

**Lista publikacji studentów fizyki
Uniwersytetu Pedagogicznego w Krakowie
w latach 2014-2019 (do trzech lat po ukończeniu studiów)**

Lista A

Rok 2014

1. J. Krzesinski, **A. Blokesz**, A.S. Baran, **S. Bachulski**
Constraining the Hydrogen Envelope Mass of a Pulsating sdB Star KIC 10670103 Through Asteroseismology
Acta Astronomica 64, 151-165 (2014) 30 pkt.

2. **U. Lewczuk**, J. Suchanicz, D. Sitko, T. Maslanka, M. Sokolowski
Pressure Effect on Dielectric Properties of 0.2Na(0.5)Bi(0.5)TiO(3)0.8BaTiO(3) Ceramics
Ferroelectrics 464, 1, 21-26 (2014) 15

3. G. Klimkowski, J. Suchanicz, **M. Karpierz**, **U. Lewczuk**, I. Faszczowy, K. Konieczny, D. Sitko, M. Antonova, A. Sternberg
Uniaxial Pressure Effect on Dielectric Properties of 0.7Na(0.5)Bi(0.5)TiO(3)-0.3SrTiO(3) Ceramics
Ferroelectrics 464, 1, 94-100 (2014) 15

4. R. J. Radwanski, **D. M. Nalecz**, Z. Ropka, R. Bujakiewicz-Koronska
Spin-orbit origin of anomalous temperature dependence of the magnetic susceptibility of PbVO₃
Ferroelectrics 461, 1, 68-75 (2014) 15

5. R. Bujakiewicz-Koronska, **D. M. Nalecz**, A. Molak, A. Budziak
DOS calculation for stoichiometric and oxygen defected (Bi_{1/2}Na_{1/2})(Mn_{1/2}Nb_{1/2})O₃
Ferroelectrics 463, 1, 48-56 (2014) 15

6. **M. Karpierz**, J. Suchanicz, R. Bujakiewicz-Koronska, T. Maslanka, N.-T. H. Kim-Ngan
Effect of Uniaxial Compressive Stress on Dielectric Properties of 0.2K0.5Bi0.5TiO₃-0.8PbTiO₃ Ceramics
Ferroelectrics 464, 1, 88-93 (2014) 15

7. Krzysztof Konieczny, Jan Suchanicz, Dorota Sitko, Włodzimierz Smiga, Beata Urban, **Monika Karpierz**, **Urszula Lewczuk**, Tomasz Maslanka, Mariusz Sokolowski
Dielectric, thermal and ferroelectric properties of Na_{0.997}Li_{0.003}NbO₃ ceramics
Phase Transitions 87, 973-981 (2014) 20

8. R.J.Radwanski, **D.M. Nalecz**, Z.Ropka
Crystal-Field Interactions in RPd₂Al₃ Intermetallics (R = Pr, Nd, Sm, and U)
Acta Physica Polonica A 126, A32 (2014) 15

9. A. K. Jasek, **K. Komędera**, A. Błachowski, K. Ruebenbauer, Z. Bukowski, J. G. Storey, and J. Karpinski

Electric field gradient wave (EFGW) in iron-based superconductor Ba_{0.6}K_{0.4}Fe₂As₂ studied by Mössbauer spectroscopy
Journal of Alloys and Compounds 609, 150-155 (2014) 35

10. E. Markiewicz, R. Bujakiewicz-Koronska, A. Budziak, A. Kalvane & **D. M. Nalecz**
Impedance spectroscopy studies of SrMnO₃, BaMnO₃ and Ba_{0.5}Sr_{0.5}MnO₃ ceramics
Phase Transitions 87 (10-11), 1060-1072 (2014) 20

11. R. Bujakiewicz-Koronska, **D.M. Nalecz**, M. Bałanda, A. Molak, Z. Ujma,
Electronic and magnetic properties of (Bi_{0.5}Na_{0.5})(Mn_{0.5}Nb_{0.5})O₃
Phase Transitions 87 (10-11), 1096-1104 (2014) 20

Rok 2015

1. Radwanski R. J., **Nalecz D. M.**, Krupska M., Piwowarczyk T., Ropka Z.
Really first principles calculations for CoF₃,
Acta Physica Polonica A, 127, 391-393 (2015) 15

2. A.S. Baran, S., Zola, **A. Blokesz**, R.H. Ostensen, R. Silvotti
Detection of a planet in the sdB+M dwarf binary system 2M1938+4603,
Astronomy & Astrophysics, 577, 6 (2015) 35

3. Renata Bujakiewicz-Koronska, Ewa Markiewicz, **Dawid M. Nalecz**, Leonid Vasylechko,
Maria Balanda, Magdalena Fitta, Ewa Juszynska-Galazka, Anna Kalvane
Physical properties of (1-x)Ba_{0.95}Pb_{0.05}TiO₃+xCo₂O₃ (x=0, 0.1, 0.3, 0.5, 1.0, 2.0wt%) ceramics
Ceramics International, 41, 3983-3991 (2015) 40

