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- [84] K. Jasiewicz, J. Cieślak, S. Kaprzyk, J. Toboła, *Journal of Alloys and Compounds*; 2015 vol. **648**, s. 307–312. Relative crystal stability of $Al_xFeNiCrCo$ high entropy alloys from XRD analysis and formation energy calculation.
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- [91] J. Cieslak, J. Tobola, S. M. Dubiel, *Computational Materials Science*; 2016 vol. **122**, s. 229–239 Site occupancies in sigma-phase Fe–Cr–X(X = Co;Ni) alloys: calculations versus experiment.
- [92] J. Cieslak and J. Tobola, *Data in Brief*; 10 (2017) 454; Total energy of sigma-phase Fe-Cr-X (X=Co, Ni) alloys: Calculated and modeled data.
- [93] J. Cieslak, J. Tobola, M. Reissner, *Acta Materialia*; 2017 vol. **123**, s. 35–43 Magnetic properties of sigma-phase FeCrX(X = Co;Ni) alloys: experimental and theoretical study.
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- [106] Maciej MOŹDZIERZ, Konrad ŚWIERCZEK, Juliusz DĄBROWA, Marta GAJEWSKA, Anna HANC, Zhenhe Feng, Jakub CIEŚLAK, Mariola Kądziołka-Gaweł, Justyna PŁOTEK, Mateusz MARZEC, Andrzej KULKA, *ACS Applied Materials & Interfaces*; 2022 vol. **14** iss. 37, s. 42057-42070 High-Entropy $\text{Sn}_{0.8}(\text{Co}_{0.2}\text{Mg}_{0.2}\text{Mn}_{0.2}\text{Ni}_{0.2}\text{Zn}_{0.2})_{2.2}\text{O}_4$ Conversion-Alloying Anode Material for Li-Ion Cells: Altered Lithium Storage Mechanism, Activation of Mg, and Origins of the Improved Cycling Stability
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- [108] J. CIEŚLAK, M. Reissner, J. DĄBROWA, K. ZIELIŃSKA, *Journal of Magnetism and Magnetic Materials*; 2022 vol. **582**, s. 1-5 Magnetization measurements of multicomponent iron garnets

Participation in scientific conferences in the period after obtaining the habilitation degree

4th International Conference on Superconductivity and Magnetism, ICSM2014, Antalya, 26 April- 2 May 2014.

1. J. Cieślak, S. M. Dubiel, M. Reissner, On the magnetism of sigma-phase Fe-Re compounds. ORAL
2. J. Cieślak, M. Reissner, S. M. Dubiel. Magnetic Properties of the Fe-Cr-based Three-Component Sigma Phases. ORAL
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1. J. Cieślak, J. Toboła, S. M. Dubiel. Site occupancy in sigma-Fe-Cr-Ni alloys from formation energy calculations. ORAL
2. S. M. Dubiel, J. Cieślak, J. Przewoźnik. Structural and electronic properties of mu-phase Fe-Mo compounds. ORAL
3. K. Jasiewicz, J. Cieślak, M. Śmiechowski, J. Toboła. Relative crystal stability of Al_x-Fe-Ni-Cr-Co high entropy alloys from XRD analysis and formation energy calculations.
4. K. Jasiewicz, J. Cieślak, J. Toboła. Electronic structure and magnetic properties of bcc vs. fcc Al_x-Fe-Ni-Cr-Co high entropy alloys.

International Conference on the Applications of the Mossbauer Effect ICAME 2015, Hamburg, Germany, 13 - 18 September 2015.

1. J. Cieślak, M. Reissner, J. Toboła, S.M. Dubiel Mossbauer study of σ -phase in FeMo and FeCrMo alloys.
2. J. Cieślak, J. Toboła, Magnetic properties of Al_xFeNiCrCo High Entropy Alloys.
3. S.M. Dubiel, J. Zukrowski, J. Cieślak. The Debye temperature of single-crystal Cr and Cr1.5%Al as measured using 119Sn Mössbauer effect.
4. J. Cieślak, M. Reissner, J. Toboła, S.M. Dubiel. Site occupancy in sigma-Fe-Cr-Mo alloys from formation energy calculations
5. S.M. Dubiel, J. Cieślak J. Zukrowski, Effect of quenching medium on Cr atom distribution in Fe-rich Fe-Cr alloys,
6. S.M. Dubiel, J. Cieślak, Determination of the Debye temperature of ferrous and ferric ions in Fe-gluconate

ICANM 2015: International Conference & Exhibition on Advanced & Nano Materials August 12-14, 2015, Ottawa, Canada.

1. J. Cieślak, M. Reissner, J. Toboła, S.M. Dubiel Site occupancy and magnetic properties of sigma-FeCrX, (X=Co,Ni,Mo) alloys ORAL
2. J. Cieślak, J. Toboła, M. Marciszko, Relative crystal stability of Al_xFeNiCrCo High Entropy Alloys from XRD analysis and formation energy calculation, ORAL

XX International Conference on Solid Compounds of Transition Elements, 11-15 April 2016, Zaragoza, Spain.

