

H. Föll: List of Publications - Continuation

Third Installment: Running Number 121 - 180

Below is the third installment of my publication list: No 121 - 180. And no, it's still over, sorry. Continue per link at the top or bottom.

Some of these papers can be accessed via the links given

Support

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121. STEVENS-KALCEFF, M.A., TIGINYANU, I., M., LANGA, S., FÖLL, H., HARTNAGEL, H.L.: Correlation between morphology and cathodoluminescence in porous GaP. J. App. Phys. 89 (5), (2001) 2560-2565 (55 citations)
122. STEVENS-KALCEFF, M.A., LANGA, S., TIGINYANU, I. M., CARSTENSEN, J., CHRISTOPHERSEN, M., FÖLL, H.: Comparative SEM and cathodoluminescence micoranalysis of porous GaP structures, MRS Conference proceedings, 638, (2001), F5.31 (6 citations)
123. CHRISTOPHERSEN, M., CARSTENSEN, J., RÖNNEBECK, S., JÄGER, C., JÄGER, W., FÖLL, H.: Crystal orientation dependence and anisotropic properties of macropore formation of p- and n-type silicon, Journal of The Electrochemical Society, 148(6) , E267-E275 (2001) (118 citations)
124. LANGA, S., CARSTENSEN, J., CHRISTOPHERSEN, M., FÖLL, H., TIGINYANU, I. M.: Observation of crossing pores in anodically etched n-GaAs. App. Phys. Lett. 78 (8), (2001) 1074-1076 (127 citations)
125. LEHMANN, V., RÖNNEBECK, S.: MEMS Techniques Applied to the Fabrication of Anti-Scatter Grids for X-Ray Imaging. Sensors and Actuators A, 95, 202 (2001) (41 citations)
126. I.V. Grekhov, T.S. Agrunova, L.S. Kostina, N.M. Shmidt, H. Föll, and K.B. Kostin: "Direct bonding of silicon wafers with simultaneous dopant diffusion", in MRS Proceedings Volume 681E: Wafer Bonding and Thinning Techniques for Materials Integration, eds. T.E. Haynes, U.M. Gösele, M. Nastasi, and T. Yonehara, I5.7 (2001) (1 citations)
127. LEHMANN, V., RÖNNEBECK, S.: MEMS Techniques Applied to the Fabrication of Anti-Scatter Grids for X-Ray Imaging. Technical Digest of the 14th IEEE International Conference on Micro Electro Mechanical Systems, Interlaken 2001, 84 (41 citations)
128. M. Hejjo Al-Rifai, J. Carstensen, and H. Föll.: A new passivation method for edge shunts of silicon solar cells, Proceedings of the 17th european conference on photovoltaics, Munich, (2001), 1424 (1 citations)
129. CHRISTOPHERSEN, M., MERZ, P., QUENZER, J., CARSTENSEN, J., FÖLL, H.: Deep electrochemical trench etching with organic hydrofluoric electrolytes. Sensors and Actuators A 88 (2001) 241 (20 citations)
130. H. Föll, "Ist der Stein der Weisen aus Silizium?", in ...und Er würfelt doch!, H. Müller-Krumbhaar, H.-F. Wagner (Eds.), Wiley-VCH, Weinheim, 2001 S.
131. Langa, J. Carstensen, I. M. Tiginyanu, M. Christophersen, H. Föll, Formation of tetrahedron-like pores during anodic etching of (100)-oriented n-GaAs, Electrochem. Solid-State Lett., 5, C14-C17, (2002) (51 citations)
132. I.M. Tiginyanu, S. Langa, M. Christophersen, J. Carstensen, V. Sergentu, E. Foca, O. Rios, and H. Föll, Properties of 2D and 3D Dielectric Structures Fabricated by Electrochemical Dissolution of III-V Compounds, MRS Proceedings 692, (2002), K2.7 (4 citations)
133. H. Föll, S. Langa, J. Carstensen, M. Christophersen, I. M. Tiginyanu, K. Dichtel, Pore Etching in Compound Semiconductors for the Production of Photonic Crystals, invited paper: Mat. Res. Soc. Symp. Proc. 722 , Editors: R.B. Wehrspohn, R. März, S. Noda, and C. Soukoulis, L6.4, (2002) M. (4 citations)
134. Hejjo Al-Rifai, J. Carstensen, and H. Föll.: A simple passivation technique for the edge area of silicon solar cells improves the efficiency. Solar Energy Materials & Solar Cells 72 (2002), 327 - 333 H. (19 citations)
135. Föll, M. Christophersen, J. Carstensen, G. Hasse: Formation and application of porous silicon (invited review) Mat. Sci. Eng. R 39 (4) (2002) 93-141. (1063 citations)
136. J. Carstensen, G. Popkirov, J. Bahr, and H. Föll, CELLO: An Advanced LBIC Measurement Technique for Solar Cell Local Characterization, in Photovoltaic and Photoactive Materials - Properties, Technology and Applications, eds. J.M. Marshall and D. Dimova-Malinovska, Kluwer Academic Publishers (Netherland), 321 (2002). (short version of 146)