4. A. Molak, Renata Bujakiewicz-Koronska, Z. Ujma, A. Leonarska, A. Szeremeta, I. Gruszka, **D.M. Nalecz**
Electric features of PZT 70/30 - BiMnO₃ solid solution ceramics
Journal of the European Ceramic Society, 35, 2513–2522 (2015) 50

5. **Karpierz M.**, Suchanicz J., Bujakiewicz-Koronska R., Sitko D., Niewiadomski A., Sokolowski M.
Dielectric and ferroelectric properties of 0.82K_{0.5}Bi_{0.5}TiO₃-0.18PbTiO₃ ceramic: effect of uniaxial pressure
Phase Transitions, 88, 5 (2015) 20

6. **M. Karpierz**, J. Suchanicz, K. Konieczny, D. Sitko, P. Marchet, **U. Lewczuk**
Thermal, Raman and dielectric study of 0.5K_{0.5}Bi_{0.5}TiO₃-0.5PbTiO₃ ceramics
Phase Transitions, 88, 9 (2015) 20

7. **K. Komędera**, A.K. Jasek, A. Błachowski, K. Ruebenbauer, M. Piskorz, J. Żukrowski, A. Krztoń-Maziopa, E. Pomjakushina, K. Conder
Magnetism of BaFe₂Se₃ studied by Mössbauer spectroscopy
Solid State Communications, 270, 5-8 (2015) 25

8. R. Bujakiewicz – Koronska, **D. M. Nalecz**, E. Markiewicz, A. Kalvane
Electronic Properties of 6H Hexagonal SrMnO₃

- Ferroelectrics, 483, 153-160 (2015) 15
9. **D.M. Nalecz**, R. Bujakiewicz-Koronska, R.J. Radwanski
Magnetic phase transition in antiferromagnetic SrMnO₃ perovskites
 Ferroelectrics, 483, 86–94 (2015) 15
10. **A.K. Jasek**, **K. Komędera**, A. Błachowski, K. Ruebenbauer, J. Żukrowski, Z. Bukowski, J. Karpinski,
Mössbauer studies of the peculiar magnetism in parent compounds of the iron-based superconductors
 Philosophical Magazine, 95, 493-502 (2015) 30
11. A.S. Baran, J.H. Telting, P. Németh, **S. Bachulski**, J. Krzesiński
KIC 8302197: a non-rotating or low-inclination pulsating subdwarf B star observed with the Kepler spacecraft
 Astronomy & Astrophysics 573A, 52 (2015) 35
12. A. Marciniak et al. (24 autorów, w tym **E. Kosturkiewicz**)
Against the biases in spins and shapes of asteroids
 Planetary and Space Science 118, 256-266 (2015) 25

Rok 2016

1. **S. Bachulski**, A. Baran, et al.
Mode identification in a pulsating subdwarf B star EPIC212707862 observed with K2
 Acta Astronomica 66, 455 (2016) 30
2. W. Stawiński, O. Freitas, L. Chmielarz, A. Węgrzyn, **K. Komędera**, A. Błachowski, S. Figueiredo
The influence of acid treatments over vermiculite based material as adsorbent for cationic textile dyestuffs
 Chemosphere 153, 115 – 129 (2016) 35
3. A. Błachowski, **K. Komędera**, K. Ruebenbauer, G. Cios, J. Żukrowski, R. Górnicki
Electric quadrupole interaction in cubic BCC α -Fe
 Journal of Alloys and Compounds 673, 420 – 425 (2016) 35
4. A.K. Jasek, **K. Komędera**, A. Błachowski, K. Ruebenbauer, H. Lochmajer, N.D. Zhigadlo, K. Rogacki
Change of the charge modulation during superconducting transition in SmFeAsO_{0.91}F_{0.09} seen by ⁵⁷Fe Mössbauer spectroscopy
 Journal of Alloys and Compounds 658, 520 – 524 (2016) 35
5. **K. Komędera**, A.K. Jasek, A. Błachowski, K. Ruebenbauer, J. Żukrowski, A. Krztoń-Maziopa, K. Conder
Structural disorder in Li_x(C₅H₅N)_yFe₂-zSe₂ and Cs_xFe₂-zSe₂ superconductors studied by Mössbauer spectroscopy
 Journal of Magnetism and Magnetic Materials 406, 244 – 250 (2016) 30
6. **K. Komędera**, A.K. Jasek, A. Błachowski, K. Ruebenbauer, A. Krztoń-Maziopa

