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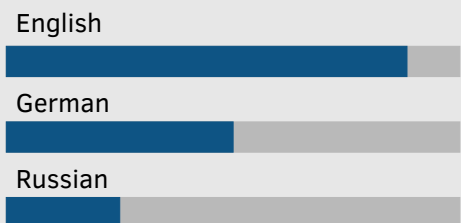
About me

Leading scientist
Head of scientific division
Official representative of Slovakia in
the European XFEL Council
Member of scientific board

H-Index (WoS): 22
No. of publications (WoS): 133
No. of citations (WoS): 1706

WoS ID: ABE-5687-2020
Scopus ID: 6602635254
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Language skills



(*)[Škála 0 (základ) a 6 (expert)]

Professional Experience

- 1997–current Institute of Materials Research, SAS, Košice, Slovakia
Head of scientific team.
Materials research and development. Preparation and characterization of biodegradable materials, thermoelectric materials, materials for Li-ion batteries, metallic alloys for hydrogen storage and their implementation in practice.
- 2002–2007 HASYLAB at DESY Hamburg, Germany
Postdoctoral researcher.
Study of the structure of highly disordered materials (amorphous substances, nanocrystals), at ambient as well as at high-temperature and high-pressure conditions.
- 2001 Department of Physics, DTU Copenhagen, Dánsko
Postdoctoral researcher.
Preparation and evaluation of amorphous, crystalline and quasi-crystalline materials in nonequilibrium conditions.

Education and Academic Degrees

- 2021 doc. (docens, lat.) Košice
UPJŠ
- 2010 DrSc. (Doctor Scientiarum, lat.) Košice
TUKE
- 2000 PhD. (Philosophiae Doctor, lat.) Košice
TUKE
- 1997 Ing. (Ingénieur, lat.) Košice
TUKE

Significant Professional Activities

- from 2010 *official representative of Slovakia in the European XFEL Council.*
- 2014–2020 *official representative of Slovakia in the user consortia Serial Femto-second Crystallography and the XFEL Biology Infrastructure.*
- 2009–2013 *member of Scientific Advisory Committee of the European XFEL.*
- 2009–current *member and scientific secretary of the Commission for the Coordination of Activities of the Slovak Republic in the ESFRI projects focused on materials, physical, biology, medical, chemical sciences and IT.*
- 2012–2016 *Member of the VEGA Commission No. 7 for Mechanical engineering, information and communication technologies and materials science.*
- 2010 *Honorable acknowledgement in the award Scientist of the Year of the Slovak Republic 2009 for a breakthrough discovery of "Saturated absorption of aluminum" using a record soft X-rays intensity radiation.*
- 2009 *Honorable acknowledgement in the award Scientist of the Year of the Slovak Republic 2008 for the scientific work "How Metallic Fe Controls the Composition of its Native Oxide", published in one of the world's most prestigious scientific journals dedicated to solid state physics "PHYSICAL REVIEW LETTERS".*
- 2008 *Honorable acknowledgement in the award Scientist of the Year of the Slovak Republic 2008 for the scientific work "Atomic structure of glassy Mg₆₀Cu₃₀Y₁₀ investigated with EXAFS, X-ray and neutron diffraction, and reverse Monte Carlo simulations", , published in one of the world's most prestigious scientific journals dedicated to solid state physics "PHYSICAL REVIEW B".*

Participation in Scientific Projects

EÚ projects:

- 2008 – 2012 7.RP EÚ PITN-GA-2008-211536, "Macro, Micro and Nano Aspects of Machining"– *scientist in charge*.
- 2001 - 2004 5.RP EÚ G5RD-CT 2000 - 00341, "High efficiency forming technology of light weight MMC components for automotive and household application"– *member of research team*.
- 1997 - 1999 4.RP INCO-Copernicus CT- 96 0750, "Formability modelling of aluminium base PM alloys"– *member of research team*.

APVV projects:

- 2020 – current APVV-20-0205, "Research and development of new high entropy alloys for efficient hydrogen storage in energy applications"– *project leader*.
- 2020 – current APVV-20-0068, "Development of new bioresorbable alloys for intracellular implants"– *member of the research team*.
- 2020 – current APVV-20-0138, "Development of novel 3D materials for post lithium ion batteries with high energy density"– *member of the research team*.
- 2020 - 2021 PP-COVID-20-0025, "Development of a highly efficient three-component composite filter for the elimination of COVID 19 virus."– *member of the research team*.
- 2017 – 2020 APVV-17-0008, "Development of new biodegradable metal alloys for medical and prosthetic applications"– *project leader*.
- 2015 - 2018 APVV-15-0202, "Development of equipment for efficient compression and storage of hydrogen using new metal hydride alloys"– *member of the research team*.
- 2014 – 2017 APVV-14-0085, "Development of a new generation of power electronics connections using non-standard tin-based alloys"– *member of the research team*.

International M-Era.Net projects:

- 2022 - current "Enhancement of Hydrogen Storage Properties of AlTiVCr Light Weight High Entropy Alloys (HEA) by Ti3C2 Mxene and Several Plastic Deformation"– *scientist in charge at the IMR SAS*.
- 2014 – 2017 "ExploGuard – Novel explosive welded corrosion resistant clad materials for geothermal plants"– *scientist in charge at the IMR SAS*.

VEGA projects:

- 2022 - current 2/0039/22 "Research and development of highentropy alloys for efficient hydrogen storage"– *project leader*.
- 2019 - 2021 2/0013/19 "Development of new biodegradable metal alloys for medical applications"– *project leader*.
- 2016 - 2018 2/0021/16 "Research and development of metallic glasses and nanocrystalline materials"– *member of the research team*.
- 2013 - 2015 2/0128/13 "Study of structure and thermal stability of metallic glasses and nanocrystalline materials"– *member of the research team*.
- 2009 - 2012 2/0167/10 "Structural stability of nanocrystalline metallic materials prepared by progressive powder technology"– *member of the research team*.