1. J. Cieslak, J. Tobola, K. Berent and M. Marciszko Phase coexistence in Al_xFeNiCrCo high entropy alloys: experimental and theoretical study. ORAL
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3. J. Cieslak, M. Reissner, J. Tobola, Magnetic properties of σ -FeCrCo alloys
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Ogólnopolskie Seminarium Spektroskopii Mossbauerowskiej, 19-22 czerwca 2016, Turno. J. Cieslak, J. Tobola, K. Berent, M. Marciszko Badania stopów wysokiej entropii otrzymanych metoda spiekania. ORAL

International Conference on High-Entropy Materials, 6-9 November 2016, Hsinchu, Taiwan J. Cieslak, J. Tobola, K. Berent and M. Marciszko Phase coexistence in Al_xFeNiCrCo high entropy alloys: experimental and theoretical study. ORAL

C-MAC Days, 21-23 November 2016, Bratislava, Slovakia. J. Cieslak, J. Tobola, K. Berent and M. Marciszko Phase coexistence in Al_xFeNiCrCo high entropy alloys: experimental and theoretical study ORAL

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1. J. Cieslak, J. Tobola, K. Berent, M. Calvo-Dahlborg, U. Dahlborg, J. Cornide, S. Mehraban, "Phase coexistence and corrosion resistance of Cr_xAlFeNiCo High Entropy Alloys: experimental and theoretical study", ORAL.
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23rd SOFT MAGNETIC MATERIALS CONFERENCE 10-13.09.2017 Sevilla, Spain
M. Calvo-Dahlborg, J. Cornide, F. Richomme, J. Juraszek, J. Cieslak, K. Matusiak, U. Dahlborg, T.C. Hansen, A. Fitch, "Investigation of the soft magnetism of some High Entropy Alloys",

Biogeography of the Carpathians, 28-30.09.2017, Cluj-Napoca Romania E. Cieslak, J. Cieslak and M. Ronikier, Population genetic structure of Cochlearia tatreae Borb'as (Brassicaceae) – a narrow endemic species of the Tatra Mts

THERMEC'2018 International Conference on PROCESSING and MANUFACTURING OF ADVANCED MATERIALS Processing, Fabrication, Properties, Applications, Jul 8-13, 2018, Paris J. Cieslak, J. Tobola, K. Berent, K. Matusiak, A. Kania, M. Calvo-Dahlborg, Phase Stability of FeCrCoNi-based High Entropy Alloys: Experimental and Theoretical Study, ORAL

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1. J. Cieslak, K. Matusiak, P. Sliwa, Mossbauer investigations of the sigma-phase in FeCrNiCobased HEA system, ORAL
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Frontiers in Materials Processing Applications, Research and Technology, FiMPART, Ahmedabad, India, Dec 15-18, 2019 J. Cieslak, J. Tobola, M. Calvo-Dahlborg, U. Dahlborg, M. Reissner, J. Dabrowa, M. Stygar, and M. Mozdierz Magnetic properties of selected high entropy materials, ORAL-INVITED

City University of Hong Kong, Department of Physics, 11 December 2019, Hong Kong, China J. Cieslak, J. Tobola, M. Calvo-Dahlborg, U. Dahlborg, M. Reissner, Magnetic properties of selected FeCrNiCo based high entropy alloys, ORAL-INVITED

International Conference on Hyperfine Interactions and its applications (Hyperfine 2019), Goa 10-15 February 2019 J. Cieslak, Mossbauer investigations of FeCrNiCo -based high entropy alloys, ORAL

ICHEM 2020: third International Conference on High Entropy Materials. Berlin, Germany, 2020. J. Cieslak, M. Reissner, J. Dabrowa, M. Stygar, and M. Mozdierz. Mossbauer and magnetic investigations of High Entropy Oxides. ORAL

ICAME 2021, International Conference on the Applications of the Mössbauer Effect, Brasov, Romania, September 5-10, J. Cieslak, M. Reissner, J. Dąbrowa, M. Stygar, M. Mozdierz. Mossbauer Investigations of High Entropy Oxides. ORAL

SCTE 2022, International conference on Solid Compounds of Transition Elements: 14–17 June 2022, Bordeaux, France, J. CIEŚLAK, M. Reissner, J. DĄBROWA, M. STYGAR, M. MOŹDZIERZ. Structural and magnetic properties of High Entropy Oxides. ORAL

23rd international conference on Solid State Ionics: July 17–22, 2022, Boston, MA,

1. M. MOŹDZIERZ, K. ŚWIERCZEK, J. DĄBROWA, M. GAJEWSKA, J. CIEŚLAK, Origins of excellent cycling stability in the Sn-rich spinel-structured high entropy oxide anode materials for Li-Ion cells
2. M. STYGAR, J. DĄBROWA, M. ZAJUSZ, J. CIEŚLAK, M. MOŹDZIERZ, K. BERENT, E. DURDA, Exploring the structures and properties of functional high-entropy spinel materials

IUMRS-ICAM & ICMAT 2023: 11th International Conference on Materials for Advanced Technologies : 26th–30th June 2023, Suntec, Singapore M. MOŹDZIERZ, K. ŚWIERCZEK, J. DĄBROWA, M. GAJEWSKA, J. CIEŚLAK Explaining the excellent cycling stability in the novel conversion-alloying spinel-structured high-entropy oxide anode material for Li-ion cells

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