

- [1]. K.Komędera, J.Gatlik, A.Błachowski, J.Żukrowski, D.Rybicki, A.Delekta, M.Babij, Z.Bukowski,
⁵⁷Fe and ¹⁵¹Eu Mössbauer studies of 3d-4f spin interplay in EuFe_{2-x}Ni_xAs₂,
[arXiv:2103.12698](https://arxiv.org/abs/2103.12698) (2021)
- [2]. K.Komędera, J.Gatlik, A.Błachowski, J.Żukrowski, T.J.Sato, D.Legut, U.D.Wdowik,
Mössbauer studies of spin and charge modulations in BaFe₂(As_{1-x}P_x)₂,
Physical Review B **103**, 024526 (2021)
- [3]. K.Komędera, A.Błachowski, K.Ruebenbauer, J.Żukrowski, S.M.Dubiel, L.M.Tran,
M.Babij, Z.Bukowski,
Mössbauer study of Eu_{0.57}Ca_{0.43}Fe₂As₂ and Eu_{0.73}Ca_{0.27}(Fe_{0.87}Co_{0.13})₂As₂: A comparison to
'122' iron-based superconductors parent compounds EuFe₂As₂ and CaFe₂As₂,
Journal of Magnetism and Magnetic Materials **457**, 1 (2018)
- [4]. K.Ziewiec, M.Wojciechowska, K.Prusik, K.Komędera, A.Błachowski, I.Jankowska-
Sumara,
Formation and microstructure of the amorphous/crystalline Fe₅₅Ni₂₀Cu₅P₁₀Si₅B₅ composite
produced by two-component melt-spinning,
Journal of Alloys and Compounds **750**, 471 (2018)
- [5]. A.Węgrzyn, W.Stawiński, O.Freitas, K.Komędera, A.Błachowski, Ł.Jęczmionek, T.Dańko,
G.Mordarski, S.Figueiredo,
Study of adsorptive materials obtained by wet fine milling and acid activation of
vermiculite,
Applied Clay Science **155**, 37 (2018)
- [6]. K.Komędera, A.Pierzga, A.Błachowski, K.Ruebenbauer, A.Budziak, S.Katrych,
J.Karpinski,
Magnetism of PrFeAsO parent compound for iron-based superconductors:
Mössbauer spectroscopy study,
Journal of Alloys and Compounds **717**, 350 (2017)
- [7]. J.Żukrowski, A.Błachowski, K.Komędera, K.Ruebenbauer, G.Gabka, P.Bujak, A.Pron,
M.Przybylski,
Dynamics of ternary Cu-Fe-S₂ nanoparticles stabilized by organic ligands,
Journal of Physical Chemistry C **121**, 6977 (2017)
- [8]. A.Pierzga, A.Błachowski, K.Komędera, K.Ruebenbauer, A.Kalvane, R.Bujakiewicz-
Korońska,
Orientation of the electric field gradient and ellipticity of the magnetic cycloid in
multiferroic BiFeO₃,
Philosophical Magazine **97**, 168 (2017)
- [9]. S.Boncel, A.Pluta, M.Skonieczna, A.Gondela, B.Maciejewska, A.P.Herman,
R.G.Jędrzyak, S.Budniok, K.Komędera, A.Błachowski, K.Walczak,
Hybrids of iron-filled multi-wall carbon nanotubes and anticancer agents as potential
magnetic Drug Delivery Systems,
Journal of Nanomaterials **2017**, 1262309 (2017)
- [10]. A.Błachowski, A.K.Jasek, K.Komędera, A.Pierzga, K.Ruebenbauer, J.Żukrowski,
Mössbauer studies of iron-based superconductors,
WIT Transactions on Engineering Series **116**, 151 (2017)

- [11]. 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 (2016)
- [12]. 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 $\text{SmFeAsO}_{0.91}\text{F}_{0.09}$ seen by ^{57}Fe Mössbauer spectroscopy, *Journal of Alloys and Compounds* **658**, 520 (2016)
- [13]. K. Komędera, A.K. Jasek, A. Błachowski, K. Ruebenbauer, J. Żukrowski, A. Krztoń-Maziopa, K. Conder, Structural disorder in $\text{Li}_x(\text{C}_5\text{H}_5\text{N})_y\text{Fe}_{2-z}\text{Se}_2$ and $\text{Cs}_x\text{Fe}_{2-z}\text{Se}_2$ superconductors studied by Mössbauer spectroscopy, *Journal of Magnetism and Magnetic Materials* **406**, 244 (2016)
- [14]. 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 (2016)
- [15]. 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 (2016)
- [16]. K. Komędera, A.K. Jasek, A. Błachowski, K. Ruebenbauer, M. Piskorz, J. Żukrowski, A. Krztoń-Maziopa, E. Pomjakushina, K. Conder, Magnetism of BaFe_2Se_3 studied by Mössbauer spectroscopy, *Solid State Communications* **270**, 5 (2015)
- [17]. 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 (2015)
- [18]. A.K. Jasek, K. Komędera, A. Błachowski, K. Ruebenbauer, Z. Bukowski, J.G. Storey, J. Karpinski, Electric field gradient wave (EFGW) in iron-based superconductor $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ studied by Mössbauer spectroscopy, *Journal of Alloys and Compounds* **609**, 150 (2014)