Training and Lecturing

PhD. supervisor:

2021-current	Mgr. František Mihok
2021-current	Mgr. Dóra Zalka
2020-current	Ing. Dávid Csík
2020-current	Ing. Wanda Miženková
2019-current	Ing. Dagmara Varcholová
2019-current	Mgr. Michal Varga
2017-current	RNDr. Miloš Fejerčák
2016-2020	Mgr. Katarína Šuľová, PhD.
2016-2020	RNDr. Michaela Šúliková, PhD.
2015-2019	RNDr. Yurii Katuna, PhD.
2015-2019	RNDr. Maksym Lisnichuk
2012-2016	Ing. Dušan Balga, PhD.
2011-2015	Ing. Martin Ďurišin, PhD.
2008-2011	Mgr. Ing. Pawel Rokici, PhD.
2008-2011	Ing. Zdeněk Spotz, PhD.

MSc. consultant / PhD. consultant:

2021-current	Ing. Gabriela Hricková
2007-2011	RNDr. Štefan Michalik, PhD.
2007-2011	RNDr. Ing. Vladimír Kolesár, PhD.

Lecturer:

2016-current	Methods of structural analysis, UPJŠ
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Author of university textbooks:

2020	Praktické cvičenia z röntgenovej difraktometrie
2022	Praktické cvičenia z röntgenovej difraktometrie II

Publications

- [1] M. Varga, L. Galdun, B. Kunca, V. Vega, J. García, V.M. Prida, E.D. Barriga-Castro, C. Luna, P. Diko, [K. Saksli](#), and R. Varga. Forc and tforc analysis of electrodeposited magnetic shape memory nanowires array. *Journal of Alloys and Compounds*, 897, 2022. cited By 0.
- [2] L. Balejčíková, [K. Saksli](#), J. Kováč, A. Martel, V.M. Garamus, M.V. Avdeev, V.I. Petrenko, L. Almásy, and P. Kopčanský. The impact of redox, hydrolysis and dehydration chemistry on the structural and magnetic properties of magnetoferritin prepared in variable thermal conditions. *Molecules*, 26(22), 2021. cited By 0.
- [3] [K. Saksli](#), I. Pethes, P. Jóvári, Z. Molčanová, J. Ďurišin, B. Ballóková, L. Temleitner, Š. Michalik, M. Šulíková, K. Šuľová, M. Fejerčák, D. Varcholová, and R. Motýľ. Atomic structure of the mg66zn30ca4 metallic glass. *Journal of Non-Crystalline Solids*, 558, 2021. cited By 0.
- [4] Š. Michalik, P. Jóvári, [K. Saksli](#), M. Ďurišin, D. Balga, J. Darpentigny, and M. Drakopoulos. Short range order and crystallization of cu–hf metallic glasses. *Journal of Alloys and Compounds*, 853, 2021. cited By 0.
- [5] O. Shylenko, B. Bilanych, V. Bilanych, V. Latyshev, [K. Saksli](#), Z. Molcanova, B. Balloková, J. Durisin, P.M. Lytvyn, A. Feher, V. Rizak, and V. Komanicky. Investigation of structural changes in asxse100-x amorphous thin films after electron beam irradiation with xafs, xanes and kelvin force microscopy. *Applied Surface Science*, 530, 2020. cited By 0.
- [6] V. Vozda, T. Burian, V. Hájková, L. Juha, H. Enkisch, B. Faatz, M. Hermann, I. Jacyna, M. Jurek, B. Keitel, D. Klinger, R. Loch, E. Louis, I.A. Makhotkin, E. Plönjes, [K. Saksli](#), F. Siewert, R. Sobierajski, S. Strobel, K. Tiedtke, S. Toleikis, G.D.E. Vries, Z. Zelinger, and J. Chalupský. Characterization of megahertz x-ray laser beams by multishot desorption imprints in pmma. *Optics Express*, 28(18):25664–25681, 2020. cited By 3.
- [7] V. Koval, Y. Shi, I. Skorvanek, G. Viola, R. Bures, [K. Saksli](#), P. Roupčova, M. Zhang, C. Jia, and H. Yan. Cobalt-induced structural modulation in multiferroic aurivillius-phase oxides. *Journal of Materials Chemistry C*, 8(25):8466–8483, 2020. cited By 6.
- [8] M. Šulíková, Z. Molčanová, B. Ballóková, J. Ďurišin, S. Martinková, D. Varcholová, Š. Michalik, R. Tang-Kong, L. Ward, A. Mehta, K. Šuľová, M. Fejerčák, A. Lachová, R. Džunda, and [K. Saksli](#). Development of new mg-zn-sr alloys for medical purpose. *International Journal of Nanotechnology*, 17(7-10):573–582, 2020. cited By 0.
- [9] M. Lisnichuk, Yu. Katuna, [K. Saksli](#), M. Fejerčák, M. Šulíková, Š. Michalik, E. Čižmár, A. Kliuikov, V. Girman, S. Vorobiov, Z. Molčanová, B. Balloková, and P. Sovák. Magnetic characterization and thermal stability of gd50co48fe2 metallic glass. *Acta Physica Polonica A*, 137(5):914–917, 2020. cited By 0.
- [10] [K. Saksli](#), Z. Molčanová, J. Ďurišin, P. Jóvári, Š. Michalik, L. Temleitner, B. Ballóková, V. Girman, Y. Katuna, M. Šulíková, K. Šuľová, M. Fejerčák, M. Lisnichuk, A. Lachová, and L. Kapuscinský. Atomic structure of ca–mg biodegradable metallic glass. *Journal of Alloys and Compounds*, 801:651–657, 2019. cited By 0.
- [11] A. Pietrikova, T. Girasek, L. Livovsky, J. Durisin, and [K. Saksli](#). Joints realized by sintering of pressureless ag paste. *Circuit World*, 45(1):2–8, 2019. cited By 1.
- [12] L. Balejčíková, M. Molcan, J. Kovac, M. Kubovcikova, [K. Saksli](#), Z. Mitroova, M. Timko, and P. Kopcansky. Hyperthermic effect in magnetoferritin aqueous colloidal solution. *Journal of Molecular Liquids*, 283:39–44, 2019. cited By 8.
- [13] Z. Molčanová, B. Balloková, J. Ďurišin, K. Šuľová, M. Šulíková, A. Lachová, M. Lisnichuk, M. Fejerčák, S. Martinková, Š. Michalik, and [K. Saksli](#). Development of new biodegradable alloys for medical applications. pages 1204–1209, 2019. cited By 0.
- [14] M. Fejerčák, [K. Saksli](#), Z. Molčanová, K. Šuľová, M. Šulíková, M. Russina, V. Grzimek, and G. Guenther. Investigation of phonon suppression by nanostructuring and doping in thermoelectric half-Heusler materials. pages 1375–1380, 2019. cited By 0.
- [15] A. Pietrikova, T. Girasek, J. Durisin, and [K. Saksli](#). Pressureless silver sintering in power application. 2018. cited By 1.