Magnetic anisotropy in FeSb studied by ^{57}Fe Mössbauer spectroscopy
Journal of Magnetism and Magnetic Materials 399, 221 – 227 (2016) 30

7. R.J. Radwanski, D.M. Nalecz, **S.S. Fedyk**, Z. Ropka
EuTiO₃: the low-energy electronic structure of Eu²⁺ from the specific heat
Materials Chemistry and Physics 186, 426-429 (2016) 30

8. Hanus, J. et al. (169 autorów , w tym **E. Kosturkiewicz**)
New and updated convex shape models of asteroids based on optical data from a large collaboration network
Astronomy & Astrophysics 586, id.A108, 24 pp. 35

Rok 2017

1. I. Jankowska–Sumara, **M. Podgórna**, A. Majchrowski, J. Żukrowski
Thermal analysis of phase transitions in PbZr_{1-x}Sn_xO₃ antiferroelectric single crystals.
Journal of Thermal Analysis and Calorimetry 128, 713–719 (2017) 25

2. **Maria Podgórna**, Jan Żukrowski, Irena Jankowska-Sumara, Andrzej Majchrowski, Katarzyna Berent
Peculiarities of antiferroelectric phase transitions in PbZr_{0.71}Sn_{0.29}O₃ crystal by Mössbauer effect.
Physica Status Solidi (B) 254, 1700137 (2017) 20

3. I. Jankowska–Sumara, D. Sitko, **M. Podgórna**, M. Pilch
The electromechanical behavior of europium doped BaTiO₃
Journal of Alloys and Compounds 724, 703–710 (2017) 35

4. Irena Jankowska-Sumara, Jae-Hyeon Ko, **Maria Podgórna**, Soo Han Oh, Andrzej Majchrowski
Micro–Raman scattering and dielectric investigations of phase transitions behavior in the PbHf_{0.7}Sn_{0.3}O₃ single crystal
Journal of Applied Physics 122, 104104 (2017) 35

5. R. J. Radwanski, D. M. Nalecz, **S. S. Fedyk**, Z. Ropka
EuTiO₃: the low–energy electronic structure of Eu²⁺ from the specific heat
Materials Chemistry and Physics 186, 426–429 (2017) 35

Rok 2018

1. **M. Podgórna**, M. Ptak, M. Chrunik, I. Jankowska-Sumara, J. Piecha, and D. Zasada
The investigations of Phase Transitions in the (1-x)PbZrO₃-xBiFeO₃ nanocrystals using differential scanning calorimetry and Raman spectroscopy
Journal Of Applied Physics 124, 054102 (2018) 35

2. R. Radwański, D. Nałęcz, **S. Fedyk**, Z. Ropka
Localized f Electron Aspect in Heavy-Fermion Intermetallic YbRh₂Si₂
Acta Physica Polonica A 133, 387-390 (2018) 15

3. N.-T.H. Kim-Ngan, Z. Tarnawski, M. Chrobak, S. Sowa, **A. Duda**, M. Paukov, V. Buturlim, L. Havela
Superconducting Phase Transitions in mK temperature range in splat-cooled U_{0.85}Pt_{0.15} alloys.
 Physica B-Condensed Matter 536, 708-712 (2018) 20

4. N.-T.H. Kim-Ngan, L. Havela, M. Paukov, D. Drozdenko, P. Minarik, M. Chrobak, Z. Tarnawski, S. Sowa, M. Krupska, **A. Duda**
Superconductivity in U-Pt system with low Pt concentrations (≤ 15 at.%)
 Physica C-Superconductivity and its Applications 546, 76-83 (2018) 20

5. Jung-Taek Hong, Byoung Wan Lee, Jae-Hyeon Ko, Irena Jankowska-Sumara, **Maria Podgórna**, Andrzej Majchrowski
Effect of Sn substitution on the elastic anomalies and phase transition behaviors of antiferroelectric PbHfO₃ single crystals studied by Brillouin scattering
 Current Applied Physics 18, 642-647 (2018) 30

2019

K. Bąk, M. Bąk, **J. Gatlik**, A. Błachowski
Oscillating redox conditions in the Middle–Late Jurassic Alpine Tethys: Insights from selected geochemical indices and ⁵⁷Fe Mössbauer spectroscopy
 Palaeogeography, Palaeoclimatology, Palaeoecology, accepted (2019) 100

Pozostale czasopisma recenzowane i wydawnictwa konferencyjne

2014

1. J. Krzesinski, **S. Bachulski**
Being rich helps - the case of the sdBV KIC 10670103
 IAUS 301, 309, 2014

2015

1. **D. M. Nalecz**, R. J. Radwanski, R. Bujakiewicz-Koronska
Magnetic phase transition in antiferromagnetic SrMnO₃ and K₂CoF₄ perovskites,
 Cracow Colloquium on f-electron systems (CCFES2015), 24-27.06.2015, Kraków, Polska