137. H. Föll, J. Carstensen, S. Langa, M. Christophersen, and I.M. Tiginyanu, "Photonic Crystals: the Future of Optical Communications", in Proceedings of the 3rd International Conference on Microelectronics and Computer Science, 1, Technical University of Moldova (2002).
138. S. Lölkes, M. Christophersen, S. Langa, J. Carstensen, and H. Föll, Selforganized formation of crystallographically oriented octahedral cavities during electrochemical pore etching, *Mat. Sci. Eng. B* 101, 159 (2003). (24 citations)
139. J. C. Claussen, J. Carstensen, M. Christophersen, S. Langa, H. Föll, Self-organized pore formation and open-loop-control in semiconductor etching, *Chaos*, 13(1), 217, (2003). (28 citations)
140. H. Föll, J. Carstensen, S. Langa, M. Christophersen, I.M.Tiginyanu, Porous III-V compound semiconductors: formation, properties and comparison to silicon, (invited paper at PSST 2002), *phys. stat. sol. (a)* 197(1), 61 (2003) (90 citations)
141. S. Langa, M. Christophersen, J. Carstensen, I. M. Tiginyanu, H. Föll, Single crystalline 2D porous arrays obtained by self-organization in n-InP, *phys. stat. sol. (a)* 197(1), 77 (2003) (69 citations)
142. S. Langa, J. Carstensen, M. Christophersen, I. M. Tiginyanu, H.Föll, Voltage oscillations - an emergent property at high density pore growth, *phys. stat. sol. (a)* 197(1), 186 (2003) M. Christophersen, (15 citations)
143. S. Langa, J. Carstensen, I. M. Tiginyanu, H.Föll, A comparison of pores in silicon and pores in III-V compound materials, *phys. stat. sol. (a)* 197(1), 197 (2003) (53 citations)
144. M. Christophersen, J. Carstensen, K. Voigt, and H. Föll, Organic and Aqueous Electrolytes Used for Etching Macro- and Mesoporous Silicon, *phys. stat. sol. (a)* 197(1), 34 (2003) (78 citations)
145. I.M. Tiginyanu, I.V. Kravetsky, S. Langa, G. Marowsky, J. Monecke, and H. Föll, Porous III-V Compounds as Nonlinear Optical Materials, (invited paper at PSST 2002), *phys. stat. sol. (a)* 197(1), 549 (2003) (60 citations)
146. J. Carstensen, G. Popkirov, J. Bahr, and H. Föll, CELLO: An Advanced LBIC Measurement Technique for Solar Cell Local Characterization, *Solar Energy Materials & Solar Cells* 76599 - 611, (2003)
147. S. Langa, I.M. Tiginyanu, M. Christophersen, J. Carstensen, and H.Föll, Self-organized growth of single crystals of nanopores, *Appl- Phys. Lett.*, 82(2), 278 - 280, (2003) (131 citations)
148. M. H. Al Rifai, O. Breitenstein, J. P. Rakotoniaina, and J. Carstensen, Edge shunt passivation in silicon solar cells by chemical etching investigated by lock-in thermography and CELLO, in Proceedings of the 3. World Conference on Photovoltaic Energy Conversion, Osaka, Japan, 2003, (2003)
149. LANGA, S., CHRISTOPHERSEN, M., CARSTENSEN, J., TIGINYANU, I.M., FÖLL, H., Electrochemical pore etching in Ge, *phys. stat. sol. (a)* 195 (3), (2003), R4-R6 (34 citations)
150. FÖLL, H., LANGA, S., CARSTENSEN, J., CHRISTOPHERSEN, M., TIGINYANU, I.M. Review: Pores in III-V semiconductors. (invited review) *Advanced Materials*, 15(3) (2003) 183 - 198 (315 citations)
151. FÖLL, H. Buchbesprechung zu "Morde Macht Moneten (von Dierk Raabe) *Physik Journal*