- [16] I.A. Makhotkin, I. Milov, J. Chalupský, K. Tiedtke, H. Enkisch, G. De Vries, F. Scholze, F. Siewert, J.M. Sturm, K.V. Nikolaev, R.W.E. Van De Kruijs, M.A. Smithers, H.A.G.M. Van Wolferen, E.G. Keim, E. Louis, I. Jacyna, M. Jurek, D. Klinger, J.B. Pelka, L. Juha, V. HÁJKOVÁ, V. Vozda, T. Sburian, K. Saksli, B. Faatz, B. Keitel, E. PlÖNjes, S. Schreiber, S. Toleikis, R. Loch, M. Hermann, S. Strobel, R. Donker, T. Mey, and R. Sobierajski. Damage accumulation in thin ruthenium films induced by repetitive exposure to femtosecond xuv pulses below the single-shot ablation threshold. *Journal of the Optical Society of America B: Optical Physics*, 35(11):2799–2805, 2018. cited By 5.
- [17] D.M. Fronczek, K. Saksli, R. Chulist, S. Michalik, J. Wojewoda-Budka, L. Sniezek, M. Wachowski, J. Torzewski, M. Sulikova, K. Sulova, A. Lachova, M. Fejercak, D. Daisenberger, Z. Szulc, and Z. Kania. Residual stresses distribution, correlated with bending tests, within explosively welded ti gr. 2/a1050 bimetals. *Materials Characterization*, 144:461–468, 2018. cited By 8.
- [18] D.M. Fronczek, A. Wierzbicka-Miernik, K. Saksli, K. Miernik, R. Chulist, D. Kalita, Z. Szulc, and J. Wojewoda-Budka. The intermetallics growth at the interface of explosively welded a1050/ti gr. 2/a1050 clads in relation to the explosive material. *Archives of Civil and Mechanical Engineering*, 18(4):1679–1685, 2018. cited By 6.
- [19] I. Milov, I.A. Makhotkin, R. Sobierajski, N. Medvedev, V. Lipp, J. Chalupský, J.M. Sturm, K. Tiedtke, G. de Vries, M. Störmer, F. Siewert, R. van de Kruijs, E. Louis, I. Jacyna, M. Jurek, L. Juha, V. HÁJKOVÁ, V. Vozda, T. Burian, K. Saksli, B. Faatz, B. Keitel, E. Plönjes, S. Schreiber, S. Toleikis, R. Loch, M. Hermann, S. Strobel, H.-K. Nienhuys, G. Gwalt, T. Mey, H. Enkisch, and F. Bijkerk. Mechanism of single-shot damage of ru thin films irradiated by femtosecond extreme uv free-electron laser. *Optics Express*, 26(15):19665–19685, 2018. cited By 14.
- [20] I.A. Makhotkin, R. Sobierajski, J. Chalupský, K. Tiedtke, G. De Vries, M. Störmer, F. Scholze, F. Siewert, R.W.E. Van De Kruijs, I. Milov, E. Louis, I. Jacyna, M. Jurek, D. Klinger, L. Nittler, Y. Syryanyy, L. Juha, V. HÁJKOVÁ, V. Vozda, T. Burian, K. Saksli, B. Faatz, B. Keitel, E. Plönjes, S. Schreiber, S. Toleikis, R. Loch, M. Hermann, S. Strobel, H.-K. Nienhuys, G. Gwalt, T. Mey, and H. Enkisch. Experimental study of euv mirror radiation damage resistance under long-term free-electron laser exposures below the single-shot damage threshold. *Journal of Synchrotron Radiation*, 25(1):77–84, 2018. cited By 16.
- [21] N. Jasminská, T. Brestoviè, M. Lázár, K. Saksli, K. Šulova, M. Čarnogurská, and L. Bednárová. Determining the material and physical properties of alloy la0.85ce0.15ni5 used in hydrogen storage. *Strength of Materials*, 49(4):514–520, 2017. cited By 0.
- [22] M. Obaida, L. Galdun, T. Ryba, V. Komanicky, K. Saksli, M. Durisin, J. Kovac, V. Haskova, P. Szabo, Z. Vargova, and R. Varga. Spin polarization in cu2mnsn heusler alloy produced by melt-spinning. *Intermetallics*, 85:139–143, 2017. cited By 7.
- [23] Yu. Katuna, M. Lisnichuk, K. Saksli, V. Girman, J. Gamcová, D. Balga, M. Durišin, J. Kováč, and P. Sovák. The structural characterization of ni-ti-zr metallic glass. *Acta Physica Polonica A*, 131(4):750–752, 2017. cited By 1.
- [24] J. Mino, M. Ipatov, J. Gamcova, K. Saksli, M. Durisin, V. Zhukova, Z. Vargova, A. Zhukov, and R. Varga. Magnetic characterization of melt-spun co-ni-ga ferromagnetic superelastic alloy. *Acta Physica Polonica A*, 131(4):1075–1077, 2017. cited By 1.
- [25] P. Kanuch, T. Ryba, J. Gamcová, M. Kanuchova, M. Durisin, K. Saksli, Z. Vargova, and R. Varga. Coexistence of ferromagnetism and superconductivity in rapidly quenched ni2nbsn heusler alloy. *Acta Physica Polonica A*, 131(4):1057–1059, 2017. cited By 2.
- [26] E. Mazancová, K. Saksli, and P. Kučera. Prediction of formed phases in two high entropy systems. volume 2017-January, pages 918–923, 2017. cited By 0.
- [27] K. Saksli, J. Ďurišin, D. Balga, O. Milkovič, T. Brestovič, N. Jasminská, M. Ďurišin, V. Girman, J. Balko, Y. Katuna, M. Šulíková, K. Šuřová, M. Fejercák, J. Boldi, and F. Bertram. Devitrification and hydrogen storage capacity of the eutectic ca72mg28 metallic glass. *Journal of Alloys and Compounds*, 725:916–922, 2017. cited By 2.

