. Mavrikakis, K.G. Siderakis, E. Koudoumas, D. Pylarinos, E.Thalassinakis, K. Kalpouzou, D. Anglos, *Spectrochim. Acta Part B* 165, 105768 (2020). DOI: <https://doi.org/10.1016/j.sab.2020.105768>

7. "Low Energy Pulsed Laser Excitation in UV Enhances the Gas Sensing Capacity of Photoluminescent ZnO Nanohybrids", A. Klini, M. Androulidaki, D. Anglos, *Sensors* 19, 5490 (2019). DOI: 10.3390/s19245490
8. "Physical insight in the fluence-dependent distributions of Au nanoparticles produced by sub-picosecond UV pulsed laser ablation of a solid target in vacuum environment", A. Taurino, M. Catalano, V. Resta, A. Klini, F. Gontad, *Appl. Surf. Sci.* 480, 330-340 (2019). DOI: <https://doi.org/10.1016/j.apsusc.2019.02.022>
9. "Droplet distribution during sub-picosecond laser deposition of gold nanoparticles", F. Gontad, M. Cesaria, **A. Klini**, A. Manousaki, A. Perrone, and A.P. Caricato, *Appl. Surf. Sci.* 419, 603 (2017). DOI: 10.1016/j.apsusc.2017.05.106
10. "Decoration of silica nanowires with gold nanoparticles through ultra-short pulsed laser deposition", F. Gontad, A.P. Caricato, M. Cesaria, V. Restaa, A. Taurinod, A. Colombellid, C. Leoa, **A. Klini**, A. Manousaki, A. Convertino, R. Rellad, M. Martino, A. Perrone, *Appl. Surf. Sci.* 418, 430-436 (2017). DOI: 10.1016/j.apsusc.2017.02.032
11. "3D patterning of ZnO nanostructures", A.N. Giakoumaki, G. Kenanakis, **A. Klini**, M. Androulidaki, Z. Viskadourakis, M. Farsari, and A. Selimis, *Mater. Today* 20, 392 (2017). DOI: 10.1016/j.mattod.2017.07.003
12. "3D micro-structured arrays of ZnO nanorods", A.N. Giakoumaki, G. Kenanakis, A. Klini, M. Androulidaki, Z. Viskadourakis, M. Farsari, and A. Selimis, *Sci. Rep.* 7, 2100 (2017). DOI: 10.1038/s41598-017-02231-z.
13. "Morphology and Structure of Nb Thin Films Grown by Pulsed Laser at Different Substrate Temperatures", F. Gontad, A. Lorusso, A. Manousaki, A. Klini, and A. Perrone, *J. Mater. Sci. Technol.* 32, 1192 (2016). DOI: 10.1016/j.jmst.2016.10.005
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15. "3D plasmonic transducer based on gold nanoparticles produced by laser ablation on silica nanowires", F. Gontad, A.P. Caricato, M.G. Manera, A. Colombelli, V. Resta, A. Taurino, M. Cesaria, C. Leo, A. Convertino, **A. Klini**, A. Perrone, R. Rella, M. Martino, *Appl. Phys. A* 122, 539 (2016). DOI: 10.1007/s00339-016-0063-2
16. "Growth of poly-crystalline Cu films on Y substrates by picosecond pulsed laser deposition for photocathode applications", F. Gontad, A. Lorusso, **A. Klini**, A. Manousaki, A. Perrone, C. Fotakis. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 799, 70 (2015). DOI: 10.1016/j.nima.2015.07.041
17. "ZnO-PDMS Nanohybrids: A novel optical sensing platform for ethanol vapor detection at room temperature", **A. Klini**, S. Pissadakis, R.N. Das, E.P. Giannelis, S.H. Anastasiadis, D. Anglos, *J. Phys. Chem. C* 119, 623 (2015). DOI: 10.1021/jp506632d
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19. "An ethanol vapor detection probe based on a ZnO nanorod coated optical fiber long period grating", M. Konstantaki, **A. Klini**, D. Anglos, S. Pissadakis, *Opt. Express* 20, 8472 (2012). DOI: 10.1364/OE.20.008472