2. R. J. Radwanski, **D. M. Nalecz**, Z. Ropka
Really first principles calculations - Quantum Atomistic Solid State Theory (QUASST) for UPd₂Al₃, UGa₂ and UO₂
 Cracow Colloquium on f-electron systems (CCFES2015), 24-27.06.2015, Kraków, Polska

3. **K. Komędera**, A.K. Jasek, A. Błachowski, K. Ruebenbauer, J. Żukrowski, A. Krztoń-Maziopa,
Structural disorder in AxFe_{2-z}Se₂ superconductors studied by Mössbauer spectroscopy,
 XVII Krajowa Konferencja Nadprzewodnictwa, Karpacz (2015)

4. P. Sowicka, **S. Bachulski**, A. Baran

A search for pulsating blue stars in the vicinity of NGC 6791 using Kepler LC data
EPJ Web Conf.10106061, 2015

2016

1. Krupska, S. Sowa, **A. Duda**, N.-T. H. Kim-Ngan

Characterization and Modification of Fe Thin Film Deposited on SiO₂/Si(001)

Proceedings of the International Conference Nanomaterials: Applications and Properties
Vol. 5 No 1, 01PCSI12(2pp), 2016

2. **S. Bachulski**, A.S. Baran, M. Curyło

Searching for planets around sdB stars

Proceedings IAU Astronomy in Focus, XXIX General Assembly, 2015, vol. 29B, 497, 2016

2017

1. T.V. Kruzina, **A.Yu. Tuluk**, V.M. Sidak, M.P. Trubitsyn, S.A. Popov, J. Suchanicz

Impedance spectra of the Na_{0.5}Bi_{0.5}TiO₃ single crystals and ceramics

XXXXVI International Symposium DyProSo, Kraków 27-31 Aug. 2017. Book of Abstracts,
p. 78 , 2017

2. **A. Gurgul**; W. Ogłóza; M. Żejmo

A preliminary results of allskypolarisation survey

KOŁOS Conference, 30.11 - 2.12.2017, Vihorlat Observatory Humenne, Słowacja (poster)

2018

1. **J. Gatlik**, A. Błachowski, K. Komędera, M. Bąk, K. Bąk,

⁵⁷Fe Mössbauer spectroscopy of Jurassic silica-carbonate sedimentary rocks

XII Ogólnopolskie Seminarium Spektroskopii Mössbauerowskiej OSSM-2018, Goniądz,
2018

2. **J. Gatlik**, A. Błachowski, K. Komędera, M. Bąk, K. Bąk,

*Analiza jurajskich skał krzemionkowo-węglanowych jednostki krížniańskiej w Tatrach
metodą spektroskopii mössbauerowskiej ⁵⁷Fe*

Polska Konferencja Sedymentologiczna POKOS7, Góra Św. Anny, 2018

3. **J. Gatlik**, A. Błachowski, K. Komędera, M. Bąk, K. Bąk,

Spektroskopia mössbauerowska ⁵⁷Fe w badaniach skał osadowych

Polska Konferencja Sedymentologiczna POKOS7, Góra Św. Anny, 2018 (poster)

2019

1. **J. Gatlik**, K. Komędera, A. Błachowski, M. Rakociński,

*Spektroskopia Mössbauera ⁵⁷Fe w analizie paleośrodowiskowych warunków redox
dewońskiego kryzysu Hangenberg,*

45. Zjazd Fizyków Polskich, Kraków, 2019

2. A. Błachowski, K. Komędera, **J. Gatlik**, J. Żukrowski, Z. Bukowski,

Magnetyzm i nadprzewodnictwo w związkach na bazie EuFe_2As_2 - badania metodą spektroskopii Mössbauera,
45. Zjazd Fizyków Polskich, Kraków, 2019

3. K. Komędera, **J. Gatlik**, A. Błachowski, J. Żukrowski, T.J. Sato, M. Babij, Z. Bukowski,
Interplay of magnetism, nematicity and superconductivity in '122' iron-pnictides studied by Mössbauer spectroscopy
XIX Krajowa Konferencja Nadprzewodnictwa, Bronisławów, 2019

4. K. Komędera, **J. Gatlik**, A. Błachowski, J. Żukrowski, D. Rybicki, M. Babij, Z. Bukowski,
Why is $\text{Eu}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$ not a superconductor? - ^{57}Fe and ^{151}Eu Mössbauer study,
XIX Krajowa Konferencja Nadprzewodnictwa, Bronisławów 2019

5. K. Komędera, **J. Gatlik**, A. Błachowski, J. Żukrowski, Z. Bukowski,
Mössbauer study of YFe_2Ge_2
XIX Krajowa Konferencja Nadprzewodnictwa, Bronisławów, 2019