- [28] V. Koval, I. Skorvanek, J. Durisin, G. Viola, A. Kovalcikova, P. Svec, [K. Saks](#), and H. Yan. Terbium-induced phase transitions and weak ferromagnetism in multiferroic bismuth ferrite ceramics. *Journal of Materials Chemistry C*, 5(10):2669–2685, 2017. cited By 21.
- [29] M. Durisin, A. Pietrikova, J. Durisin, and [K. Saks](#). Structure and thermal behavior of lead-free solders prepared by rapid solidification of their melt. *Soldering and Surface Mount Technology*, 29(1):49–53, 2017. cited By 4.
- [30] A. Pietrikova, T. Girasek, J. Durisin, L. Livovsky, [K. Saks](#), and M. Durisin. Study of die attachment on dbc substrate. 2016. cited By 0.
- [31] R. Sobierajski, I. Jacyna, P. Dłuzewski, M.T. Klepka, D. Klinger, J.B. Peřka, T. Burian, V. Hájková, L. Juha, [K. Saks](#), V. Vozda, I. Makhotkin, E. Louis, B. Faatz, K. Tiedtke, S. Toleikis, H. Enkisch, M. Hermann, S. Strobel, R.A. Loch, and J. Chalupsky. Role of heat accumulation in the multi-shot damage of silicon irradiated with femtosecond xuv pulses at a 1 mhz repetition rate. *Optics Express*, 24(14):15468–15477, 2016. cited By 9.
- [32] C. Siemers, F. Brunke, [K. Saks](#), J. Kiese, M. Kohnke, F. Haase, M. Schlemminger, P. Eschenbacher, J. Fürste, D. Wolter, and H. Sibum. Development of advanced titanium alloys for aerospace, medical and automotive applications. volume 2016–September, 2016. cited By 2.
- [33] E. Mazancová, P. Kučera, [K. Saks](#), M. Ďurišin, D. Balga, and J. Szabo. Analysis of chosen weld properties of explosively bonded stainless steel with titanium. pages 783–788, 2016. cited By 0.
- [34] Z. Dufalová, E. Mazancová, [K. Saks](#), D. Ostroushko, M. Ďurišin, D. Balga, J. Szabo, and P. Kučera. Selected properties of two high entropy alloys. pages 700–705, 2016. cited By 1.
- [35] [K. Saks](#), Z. Szulc, M. Gloc, O. Milkovič, J. Ďurišin, Ł. Ciupiński, A. Arnbjörnsson, D. Ostroushko, E. Mazancová, and F. Bertram. Evaluation of residual strains and stresses using two-dimensional x-ray diffraction. pages 29–34, 2016. cited By 3.
- [36] D. Balga, M. Ďurišin, P. Zubko, O. Milkovič, J. Gamcová, V. Girman, and [K. Saks](#). Critical casting thickness of cu60zr30ti10 at. investigated by synchrotron radiation. pages 1301–1306, 2016. cited By 0.
- [37] Š. Michalik, J. Ďurišin, D. Balga, [K. Saks](#), M. Ďurišin, and M. Drakopoulos. In situ hexrd study of a ca61al39metallic glass. *Journal of Alloys and Compounds*, 687:188–196, 2016. cited By 10.
- [38] K. Giewekemeyer, C. Hackenberg, A. Aquila, R.N. Wilke, M.R. Groves, R. Jordanova, V.S. Lamzin, G. Borchers, [K. Saks](#), A.V. Zozulya, M. Sprung, and A.P. Mancuso. Tomography of a cryo-immobilized yeast cell using ptychographic coherent x-ray diffractive imaging. *Biophysical Journal*, 109(9):1986–1995, 2015. cited By 9.
- [39] [K. Saks](#), D. Ostroushko, E. Mazancová, Z. Szulc, O. Milkovič, M. Ďurišin, D. Balga, J. Ďurišin, U. Rütt, and O. Gutowski. Local structure of explosively welded titanium–stainless steel bimetal. *International Journal of Materials Research*, 106(6):621–627, 2015. cited By 6.
- [40] B.E. Tegner, L. Zhu, C. Siemers, [K. Saks](#), and G.J. Ackland. High temperature oxidation resistance in titanium–niobium alloys. *Journal of Alloys and Compounds*, 643:100–105, 2015. cited By 18.
- [41] E. Mazancová, [K. Saks](#), D. Ostroushko, and P. Kučera. Hydrogen susceptibility of explosively welded anti-corrosion steel and titanium of commercial purity. pages 779–784, 2015. cited By 0.
- [42] D. Ostroushko, [K. Saks](#), D. Balga, J. Szabo, M. Durisin, O. Milkovič, and P. Zubko. Microstructures and base mechanical properties of cr1-xcuxmnfeni high entropy alloys. pages 523–528, 2015. cited By 1.
- [43] D. Balga, [K. Saks](#), M. Ažurišin, J. Szaba, D. Ostroushko, O. Milkovič, and P. Zubko. Thermal stability of cu60zr30ti10 bulk metallic glass. pages 1271–1276, 2015. cited By 0.
- [44] [K. Saks](#), D. Ostroushko, E. Mazancová, Z. Szulc, O. Milkovič, M. Ažurišin, D. Balga, and J. Ažurišin. Structure of bimetals investigated by synchrotron radiation. pages 459–464, 2015. cited By 0.
- [45] J. Szaba, J. Ažurišin, [K. Saks](#), D. Balga, and D. Ostroushko. Thermal structure stability of cu–mgo nano-composites. pages 1181–1185, 2015. cited By 0.