20. "Femtosecond laser deposition of TiO₂ by laser induced forward transfer", M. Sanz, M. Walczak, M. Oujja, C. Domingo, **A. Klini**, E.L. Papadopoulou, M. Castillejo, *Thin Solid Films* 518, 5525 (2010). DOI: 10.1016/j.tsf.2010.04.057
21. "Tuning spectral properties of ultrafast laser ablation plasmas from brass using adaptive temporal pulse shaping", M. Guillermin, **A. Klini**, J.P. Colombier, F. Garrelie, D. Gray, C. Liebig, E. Audouard, C. Fotakis, R. Stoian, *Opt. Express* 18, 11159 (2010). DOI: 10.1364/OE.18.011159
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24. "Directed cell growth on Laser-Transferred 2D Biomaterial Matrices", A. Nógrádi, B. Hopp, T. Smausz, G. Kecskeméti, Z. Bor, L. Kolozsvári, A. Szabó, **A. Klini**, C. Fotakis, *Open Tissue Engineering & Regenerative Medicine Journal* 1, 1 (2008). DOI: 10.2174/1875043500801010001
25. "Deposition of thin films for sensors by pulsed laser ablation of iron and chromium silicide targets", A.P. Caricato, A. Luches, F. Romano, S. A. Mulenko, Y.V. Kudryavtsev, N.T. Gorbachuk, C. Fotakis, E.L. Papadopoulou, **R. Klini**, *Appl. Surf. Sci.* 254, 1288 (2007). DOI: 10.1016/j.apsusc.2007.09.025
26. "Laser patterning of Zn for ZnO nanostructure growth: Comparison between laser induced forward transfer in air and in vacuum", F. Claeysens, **A. Klini**, A. Mourka, C. Fotakis, *Thin Solid Films* 515, 8529 (2007). DOI: 10.1016/j.tsf.2007.03.135
27. "Double-peak droplet mass distribution observed during sub-ps laser ablation of Si targets", L. Cultrera, A. Dima, A. Perrone, D. Pisignano, R. Cingolani, **A. Klini**, *Appl. Phys. A* 88, 435 (2007). DOI: 10.1007/s00339-007-4010-0
28. "Femtosecond pulsed laser deposition of biological and biocompatible thin layers", B. Hopp, T. Smausz, G. Kecskeméti, **A. Klini**, *Zs. Bor, Appl. Surf. Sci.* 253, 7806 (2007). DOI: 10.1016/j.apsusc.2007.02.102
29. "ZnO nanorod micropatterning via laser-induced forward transfer", **A. Klini**, A. Mourka, V. Dinca, C. Fotakis, F. Claeysens, *Appl. Phys. A* 87, 17 (2007). DOI: 10.1007/s00339-006-3811-x
30. "Growth and characterization of beta-SiC films obtained by fs laser ablation", C. Ghica, C. Ristoscu, G. Socol, D. Brodoceanu, L.C. Nistor, I.N. Mihailescu, **A. Klini**, C. Fotakis, *Appl. Surf. Sci.* 252, 4672 (2006). DOI: 10.1016/j.apsusc.2005.07.087
31. "Femtosecond pulse shaping for phase and morphology control in PLD: Synthesis of cubic SiC", C. Ristoscu, G. Socol, C. Ghica, I.N. Mihailescu, D. Gray, **A. Klini**, A. Manousaki, D. Anglos, C. Fotakis, *Appl. Surf. Sci.* 252, 4857 (2006). DOI: 10.1016/j.apsusc.2005.07.099
32. "Growth of ZnO thin films by UV pulsed laser ablation. Study of plume dynamics", **A. Klini**, A. Manousaki, D. Anglos, C. Fotakis, *J. Appl. Phys.* 98, 123301 (2005). DOI: 10.1063/1.2149498
33. "Erbium-doped waveguide fabrication via reactive pulsed laser deposition of erbium-doped oxyfluoride-silicate glass", R.R. Thomson, H.T. Bookey, A.K. Kar, M.R. Taghizadeh, **A. Klini**, C. Fotakis, E. Romano, A.P. Caricato, M. Martino, S. Shen, A. Jha, *Elec. Lett.* 41, 1376 (2005). DOI: 10.1049/el:20053203