152. I.M. Tiginyanu, V.V. Ursaki, V.V. Zalamai, S. Langa, S. Hubbard, D. Pavlidis, and H. Föll, Luminescence of GaN nanocolumns obtained by photon-assisted anodic etching, *Appl. Phys. Lett.*, 83 (8), (2003) , 1551 (79 citations)
153. H. Föll, S. Langa, J. Carstensen, S. Lölkes, M. Christophersen, I.M. Tiginyanu, Engineering Porous III-Vs, *III-Vs Review*, 16 (6) (2003), 42 (8 citations)
154. M. Christophersen, S. Langa, J. Carstensen, P.M. Fauchet, and H. Föll, "Self-induced Voltage Oscillations and Diameter Modulations During Pore Formation in Si and InP" in MRS Proceedings Spring Meeting: invited paper (2003)
155. J.C. Claussen, J. Carstensen, M. Christophersen, S. Langa, and H. Föll, "Open-Loop-Control of pore formation in semiconductor etching", in Proceedings of Physics and Control, St. Petersburg, Russia, ed. A.L. Fradkov, 895 (2003) (3 citations)
156. J.C. Claussen, J. Carstensen, M. Christophersen, S. Langa, and H. Föll, "Self-organized formation of fractal and regular pores in semiconductors", in Lecture notes in computational science and engineering, eds. H. Emmerich, B. Nestler, and M. Schreckenberger, 82, Springer, Berlin (2003)
157. Photonic Crystals, eds. Kurt Busch, Stefan Lölkes, Ralf B. Wehrspohn, Helmut Föll, Wiley-VCH, Weinheim, Germany, 2004, (Table of Contents)
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159. I. M. Tiginyanu, S. Langa, L. Sirbu , E. Monaico, M. A. Stevens-Kalceff, and H. Föll, Cathodoluminescence microanalysis of porous GaP and InP structures, *Eur. Phys. J. Appl. Phys.* 27, (2004) 81 (16 citations)
160. V. Kochergin, M. Christophersen, and H. Föll, Effective medium approach for calculations of optical anisotropy in porous materials, *App. Phys. B* 79 (6), (2004) 731 (26 citations)
161. V. V. Sergentu, E. Foca, S. Langa, J. Carstensen, H. Föll, and I. M. Tiginyanu, Focusing effect of photonic crystal concave lenses made from porous dielectrics, *phys. stat. sol. (a)*, 201 (5), (2004) R31 (19 citations)
162. CELLO: Ein Instrument zur Solarzellendiagnostik, *Photon-DAS SOLARSTROM-MAGAZIN*, 10/2004, 52
163. CELLO: An instrument for solar cell diagnostics, *PHOTON-International*, 10/2004, 44
164. S. Langa, S. Frey, J. Carstensen, H. Föll, I.M. Tiginyanu, M. Hermann, and G. Böttger, Waveguide Structures Based on Porous Indium Phosphide, *Electrochemical and Solid-State Letters*, 8 (2), (2005), C30 (28 citations)
165. H.-S. Kitzerow, G. Mertens, H. Matthias, H. Marsmann, R.B. Wehrspohn, S. Matthias, U. Gösele, S. Frey, and H. Föll, "Director fields of nematic liquid crystals in tunable photonic crystals", *Proc. SPIE Int. Soc. Opt. Eng.* 5926, 592605 (2005). (3 citations)
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166. E. Foca, H. Föll, F. Daschner, V. V. Sergentu, J. Carstensen, S. Frey, R. Knöchel, and I. M. Tiginyanu, Efficient focusing with a concave lens based on a photonic crystal with an unusual effective index of refraction, *phys. stat. sol. (a)*, 202 (4), (2005) R35 (11 citations)
167. Langa, L. Sirbu, E. Monaico, J. Carstensen, H. Föll, and I.M. Tiginyanu, "Morphology and chemical composition microanalysis of 2D and 3D ordered structures on porous InP", *phys. stat. sol. (a)* 202 (8), 1411 (2005). (5 citations)