- [46] J. Mino, V. Komanicky, M. Durisin, [K. Saksli](#), J. Kovac, and R. Varga. Structural and magnetic characterization of fe-mn-al-ni pseudo-heusler alloy. *IEEE Transactions on Magnetics*, 51(1), 2015. cited By 9.
- [47] D. Balga, D. Ostroushko, [K. Saksli](#), E. Mazancová, and O. Milkovič. Structure and mechanical properties of explosive welded mg/al bimetal. *Archives of Metallurgy and Materials*, 59(4):1593–1597, 2014. cited By 6.
- [48] D. Ostroushko, E. Mazancová, [K. Saksli](#), and O. Milkovič. Phase analysis of explosive welded ti-cr/ni steel in as-received state and after heat treatment using synchrotron. *Archives of Metallurgy and Materials*, 59(4):1611–1614, 2014. cited By 1.
- [49] E. Mazancová, D. Ostroushko, [K. Saksli](#), and A. Niesłony. Joint hydrogen susceptibility of 304 ss welded with titanium. *Archives of Metallurgy and Materials*, 59(4):1605–1610, 2014. cited By 5.
- [50] J. Ďurišin, D. Balga, [K. Saksli](#), and A. Pietriková. Atomic structure of cu-zr-ti metallic glasses subjected to high temperature annealing. *Journal of Alloys and Compounds*, 608:241–246, 2014. cited By 6.
- [51] L. Pikna, O. Milkovič, [K. Saksli](#), M. Heželová, M. Smrčová, P. Puliš, Š. Michalik, and J. Gamcová. The structure of nano-palladium deposited on carbon-based supports. *Journal of Solid State Chemistry*, 212:197–204, 2014. cited By 12.
- [52] D. Ostroushko, E. Mazancová, [K. Saksli](#), and O. Milkovič. Mechanical properties and phase analysis explosively welded ti-cr/ni steel in as-received state and after heat treatment. pages 569–574, 2014. cited By 0.
- [53] D. Ostroushko, E. Mazancová, [K. Saksli](#), and R. Halgaš. Mechanical and phase analysis of bonding area explosively welded ti-cr/ni steel in as-received state and after heat treatment using synchrotron (bw-5). *Materials Science Forum*, 782:155–160, 2014. cited By 0.
- [54] O. Milkovič, [K. Saksli](#), M. Hagarová, Š. Michalik, and J. Gamcová. Structure characterisation of electrodeposited ni-co alloy. *Materials Science Forum*, 782:603–606, 2014. cited By 1.
- [55] J. Gaudin, N. Medvedev, J. Chalupský, T. Burian, S. Dastjani-Farahani, V. Hájková, M. Harmand, H.O. Jeschke, L. Juha, M. Jurek, D. Klinger, J. Krzywinski, R.A. Loch, S. Moeller, M. Nagasono, C. Ozkan, [K. Saksli](#), H. Sinn, R. Sobierajski, P. Sovák, S. Toleikis, K. Tiedtke, M. Toufarová, T. Tschentscher, V. Vorlíček, L. Vyšín, H. Wabnitz, and B. Ziaja. Photon energy dependence of graphitization threshold for diamond irradiated with an intense xuv fel pulse. *Physical Review B - Condensed Matter and Materials Physics*, 88(6), 2013. cited By 24.
- [56] I. Kaban, P. Jován, V. Kokotin, O. Shuleshova, B. Beuneu, [K. Saksli](#), N. Mattern, J. Eckert, and A.L. Greer. Local atomic arrangements and their topology in ni-zr and cu-zr glassy and crystalline alloys. *Acta Materialia*, 61(7):2509–2520, 2013. cited By 66.
- [57] D. Ostroushko, E. Mazancová, and [K. Saksli](#). Phase analysis explosive welded ti-cr/ni steel in as-received state and after heat treatment using synchrotron (bw-5). pages 616–619, 2013. cited By 1.
- [58] [K. Saksli](#), P. Rokicki, C. Siemers, D. Ostroushko, J. Bednarčík, and U. Rütt. Local structure of metallic chips examined by x-ray microdiffraction. *Journal of Alloys and Compounds*, 581:579–584, 2013. cited By 3.
- [59] P. Novák, A. Michalcová, I. Marek, M. Mudrová, [K. Saksli](#), J. Bednarčík, P. Zikmund, and D. Vojtěch. On the formation of intermetallics in fe-al system - an in situ xrd study. *Intermetallics*, 32:127–136, 2013. cited By 67.
- [60] Z. Spotz, T. Leemet, P. Rokicki, [K. Saksli](#), V.-T. Kuokkala, and C. Siemers. Microstructure of heat treated ti 15v 3a1 3cr 3sn after deformation at various strain rates. volume 1, pages 454–458, 2012. cited By 1.
- [61] P. Rokicki, K. Nowag, L. Fusova, Z. Spotz, [K. Saksli](#), and C. Siemers. Understanding of the chip formation process of ti15v3a13sn3cr alloy. volume 1, pages 714–718, 2012. cited By 0.
- [62] C. Siemers, F. Brunke, M. Stache, J. Laukart, B. Zahra, J. Rösler, P. Rokieki, and [K. Saksli](#). Advanced titanium alloys containing micrometer-size particles. volume 2, pages 883–887, 2012. cited By 7.
- [63] M. Orolínová, J. Durišin, M. Besterčí, K. Durišinová, R. Kociško, T. Kvackaj, [K. Saksli](#), and Z. Orolínová. Microstructure and texture evolution during ecap of pure aluminium and al-4vol. *Kovove Materialy*, 50(6):433–440, 2012. cited By 2.

