

E. Talik:

Publikacje:

1. E. Talik, M. Skutecka, J. Kusz, H. Bóhm, T. Mydlarz, J. Jarosz
"Electronic structure and magnetic properties of GdRhAl single crystals " J. Alloys and Compounds 363 (2004) 52-59.
2. H. Misiorek, J. Stepień - Damm, W. Suski, E. Talik, B. Y. Kotur, V. M. Dmitriev
"Lattice parameters, magnetic susceptibility and thermal conductivity of ScFe₄Al₈ and YFe₄Al₈ "
J. Alloys and Compounds 363 (2004) 78-84.
3. V. M. Dmitriev, J. Stepień-Damm, W. Suski, E. Talik N. N. Prentslau
„Possible coexistence of antiferromagnetism, spin-glass and superconductivity in ScFe₄Al₈ and single crystals"
Phys. Stat. Sol.(c) 1 (2004) 1824-1827.
4. Anna Pajaczkowska, Andrey Novoselov, Detlef Klimm, Ewa Talik, and Reinhard Uecker
„Does Valency of Pr Ions Influence Color of SrPrGa₀₄ Single Crystals? "
Crystal Growth and Design. 4 (2004) 497 - 501.
5. E. Talik, M. Skutecka, J. Kusz, H. H. Bbhm
"Magnetic properties of DyPdAl "
J. Magn. Mater. 272-276 (2004) 767-768.
6. A. Guzik, E. Talik, M. Kuznietz
"Electronic structure of TbNi₂Ge₂ by the XPS method" J.
Magn. Mater. 272-276 (2004) 589-590.
7. E. Talik, M. Kruczek, H. Sakowska, Z. Ujma, M. Gała, M. Neumann
"XPS characterization of Neodymium Gallate wafers" J. Alloys and Compounds 377 (2004) 259-267.
8. E. Ksepko, E. Talik, A. Ratuszna, A. Molak, Z. Ujma, I. Gruszka
"XPS examination of newly obtained (Na_{0.5}Pb_{0.5})(Mn_{0.5}Nb_{0.5})O₃ ceramics" J.
Alloys and Compounds 386 (2005) 35-42.
9. M. Kulpa, E. Talik, A. Winiarski, T. Mydlarz, A. Gilewski, J. Kusz, H. Bóhm, W. Suski
„Electronic structure and magnetic properties of ScMn₂ single crystal " J. Alloys and Compounds 386 (2005) 82-86.
10. M. Kruczek, E. Talik, H. Sakowska, M. Gała, M. Świrkowicz
"X-ray photoelectron spectroscopy investigations of Y₃Al₅O₁₂: Yb single crystal"
Crystal Research and Technology 40 (2005) 439-443.
11. M. Kruczek, E. Talik, H. Sakowska, W. Szyrski, Z. Ujma, D. Skrzypek
"XPS investigations of YVO₄: Tm, Yb single crystal" J. Crystal Growth 275

(2005) e1715-e1720.

12. E. Talik, M. Kruczek, H. Sakowska, W. Szyrski
"Characterization of NdGaO₃ grown along [110] direction by the XPS method "
J. Crystal Growth 275 (2005) e1721-e1725.
13. E. Talik, M. Skutecka, T. Mydlarz, J. Kusz, H. Böhme
„Role of hybridization in magnetic properties of DyPdAl single crystals"
J. Alloys and Compounds 391 (2005) 1-7.
14. E. Talik, R. Babiarczyk, A. Dziędzic
"Chemical characterization of selected high copper dental amalgams using XPS and XRD techniques"
J. Alloys and Compounds 398 (2005) 276-282.
15. D. Gogova, C. Hemmingsson, B. Monemar, E. Talik, M. Kruczek,
F. Tuomisto⁴ and K. Saarinen⁴
„Investigation of the structural and optical properties of free-standing GaN grown by HVPE"
Journal of Physics D: Applied Physics 38 (2005) 2332-2337.
16. J. Pastuszka, E. Talik, A. Hacura, J. Słoka
„Chemical characterization of airborne using x-ray photoelectron spectroscopy (XPS) and Fourier transform infrared spectroscopy (FTIR) "
Aerobiologia 21 (2005) 181-192.
17. M. Kruczek, E. Talik, A.A. Pawlak, T. Łukasiewicz
"XPS studies of PrAlO₃ crystals before and after thermal treatment"
Optica Applicata 35 (2005) 347-354.
18. E. Talik, M. Klimczak, A. Winiarski and R. Troć
"Gd₇T₃ (T = Rh, Pd) intermetallics crystal growth "
J. Crystal Growth 283 (2005) 547-552.
19. A. Kania, E. Talik, M. Kruczek and A. Słodczyk
"Probing structural disorder in (1-x)PbMg_{1/3}Nb_{2/3}O₃ - xPbTiO₃ single crystals by X-ray photoelectron spectroscopy"
J. Phys.: Condensed Matter. 17 (2005) 6737-6749.
20. P. Piszczek, M. Richter, A. Grodzicki, E. Talik and J. Heimann
"CVD of thin titanium dioxide films using hexanuclear titanium OxoCrboxylate Isopropoxides "
Chemical Vapour Deposition 11 (2005) 399-403.
- 21.1. Franke, E. Talik, K. Roleder
„Temperature stability of elastic and piezoelectric properties in LiNbO₃ single crystal"
Journal of Physics D: Applied Physics 38 (2005) 1-5.

