

Jahres- und Geschäftsbericht 2011

Fachbereich Maschinenwesen

Vorträge

Prof. Es-Souni:

- M. Es-Souni: A Chemical Solution Approach to the Processing of Porous Organic and Inorganic Films. Invited lecture. International Conference on Materials for Advanced Technologies ICMAT 2011 (26.06. – 01.07.2011), Suntec, Singapore.
- R. Minch, and M. Es-Souni: A versatile approach to processing of high active area pillar coral- and sponge-like Pt-nanostructures. Application to electrocatalysis. Invited lecture. 9th International Meeting of Pacific Rim Ceramic Societies PACRIM9 (10. – 14. 07. 2011), Cairns, Queensland, Australia.
- M. Dietze, N. Neumann, and M. Es-Souni: PMN-PT based single crystals for pyroelectric applications. Invited lecture. 4th International Meeting on Smart Materials and Structures (14. – 16.09.2011), Agadir, Marokko.
- S. Habouti, M. Mátéfi-Tempfli, C.-H. Solterbeck, Ma. Es-Souni, S. Mátéfi-Tempfli, and M. Es-Souni: Self-standing corrugated Ag and Au-nanorods for plasmonic applications. Poster presentation. 4th International Meeting on Smart Materials and Structures (14. – 16.09.2011), Agadir, Marokko.

Prof. Schaffarczyk:

- A. Jeromin and A.P. Schaffarczyk: Progress in subtask 4.2: Sensitivity of Results Reynolds Number. 4th IEA Wind Annex 29 (MexNext) Meeting. Amsterdam, The Netherlands, 18. January 2011.

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Veröffentlichungen

Prof. Es-Souni:

- M. Es-Souni, Ma. Es-Souni, and M. Dietze: A universal, template-free approach to Porous oxide and Polymer film processing. RSC Adv., 2011, 1, 579-583.
- H. Katzke, M. Dietze, A. Lahmar, M. Es-Souni, N. Neumann, and S.-G. Lee: Dielectric, ultraviolet/visible, and Raman spectroscopic investigations of the phase transition sequence in $0.71\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.29\text{PbTiO}_3$ crystals. Phys. Rev. B, 2011, 83, 174115.
- A. Lahmar, K. Zhao, S. Habouti, M. Dietze, C.-H. Solterbeck, and M. Es-Souni: Off-stoichiometry effects on BiFeO_3 thin films. Solid State Ion., 2011, 202 (1), 1-5.
- R. Minch, and M. Es-Souni: On substrate, self-standing hollow-wall Pt and PtRu-nanotubes and their electrocatalytic behaviour. Chem. Commun., 2011, 47, 6284-6286.
- S. Habouti, M. Mátéfi-Tempfli, C.-H. Solterbeck, Ma. Es-Souni, S. Mátéfi-Tempfli, and M. Es-Souni: Self-standing corrugated Ag and Au-nanorods for plasmonic applications. J. Mater. Chem., 2011, 21 (17), 6269-6273.
- R. Minch, and M. Es-Souni: A versatile approach to processing of high active area pillar coral- and sponge-like Pt-nanostructures. Application to electrocatalysis. J. Mater. Chem., 2011, 21 (12), 4182-4188.
- S. Habouti, M. Mátéfi-Tempfli, C.-H. Solterbeck, Ma. Es-Souni, S. Mátéfi-Tempfli, and M. Es-Souni: On-substrate, self-standing Au-nanorod arrays showing morphology controlled properties. nanotoday, 2011, 6 (1), 12-19.

Prof. Graf:

- Böhm, C. and Graf, K.: RVPP: Sailing Yacht Performance Prediction fully integrated into a RANSE based flow code, 20th Chesapeake Sailing Yacht Symp., Annapolis, 2011.
- Mausolf, J, Deparday, J., Graf, K., Rensch, H. and Böhm, C.: Photogrammetry Based Flying Shape Investigation of Downwind Sails in the Wind Tunnel and at Full Scale on a Sailing Yacht, 20th Chesapeake Sailing Yacht Symp., Annapolis, 2011.
- H. F. Rensch and K. U. Graf, Fluid Structure Interaction Simulation of Spinnakers – Getting Closer to Reality, Intl. Journal of Small Craft Technology, RINA Transactions, Vol 153 Part B 2011, ISSN 1740 – 0694.
- C. Boehm and K. U. Graf, Coupling of RANSE-CFD with VPP Methods: From the Numerical Tank to Virtual Boat Testing, Intl. Journal of Small Craft Technology, RINA Transactions, Vol 153 Part B 2011, ISSN 1740 – 0694.

Prof. Schaffarczyk:

- IEA Wind Annex 29 (MexNext II) Kick-Off Meeting: Sensitivity of Results on Reynolds Number and Rotational Speed. A. Jeromin and A.P. Schaffarczyk. Amsterdam, The Netherlands, 7. December 2011.
- 5th IEA Wind Annex 29 (MexNext) Meeting: Progress in subtask 4.2: Sensitivity of Results Reynolds Number. A. Jeromin and A.P. Schaffarczyk. Je Ju Island, Korea, 14. June 2011.
- FINO Conference 2011: Investigations of Turbulence Properties. A.P. Schaffarczyk and A. Jeromin. Hamburg, 10. May 2011.
- 15. windcomm Werkstatt: Kleinwindanlage: Anlagentypen und Technische Entwicklungen. A.P. Schaffarczyk. Büsum, 09. Mai 2011.