- [64] L. Yang, G.Q. Guo, L.Y. Chen, C.L. Huang, T. Ge, D. Chen, P.K. Liaw, [K. Saksli](#), Y. Ren, Q.S. Zeng, B. Laqua, F.G. Chen, and J.Z. Jiang. Atomic-scale mechanisms of the glass-forming ability in metallic glasses. *Physical Review Letters*, 109(10), 2012. cited By 91.
- [65] J. Gaudin, C. Ozkan, J. Chalupský, S. Bajt, T. Burian, L. Vysín, N. Coppola, S.D. Farahani, H.N. Chapman, G. Galasso, V. Hájková, M. Harmand, L. Juha, M. Jurek, R.A. Loch, S. Möller, M. Nagasono, M. Störmer, H. Sinn, [K. Saksli](#), R. Sobierajski, J. Schulz, P. Sovak, S. Toleikis, K. Tiedtke, T. Tschentscher, and J. Krzywinski. Investigating the interaction of x-ray free electron laser radiation with grating structure. *Optics Letters*, 37(15):3033–3035, 2012. cited By 14.
- [66] A. Michalcová, P. Novák, I. Marek, M. Mudrová, [K. Saksli](#), and J. Bednarčík. Description of reaction mechanism during reactive sintering of al-fe-si-ni alloy. pages 1311–1315, 2012. cited By 0.
- [67] P. Novák, A. Michalcová, I. Marek, M. Mudrová, J. Bednarčík, and [K. Saksli](#). Formation of intermetallics during reactive sintering production of fe-al alloys. pages 1295–1298, 2012. cited By 1.
- [68] R. Varga, T. Ryba, [K. Saksli](#), V. Zhukova, J. Gonzalez, and A. Zhukov. Studies of magnetic and structural properties of ni-mn-ga heusler-type microwires. *Journal of Optoelectronics and Advanced Materials*, 14(3-4):257–261, 2012. cited By 2.
- [69] R. Varga, T. Ryba, Z. Vargova, [K. Saksli](#), V. Zhukova, and A. Zhukov. Magnetic and structural properties of ni-mn-ga heusler-type microwires. *Scripta Materialia*, 65(8):703–706, 2011. cited By 57.
- [70] V. Hájková, L. Juha, P. Boháček, T. Burian, J. Chalupský, L. Vyšín, J. Gaudin, P.A. Heimann, S.P. Hau-Riege, M. Jurek, D. Klinger, J. Pelka, R. Sobierajski, J. Krzywinski, M. Messerschmidt, S.P. Moeller, B. Nagler, M. Rowen, W.F. Schlotter, M.L. Swiggers, J.J. Turner, S.M. Vinko, T. Whitcher, J. Wark, M. Matuchová, S. Bajt, H. Chapman, T. Dzelzainis, D. Riley, J. Andreasson, J. Hajdu, B. Iwan, N. Timneanu, [K. Saksli](#), R. Fäustlin, A. Singer, K. Tiedtke, S. Toleikis, I. Vartaniants, and H. Wabnitz. X-ray laser-induced ablation of lead compounds. volume 8077, 2011. cited By 9.
- [71] L. Fusova, P. Rokicki, Z. Spotz, [K. Saksli](#), and C. Siemers. Tool wear mechanisms during machining of alloy 625. *Advanced Materials Research*, 275:204–207, 2011. cited By 2.
- [72] C. Siemers, B. Zahra, D. Ksiezzyk, P. Rokicki, Z. Spotz, L. Fusova, J. Rösler, and [K. Saksli](#). Chip formation and machinability of nickel-base superalloys. *Advanced Materials Research*, 278:460–465, 2011. cited By 10.
- [73] P. Rokicki, Z. Spotz, L. Fusova, [K. Saksli](#), and C. Siemers. Chip formation process description based on hard to machine alloys (ti- β and ni based). *Chemicke Listy*, 105(16 SPEC. ISSUE):s583–s585, 2011. cited By 0.
- [74] Z. Spotz, T. Leemet, P. Rokicki, L. Fusova, [K. Saksli](#), V.-T. Kuokkala, and C. Siemers. Analysis of microstructure of annealed alloy ti-15v-3cr-3sn-3al after deformation. *Chemicke Listy*, 105(16 SPEC. ISSUE):s586–s588, 2011. cited By 0.
- [75] M. Varchola, [K. Saksli](#), J. Durišin, and M. Besterci. Structural analysis of dispersion strengthened al-al 4c 3 material by xrd method. *High Temperature Materials and Processes*, 30(1-2):127–130, 2011. cited By 0.
- [76] C. Siemers, J. Laukart, B. Zahra, J. Rösler, Z. Spotz, and [K. Saksli](#). Development of advanced and free-machining titanium alloys by micrometer-size particle distribution. *Materials Science Forum*, 690:262–265, 2011. cited By 6.
- [77] A. Michalcová, D. Vojtěch, P. Novák, I. Procházka, J. Čížek, J. Drahokoupil, K. Wienerová, [K. Saksli](#), P. Rokicki, and Z. Spotz. Structure of rapidly solidified al-fe-cr-ce alloy. *Key Engineering Materials*, 465:199–202, 2011. cited By 2.
- [78] A. Michalcová, D. Vojtech, P. Novák, [K. Saksli](#), Z. Spotz, P. Rokicki, and C. Siemers. Influence of fe and cr on properties of rapidly solidified al-cr-fe-ce alloy. pages 761–764, 2010. cited By 1.
- [79] P. Rokicki, Z. Spotz, L. Fusova, [K. Saksli](#), C. Siemers, and B. Zahra. Chip formation process of ti-15v-3al-3sn-3cr alloy. pages 844–849, 2010. cited By 3.
- [80] Z. Spotz, T. Leemet, P. Rokicki, L. Fusova, [K. Saksli](#), V.T. Kuokkala, and C. Siemers. Influence of deformation on microstructure of ti-15v-3cr-3sn-3al alloy. pages 838–843, 2010. cited By 3.