168. H. Elhouichet, M. Oueslati, N. Lorrain, S. Langa, I.M. Tiginyanu, and H. Föll, "Photoluminescence mechanisms of Tb³⁺ - doped porous GaP", *phys. stat. sol. (a)* 202 (8), 1513 (2005). (5 citations)
169. E. Foca, J. Carstensen, and H. Föll, "Monte Carlo simulation of electrochemical oscillations in the electropolishing regime", *Phys. Stat. Sol. (a)* 202 (8), 1524 (2005). (8 citations)
170. S. Frey, M. Kemell, J. Carstensen, S. Langa, and H. Föll, "Fast pore etching", *phys. stat. sol. (a)* 202 (8), 1369 (2005). (35 citations)
171. V. Kochergin, M. Christophersen, and H. Föll, Adjustable optical anisotropy in porous GaAs, *Applied Phys. Lett.* 86 (1), (2005) 042108. (12 citations)
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173. S. Langa, J. Carstensen, I.M. Tiginyanu, M. Christophersen, H. Föll, Selfordering in porous III-V compounds, in "Ordered Porous Nanostructures and Applications", Ed. R.B. Wehrspohn, Springer-Verlag, (2005) 57.
174. S. Langa, J. Carstensen, M. Christophersen, K. Steen, S. Frey, I. M. Tiginyanu, and H. Föll, Uniform and Nonuniform Nucleation of Pores during the Anodization of Si, Ge, and III-V Semiconductors, *J. Electrochem. Soc.*, 152 (8), (2005) C525. (91 citations)
175. S. Frey, B. Grésillon, F. Ozanam, J.-N. Chazalviel, J. Carstensen, H. Föll, and R. B. Wehrspohn, Self-Organized Macrostructures in Anodically Formed Mesoporous Silica, *Electrochem. Sol. State Lett.*, 8 (9), (2005) B25. (24 citations)
176. E. Foca, H. Föll, F. Daschner, V. V. Sergentu, J. Carstensen, R. Knöchel, and I. M. Tiginyanu, Efficient Focusing With an Ultra-Low Effective-Index Lens Based on Photonic Crystals, in "Materials, Integration and Technology for Monolithic Instruments", edited by Jeremy A.Theil, Markus Böhm, Donald S. Gardner, and Travis Blalock (Mater. Res. Soc. Symp. Proc. 869, Warrendale, PA , 2005), D4.4.
177. J. Carstensen, S. Mathijssen, G. Popkirov, and H. Föll, SOLAR CELL EFFICIENCY ANALYSIS AND DEFECT IDENTIFICATION USING THE CELLO - TECHNIQUE, in Proceedings of the 20th European Photovoltaic Solar Energy Conference, Barcelona 2005, (2005) 1AV.2.40.
178. S. Mathijssen, J. Carstensen, and H. Föll, ANALYSIS OF SERIAL RESISTANCE LOSSES ON SOLAR CELLS USING THE CELLO - TECHNIQUE, in Proceedings of the 20th European Photovoltaic Solar Energy Conference, Barcelona 2005, (2005) 1AV.2.41.
179. E. Spiecker, M. Rudel, W. Jäger, M. Leisner, and H. Föll, Morphology, interface polarity and branching of electrochemically etched pores in InP, *phys. stat. sol. (a)*, 202(15), 1 (2005). (39 citations)
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[Next onstallment \(No. 181 - 240\)](#)

Statistics

 Just for fun. The first table will yield my "Hirsch Factor" (look it up). The second table gives some idea of how one develops as an author. What defines "good journals" is not so clear. Here it is just my bias and must be seen as rather approximate.

No. citation	Inst. 1	Inst. 2	Inst. 3	Inst. 4	Inst. 5	Inst. 6	
>80	14	17	7				
>70			1				
>60		1	4				
>50	2		1				
>40	8	3	2				

	Inst. 1	Inst. 2	Inst. 3	Inst. 4	Inst. 5	Inst. 6	
First Author	35	17	8				
Good Journals	34	25	38				