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37. "Effects of pulse laser duration and ambient nitrogen pressure in PLD of AlN", C. Ristoscu, E. Gyorgy, I.N. Mihailescu, **A. Klini**, V. Zorba, C. Fotakis, *Appl. Phys. A* 79, 927 (2004). DOI: 10.1007/s00339-004-2857-x
38. "Bonding configurations in amorphous carbon and nitrogenated carbon films synthesized by femtosecond laser deposition", S.S. Roy, P. Papakonstantinou, R. McCann, J. McLaughlin, **A. Klini**, N. Papadogiannis, *Appl. Phys. A* 79, 1009 (2004). DOI: 10.1007/s00339-004-2616-z
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44. "Surface particularities in pulsed laser ablation/ deposition of the ferromagnetic alloy NiMnSb", C.E.A. Grigorescu, S.A. Manea, O. Monnereau, R. Notonier, L. Tortet, R. Keschawarz, J. Giapintzakis, **A. Klini**, V. Zorba, J. Androulakis, C. Fotakis, *Appl. Surf. Sci.* 78, 212 (2003). DOI: 10.1016/S0169-4332(03)00404-5
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49. "Role of laser pulse duration and gas pressure in deposition of AlN thin films", E. Gyorgy, C. Ristoscu, I. Mihailescu, **A. Klini**, N. Vainos, C. Fotakis, C. Ghica, G. Schmerber, J. Faerber, *J. Appl. Phys.* 90, 456 (2001). DOI: 10.1063/1.1376417
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51. "Laser printing of active optical microstructures", G. Koundourakis, C. Rockstuhl, D. Papazoglou, **A. Klini**, I. Zergioti, N.A. Vainos, C. Fotakis, *Appl. Phys. Lett.* 78, 853 (2001). DOI: 10.1063/1.1348321
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2. Publications in conference proceedings (peer reviewed)

1. "An optical fiber long-period grating sensor for organic vapors utilizing a ZnO nanorod out-cladding", S. Pissadakis, D. Anglos, **A. Klini**, M. Konstantaki, IEEE, Lasers and Electro-Optics Europe (CLEO EUROPE/EQEC), CLEO EUROPE-EQEC 2011 Conference on and 12th European Quantum Electronics Conference, doi:10.1109/CLEOE.2011.5943255
2. "Long period optical fiber grating outcladding overlaid sensors: A versatile photonic platform for health and bio applications", **A. Klini**, M. Konstantaki, S. Pissadakis, D. Anglos, BioPhotonics, IEEE, 2011 International Workshop on, 1-3, doi:10.1109/IWBP.2011.5954850
3. "Role of laser pulse duration and ambient nitrogen pressure in deposition of AlN thin films", C. Ristoscu, C. G. Dorcioman, G. Socol, I. N. Mihailescu, **A. Klini**, C. Fotakis, Proc. SPIE 5581, ROMOPTO 2003: Seventh Conference on Optics, 356 (October 21 2004) doi:10.1117/12.582815
4. "Influence of pulse duration and annealing on crystallinity and luminescence of laser-deposited Er-doped YAG (YAP) layers", M. Jelinek, J. Oswald, V. Studnicka, J. Lancok, M. Pavelka, **A. Klini**, C. Fotakis, Proc. SPIE 4915, Lasers in Material Processing and Manufacturing, 310 (September 2002), doi:10.1117/12.482905
5. "Stoichiometry issues in pulsed laser deposition of the ferromagnetic alloy NiMnSb", C. E. A. Grigorescu, O. Monnereau, S.A. Manea, R. Notonier, **A. Klini**, V. Zorba, A. Manousaki, J. Giapintzakis, C. Fotakis, Proc. SPIE 4762, ALT'01 International Conference on Advanced Laser Technologies, 260 (August 9, 2002), doi:10.1117/12.478645