- [81] L. Fusova, P. Rokicki, Z. Spotz, [K. Saksli](#), and C. Siemers. Tool wear mechanisms in tools used for high-speed cutting of difficult-to-machine metals. pages 812–817, 2010. cited By 0.
- [82] A.J. Nelson, R.W. Lee, S. Toleikis, S. Bajt, R.R. Fäustlin, H. Chapman, J. Krzywinski, J. Chalupsky, L. Juha, V. Hajkova, B. Nagler, S.M. Vinko, T. Whitcher, J.S. Wark, T. Dzelzainis, D. Riley, [K. Saksli](#), A.R. Khorsand, R. Sobierajski, M. Jurek, J. Andreasson, N. Timneanu, J. Hadju, M. Fajardo, and T. Tschentscher. Achieving microfocus of the 13.5-nm flash beam for exploring matter under extreme conditions. pages 784–788, 2009. cited By 0.
- [83] R.W. Lee, B. Nagler, U. Zastra, R. Fäustlin, S.M. Vinko, T. Whitcher, R. Sobierajski, J. Krzywinski, L. Juha, A.J. Nelson, S. Bajt, K. Budil, R.C. Cauble, T. Bornath, T. Burian, J. Chalupsky, H. Chapman, J. Cihelka, T. Döppner, T. Dzelzainis, S. Düsterer, M. Ajardo, E. Förster, C. Fortmann, S.H. Glenzer, S. Göde, G. Gregori, V. Hajkova, P. Heimann, M. Jurek, F.Y. Khattak, A.R. Khorsand, D. Klinger, M. Kozlova, T. Laarmann, H.-J. Lee, K.-H. Meiwes-Broer, P. Mercere, W.J. Murphy, A. Przystawik, R. Redmer, H. Reinholz, D. Riley, G. Röpke, [K. Saksli](#), R. Thiele, J. Tiggesbäumker, S. Toleikis, T. Tschentscher, I. Uschmann, R.W. Falcone, R. Shepherd, J.B. Hastings, W.E. White, and J.S. Wark. Perspective for high energy density studies on x-ray fels. volume 7451, 2009. cited By 1.
- [84] R.W. Lee, B. Nagler, U. Zastra, R. Fäustlin, S. Vinko, T. Whitcher, R. Sobierajski, J. Krzywinski, L. Juha, A. Nelson, S. Bajt, T. Bornath, T. Burian, J. Chalupsky, H. Chapman, J. Cihelka, T. Döppner, T. Dzelzainis, S. Düsterer, M. Fajardo, E. Förster, C. Fortmann, S.H. Glenzer, S. Göde, G. Gregori, V. Hajkova, P. Heimann, M. Jurek, F. Khattak, A.R. Khorsand, D. Klinger, M. Kozlova, T. Laarmann, H. Lee, K. Meiwes-Broer, P. Mercere, W.J. Murphy, A. Przystawik, R. Redmer, H. Reinholz, D. Riley, G. Röpke, [K. Saksli](#), R. Thiele, J. Tiggesbäumker, S. Toleikis, T. Tschentscher, I. Uschmann, and J.S. Wark. Perspective for high energy density studies using x-ray free electron lasers. 2009. cited By 0.
- [85] A.J. Nelson, S. Toleikis, H. Chapman, S. Bajt, J. Krzywinski, J. Chalupsky, L. Juha, J. Cihelka, V. Hajkova, L. Vysin, T. Burian, M. Kozlova, R.R. Fäustlin, B. Nagler, S.M. Vinko, T. Whitcher, T. Dzelzainis, O. Renner, [K. Saksli](#), A.R. Khorsand, P.A. Heimann, R. Sobierajski, D. Klinger, M. Jurek, J. Pelka, B. Iwan, J. Andreasson, N. Timneanu, M. Fajardo, J.S. Wark, D. Riley, T. Tschentscher, J. Hajdu, and R.W. Lee. Soft x-ray free electron laser microfocus for exploring matter under extreme conditions. *Optics Express*, 17(20):18271–18278, 2009. cited By 42.
- [86] J. Cihelka, L. Juha, J. Chalupský, F.B. Rosmej, O. Renner, [K. Saksli](#), V. Hájková, L. Vyšín, E. Galtier, R. Schott, A.R. Khorsand, D. Riley, T. Dzelzainis, A.J. Nelson, R.W. Lee, P.A. Heimann, B. Nagler, S. Vinko, J. Wark, T. Whitcher, S. Toleikis, T. Tschentscher, R. Fäustlin, H. Wabnitz, S. Bajt, H. Chapman, J. Krzywinski, R. Sobierajski, D. Klinger, M. Jurek, J. Pelka, S. Hau-Riege, R.A. London, J. Kuba, N. Stojanovic, K. Sokolowski-Tinten, A.J. Gleeson, M. Störmer, J. Andreasson, J. Hajdu, B. Iwan, and N. Timneanu. Optical emission spectroscopy of various materials irradiated by soft x-ray free-electron laser. volume 7361, 2009. cited By 5.
- [87] S. Michalik, [K. Saksli](#), P. Sovák, K. Csach, and J.Z. Jiang. Crystallization of zr60fe20cu20 amorphous alloy. *Journal of Alloys and Compounds*, 478(1-2):441–446, 2009. cited By 12.
- [88] M. Oroínová, J. Ďurišín, K. Ďurišínová, M. Besterčí, and [K. Saksli](#). Structural analysis of dispersion strengthened material on aluminium base. *High Temperature Materials and Processes*, 28(1-2):73–82, 2009. cited By 2.
- [89] S. Couet, K. Schlage, [K. Saksli](#), and R. Röhlberger. Morphology of the interfaces between transition metals and their native oxides: Role of interdiffusion processes. *Physical Review B - Condensed Matter and Materials Physics*, 79(8), 2009. cited By 1.
- [90] B. Nagler, U. Zastra, R.R. Fäustlin, S.M. Vinko, T. Whitcher, A.J. Nelson, R. Sobierajski, J. Krzywinski, J. Chalupsky, E. Abreu, S. Bajt, T. Bornath, T. Burian, H. Chapman, J. Cihelka, T. Döppner, S. Düsterer, T. Dzelzainis, M. Fajardo, E. Förster, C. Fortmann, E. Galtier, S.H. Glenzer, S. Göde, G. Gregori, V. Hajkova, P. Heimann, L. Juha, M. Jurek, F.Y. Khattak, A.R. Khorsand, D. Klinger, M. Kozlova, T. Laarmann, H.J. Lee, R.W. Lee, K.-H. Meiwes-Broer, P. Mercere, W.J. Murphy, A. Przystawik, R. Redmer, H. Reinholz, D. Riley, G. Röpke, F. Rosmej, [K. Saksli](#), R. Schott, R. Thiele, J. Tiggesbäumker, S. Toleikis, T. Tschentscher, I. Uschmann, H.J. Vollmer, and J.S. Wark. Turning solid aluminium transparent by intense soft x-ray photoionization. *Nature Physics*, 5(9):693–696, 2009. cited By 216.

