

UmbenennungHomeSucheEnglish

# Solarenergieforschung

Solare Energetik



## Publikationen 2002

**Abd El Halim, A.M.; Fiechter, S.; Tributsch, H.:****Control of interfacial barriers in n-type FeS<sub>2</sub> (pyrite) by electrodepositing metals (Co, Cu) forming isostructural disulfides**

Electrochimica Acta 47 (2002) 2615-2623

**Aggour, M.; Störkel, U.; Murrell, C.; Campbell, S.A.; Jungblut, H.; Hoffmann, P.; Mikalo, R.; Schmeißer D.; Lewerenz, H.J.:****Electrochemical Interface Modification of CuInS<sub>2</sub> Films**

Thin Solid Films 403-404 (2002) 57-61

**Altermatt, P.P.; Kiesewetter, T.; Ellmer, K.; Tributsch, H.: Specifying targets of future research in photovoltaic devices containing pyrite (FeS<sub>2</sub>) by numerical modelling**

Solar Energy Materials and Solar Cells 71 (2002) 181-195

**Aroutiounian, V. M.; Tributsch, H.:****On Principles of Composite Polymer Solar Cell Function**

Proceedings of the "World Renewable Energy" Congress VII, 2002, ed. A. A. M. Sayigh, Elsevier Science Ltd., (2002)

**Bron, M.; Fiechter, S.; Hilgendorff, M.; Bogdanoff, P.:****Catalysis for oxygen reduction from heat treated carbon-supported iron phenanthrolin complexes**

Journal of Applied Electrochemistry 32 (2002) 211-216

**Bron, M.; Radnik, J.; Fieber-Erdmann, M.; Bogdanoff, P.; Fiechter, S.:****EXAFS, XPS and electrochemical studies on oxygen reduction catalysts obtained by heat treatment of iron phenanthroline complexes supported on high surface area carbon black**

Journal of Electroanalytical Chemistry 535 (2002) 113-119

**Citarella, G.; von Aichberger, S.; Kunst, M.:****Microwave photoconductivity techniques for the characterization of semiconductors**

Materials Science and Engineering B91-92 (2002) 124-128

**Citarella, G.; Abdallah, O.; Kunst, M.:****The characterization of the silicon / silicon nitride interface**

Materials Science and Engineering B91-92 (2002) 229-233

**Ellmer, K.; Hinze, J.; Klaer, J.:****Copper indium disulfide solar cell absorbers prepared in a one-step process by reactive magnetron sputtering from copper and indium targets**

Thin Solid Films 413 (2002) 92-97

- Fischer, Ch.-H.; Muffler, H.-J.; Bär, M.; Fiechter, S.; Leupolt, B.; Lux-Steiner, M.Ch.: **Ion layer gas reaction (ILGAR) – conversion, thermodynamics considerations and related FTIR analyses**  
J. Crystal Growth 241 (2002) 151-158
- Hilgendorff, M.; Diesner, K.; Schulenburg, H.; Bogdanoff, P.; Bron, M.; Fiechter, S.: **Preparation Strategies Towards Selective Ru- Based Oxygen Reduction Catalysts for Direct Methanol Fuel Cells**  
Journal of New Materials for Electrochemical Systems 5 (2002) 71-81
- Jungblut, H.; Jakubowicz, J.; Aggour, M.; Murrell, C.; Hoffmann, P.; Lewerenz, H.J.: **of Si(111): a Combined Photoelectron Spectroscopy and Successive Nanoroughening AFM Study**  
Ninth Annual International Conference on Composites Engineering, July 1-6. 2002, San Diego, California, Proceedings, (2002) 347-348
- Jungblut, H.; Jakubowicz, J.; Schweizer, S.; Lewerenz, H.J.: **Mechanism of Initial Structure Formation on Highly Doped n – Si(111)**  
J. Electroanal. Chem. 527 (2002) 41-46
- Kunst, M.; von Aichberger, S.; Citarella, G.; Wünsch, F.: **Amorphous silicon / crystalline silicon heterojunctions for solar cells**  
Journal of Non-Crystalline Solids 299-302 (2002) 1198-1202
- Kunst, M.; von Aichberger, S.; Citarella, G.; Wünsch, F.: **Optoelectronic characterization of microcrystalline silicon film**  
Journal of Non-Crystalline Solids 299-302 (2002) 756-760
- Kunst, M.; Abdallah, O.; Wünsch, F.: **Passivation of silicon by silicon nitride films**  
Solar Energy Materials and Solar Cells 72 (2002) 335-341
- Küppers, U.; Tributsch, H.: **Verpacktes Leben - Verpackte Technik, Bionik der Verpackung**  
Wiley-VCH Verlag GmbH, Weinheim (2002)
- Kuppusami, O.; Diesner, K.; Sieber, I.; Ellmer, K.: **Influence of Oxygen Addition and Substrate Temperature on Textured Growth of Al-Doped ZnO Thin Films Prepared by RF Magnetron Sputtering**  
MRS-Symposium Proceedings Vol. 721 (2002) 170-176
- Kuppusami, P.; Fiechter, S.; Ellmer, K.: **Pole Figure Analysis of Epitaxial Films of ZnO:2wt% Al Grown on Sapphire Substrates by RF Magnetron Sputtering**  
MRS-Symposium Proceedings Vol. 721 (2002) 93-98
- Lewerenz, H.J.: **Structural and Chemical Surface Characterization: an Introduction**  
European School on Biocorrosion, Portsmouth, U.K. available under [http://www.corrinstitute.se/english/Web\\_DT/presentations/Leweren z.PDF](http://www.corrinstitute.se/english/Web_DT/presentations/Leweren z.PDF)(2002) (invited)
- Lewerenz, H.J.; Aggour, M.; Murrell, C.; Kanis, M.; Hoffmann, P.; Jungblut, H.; Schmeißer, D.:

**Interface Engineering of Photoelectrochemically Prepared Si Surfaces**  
J. Non – Cryst. Solids 303 (2002) 1-5

Lewerenz, H.J.; Jungblut, H.; Aggour, M.; Goncalves, E.; Rüther, E.; Kanis, M.; Murrell, C.; Jakubowicz, J.; Cox, P.A.:  
**Synchrotron Radiation Photoelectron Spectroscopy and AFM Investigation on the Electrochemical Nanoroughening of Float Zone n-Si(111)**  
BESSY Annual Report 2001, (2002) 207-209

Lewerenz, H.J.; Schulte, K.:  
**Combined Photoelectrochemical Conditioning and Surface Analysis of InP Photocathodes: II Photoelectron Spectroscopy**  
Special Issue on Surface Modification of Semiconductors: Electrochim. Acta 47 (2002) 2639 (invited)

Licht, S.; Gosh, S.; Tributsch, H.; Fiechter, S.:  
**High efficiency solar energy water splitting to generate hydrogen fuel: Probing RuS<sub>2</sub> enhancement of multiple band electrolysis**  
Solar Energy Materials and Solar Cells 70 (2002) 471-480

Macht, B.; Turrión, M.; Barkschat, A.; Salvador, P.; Ellmer, K.; Tributsch, H.:  
**Patterns of Efficiency and degradation in dye sensitization solar cells measured with imaging techniques**  
Solar Energy Materials and Solar Cells 730 (2002) 163-173

Mientus, R.; Sieber, I.; Ellmer, K.:  
**Structure and Morphology of Reactively Sputtered In<sub>0.9</sub>Sn<sub>0.1</sub>O<sub>x</sub> Layers**  
MRS-Symposium Proceedings Vol. 721 (2002) 150-157

Schulte, K.; Lewerenz, H.J.:  
**Combined Photoelectrochemical Conditioning and Surface Analysis of InP Photocathodes: I The Modification Procedure**  
Special Issue on Surface Modification of Semiconductors: Electrochim. Acta 47 (2002) 2633 (invited)

Tributsch, H.:  
**Coupling Biogeochemical Processes to Regenerative energy for and Industrial Carbon Cycle**  
Proceedings of the International Biohydrometallurgy Symposium (IBS 2001), Ouro Preto, Minas Gerais, Brasil, September 16-19, 2001, Eds V. S. T. Ciminelli and O. Garcia Jr., Amsterdam, New York: Eslevier (2001) (available only 2002!)

Tributsch, H.:  
**Energiespeicherung in einer nachhaltigen Architektur in Gestalten mit Solarzellen**  
Rexroth, S. (Hrsg.), C.F. Müller Verlag, Heidelberg (2002) 177-181

Turrión, M.; Macht, B.; Tributsch, H.; Salvador, P.:  
**Potential Distribution in Nanostructured TiO<sub>2</sub> Sensitization Cells: an Interference Reflectance Study**  
Journal of Physical Chemistry B, 105 (2001) 9732-9738

von Aichberger, S.; Wünsch, F.; Kunst, M.:

**Contactless characterization of a-Si:H films on crystalline silicon substrates**  
Thin Solid Films 403-404 (2002) 449-452

**von Aichberger, S.; Abdallah, O.; Wünsch, F.; Kunst, M.:**

**Influence of a space charge region on charge carrier kinetics in silicon wafers**  
Journal of Applied Physics 91 (2002) 9147-9150

**Weber, M.; Scheer, R.; Lewerenz, H. J.; Jungblut, H.; Störkel, U**

**Microroughness and Composition of Cyanide- Treated CuInS<sub>2</sub>**

J. Electrochem. Soc. 149 (2002) 77-88

**Weiβ, V.; Mientus, R.; Ellmer, K.:**

**Texture of Polycrystalline MoS<sub>x</sub> Thin Films Magnetron Sputtered from a Metallic Target in Ar-H<sub>2</sub>S Atmospheres**

MRS-Symposium Proceedings Vol. 721 (2002) 131-137

**Wünsch, F.; Citarella, G.; Kunst, M.:**

**Optoelectronic properties of microcrystalline silicon films**

Thin Solid Films 403-404 (2002) 526-529

Letzte Änderung: 25.08.2004 , Verantwortlich: [Webmaster SE5](#)