22. D. Gogova, E. Talik, LG. Ivanov, B. Monemar
"Large-area free-standing GaN substrate grown by hydride vapour phase epitaxy on epitaxial lateral overgrown GaN template"
" Physica B 371 (2006)133-139.
23. M. Adamiec, E. Talik, A. Gładki
"Investigation of surface cleaning procedure of InP: S (100) substrates by high resolution XPS"
Applied Surface Science 252 (2006) 3481-3487.
24. A. Molak, E. Talik, M. Kruczek, M. Paluch, A. Ratuszna, Z. Ujma
"Characterisation of Pb(Mn_{1/3}Nb_{2/3})O₃ ceramics by SEM, XRD, XPS and dielectric permittivity tests "
Materials Science and Engineering B 128 (2006) 16-24.
25. I. Szfraniak, M. Połomska, B. Hilczer, E. Talik, L. Kepiński
"Characterization of PbTiO₃ nanopowders by room temperature synthesis"
Ferroelectrics 336 (2006) 279-287.
26. M. Kruczek, E. Talik, A. Kania
„Electronic structure of AgNbO₃ and NaNbO₃ studied by X-ray photoelectron spectroscopy"
Solid State Communications 137 (2006) 469-473.
27. E. Talik, J. Kusz, W. Hofmeister, M. Matlak, M. Skutecka, M. Klimczak
"Properties of the GdPdX (X = Al, Si, Ga, Ge, In, Sn) intermetallics " J.
Alloys and Compound 423 (2006) 47-51.
28. M. Klimczak, E. Talik, A. Winiarski, and R. Troć
„Magnetic properties of RSPd₂-type (R = Tb, Dy, Ho, Er) compounds"
" J. Alloys and Compounds 423 (2006) 62-65.
29. Ewa Talik, Wiesława Zarek, Magdalena Kruczek, Steffen Ganschow, Danuta Skrzypek, and Eustachy Popiel
„Characterization of olivine single crystals grown by the micro-pulling-down method and terrestrial olivine by XPS, Mössbauer, magnetic and EPR methods" *Crystal research and technology 41 (2006) 979 - 987.*
30. J. Grigas, E. Talik, M. Adamiec, V. Lazauskas, V. Nelkinas
„XPS and electronic structure of quasi-one-dimensional BiSI crystals "
Journal of Electron Spectroscopy and Related Phenomena 153 (2006) 22-29
31. K. Lawniczak-Jabłonska, I.N. Demczenko, E. Piskorska, A. Wolska, E. Talik, D.N. Zakharow, Z. Lilienthal-Weber
„Examination of local structure of composite and low dimensional semiconductor with X-ray absorption spectroscopy"

J. Non-Crystalline Solids 352 (2006) 4190-4199.

32. D. Skrzypek, B. Szymańska, D. Kovala-Demertzi, J. Więcek, E. Talik, M.A. Demertzis
„*Synthesis and spectroscopic studies of iron(III) complex with a quinolone family member (pipemidic acid)*”

J. of Physics and Chemistry of Solid 67 (2006) 2550-2558.

33. E. Talik, M. Klimczak, R. Troć, J. Kusz, W. Hofmeister, A. Darom
„*Comparison of the magnetic properties of Gd_7T_3 ($T=Pd, Rh$) single crystals*”
J. Alloys and Compounds 427 (2007) 30-36.

A. Ślebarski:

Publikacje:

- 1) A. Ślebarski and J. Spalek,
„*Universal scaling and quantum critical behavior of $CeRhSb_{1-x}Sn_x$* ” Phys. Rev. Lett. **95** (2005) 046402-046405.
- 2) A. Ślebarski, K. Szot, M. Gamża, H.J. Penkalla, and U. Breuer,
„*Influence of grain boundary defects on the electric transport behavior in $CeRhSn$ with non-Fermi liquid ground state*”
Phys. Rev. **B**, **72** (2005) 85443-85448.
- 3) J. Goraus, A. Ślebarski, and M. Neumann,
„*Electronic structure of $Ce\sim Sn_y$ compounds*”
J. Alloys Compounds., **401** (2005) 189-192.
- 4) J. Spalek, A. Ślebarski, J. Goraus, L. Spalek, K. Tomala, A. Zarzycki, and A. Hackemer
„*From Kondo semiconductor to a singular non-Fermi liquid via a novel quantum critical point: the case of $CeRhSb_{1-x}Sn_x$* ”
Phys. Rev. B **72** (2005) 155112-155123.
- 5) A. Ślebarski
„*Electron-correlation effects in a disordered Fe_2TiSn Heusler alloy*” J. Phys. D: Appl. Phys. **39** (2006) 856-864.
- 6) A. Ślebarski, J. Spalek, M. Gamża, and A. Hackemer
„*Nonuniversality of the non-Fermi liquid state in $CeRhSb_{1-x}Sn_x$ compounds on the Sn-rich side.*”
Phys. Rev. **B** **73** (2006) 205115-205122.
- 7) A. Ślebarski and J. Spalek

"Quantum critical behavior at the Kondo insulator-non-Fermi liquid boundary for CeRhSb_{1-x}Sn_x"

Physica **B**, **378-380** (2006) 152-153.

8) A. Ślebarski

"Half-metallic ferromagnetic ground state in

CePdSb" J. Alloys Compounds, 423 (2006) 15-20.

9) A. Ślebarski, J. Goraus, J. Deniszczyk, and Ł. Skoczeń

"Electronic structure, magnetic properties, and electrical resistivity of the Heusler

alloys Fe₂V, Ti, Al: Experiment and calculation" J. Phys.: Condens Matter., **18** (2006) 10319-10334.