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Leila COSTELLE

Ph.D. in Physics
Assistant Professor,

[PHYS151, PHYS251, PHYS253]

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EDUCATION

2011	Ph.D. in Physics, University of Helsinki, Finland
2007	Master in Nuclear Physics, University Claude Bernard Lyon 1, France
2005	Bachelor in Physics, University Sciences and Technologies Montpellier II, France

RESEARCH INTERESTS

- Renewable energy, photovoltaic and wind energy
- Synthesis, surface modification and characterization of advanced materials for application in the renewable energy field.

EMPLOYMENT EXPERIENCE

ACADEMIC:

2016 - Present	Professor, Courses Taught: PHYS151, PHYS251, PHYS253, MedTech, Tunis, Tunsia
2016 - Present	Senior Research Associate, University of Bristol, Bristol, United Kingdom
2014 - 2016	Postdoctoral Researcher, University of Bristol, Bristol, United Kingdom
2012 - 2013	Postdoctoral Researcher, Tampere University of Technology, Tampere, Finland

COURSES TAUGHT

- PHYS151, PHYS251, PHYS253, MedTech
- Nuclear Reactor Physics, University of Bristol
- Nuclear Fundamentals: Thermodunamics, EDF ENERGY, Campus, Somerset, UK

INTELLECTUAL CONTRIBUTIONS

Papers in refereed journals

Published

T. Scott, **L. Costelle**, J. Darnbrough, K. Hallam, C. Stitt, C. Jones, A. Banos, H. Paraskevoulakos, R. Springell, C. Brenner and R. Allot, A Novel Approach for the Study of Corrosion and Ageing of Spent Nuclear Fuel – Looking Inside the box; From a Distance, *WM2016 Conference*, March 6-10, 2016, Phoenix, Arizona, USA.

R. Springell, S. Rennie, **L. Costelle**, J. E. Darnbrough, C. Stitt, E. Cocklin, C. Lucas, R. Burrows, H. Sims, D. Wermeille, J. Rawle, C. Nicklin, W. Nuttall, T. B. Scott and G. H. Lander, Water corrosion of spent nuclear fuel: radiolysis driven dissolution at the UO2/water interface, *Faraday Discussions*, **180** (2015) 301-311

L. Vuori, J. Leppiniemi, M. Hannula,M. Hirsimäki, E. Nõmmiste, **L. Costelle**, V. Hytönen, M. Valden, K. Lahtonen, Biofunctional hybrid materials: bimolecular organosilane monolayers on FeCr alloys, *Nanotechnology* **25** (43) (2014) 435603

L. Costelle, M. T. Räisänen, C. Silien, J. T. Joyce, L-S. Johansson, J. M. Campbell and J. Räisänen, Structural Evolution of Gas-Phase Coinage Metal Clusters in Thiolate Self-Assembled Monolayers on Au, *Physical Chemistry C* **116** (2012) 22602.

L. Costelle, L. Lind, P. Jalkanen, M. Räisänen, R. Nowak and J. Räsänen, Conventional Nanoindentation in Self-Assembled Monolayers Deposited on Gold and Silver Substrates, *Journal of Nanomaterials* **2012** (2012) 585123.

L. Costelle, A. Pirojenko, V. Tuboltsev, A. Savin, K. Mizohata, and J. Räisänen, Spin-glass magnetism of Surface Rich Au Cluster Film, *Applied Physics Letters* **99** (2011) 022503.

L. Costelle, P. Jalkanen, M. T. Räisänen, L. Lind, R. Nowak and J. Räisänen, Classical nanoindentation towards nanometer thick self-assembled monolayers on metallic substrate, *Journal of Applied Physics* **110** (2011) 114301.

L. Costelle, M. T. Räisänen, T. Järvi, V. Touboltsev, and J. Räisänen, Binding of deposited gold clusters to thiol SAM modified Au(111) surfaces, *Applied Physics Letters* **98** (2011) 043107.

SCIENTIFIC PRIZES AND AWARDS / GRANTS

- Excellent presentation award at the 45eme Journees des Actinides, Pruhonice - Prague, Czech Republic, 15 -19 April 2015.
- EPSRC DISTINCTIVE University Consortium, 2015 –2016
  Active Research Support grant: 17k GBP
- EPSRC DISTINCTIVE University Consortium, 2014 –2015
  Active Research Support grant: 10k GBP
- NGS-NANO fellowship, 2010 – 2011
  Two years graduate school position in nanoscience, University of Helsinki, Finland