- [91] J. Bednarcik, K. Saksli, R. Nicula, S. Roth, and H. Franz. Influence of cryomilling on structure of co-fe-zr-b alloy. *Journal of Non-Crystalline Solids*, 354(47-51):5117–5119, 2008. cited By 4.
- [92] G. Pavlík, P. Sovák, V. Kolesár, K. Saksli, and J. Fúzer. Structure and magnetic properties of fe_{73.5}-x cexcu₁nb₃ si_{13.5} b₉ alloys. *Reviews on Advanced Materials Science*, 18(6):522–526, 2008. cited By 2.
- [93] K. Saksli, D. Vojtěch, and J. Ďurišin. In situ xrd studies on al-ni and al-ni-sr alloys prepared by rapid solidification. *Journal of Alloys and Compounds*, 464(1-2):95–100, 2008. cited By 6.
- [94] S. Couet, K. Schlage, K. Saksli, and R. Röhsberger. How metallic fe controls the composition of its native oxide. *Physical Review Letters*, 101(5), 2008. cited By 19.
- [95] A.B. Abrahamsen, J.-C. Grivel, N.H. Andersen, M. Herrmann, W. Häßler, B. Birajdar, O. Eibl, and K. Saksli. In-situ synchrotron x-ray study of mgb₂ formation when doped by sic. volume 97, 2008. cited By 0.
- [96] J.-C. Grivel, A.B. Abrahamsen, N.H. Andersen, and K. Saksli. Manufacture of (bi,pb)₂sr₂ca₂cu₃o₁₀-based tapes with a composite sheath. volume 97, 2008. cited By 1.
- [97] P. Pouloupoulos, S. Baskoutas, L.F. Kiss, L. Bujdosó, T. Kemény, F. Wilhelm, A. Rogalev, V. Kapaklis, C. Politis, M. Angelakeris, and K. Saksli. Magnetic moments of fe and y in the fe-y glass forming system. *Journal of Non-Crystalline Solids*, 354(2-9):587–591, 2008. cited By 5.
- [98] M. Orolínová, J. Ďurišin, K. Ďurišinová, M. Besterci, and K. Saksli. Structural analyses on alsi₂₆ni₈ rapidly solidified alloys. *High Temperature Materials and Processes*, 27(1):61–72, 2008. cited By 0.
- [99] R. Kanász, J. Bednarcík, K. Saksli, R. Nicula, M. Stir, and C. Lathe. In situ energy dispersive x-ray diffraction analysis of the temperature-pressure stability of co-fe-(ta,w)-b alloys. *Acta Physica Polonica A*, 113(1):79–82, 2008. cited By 1.
- [100] L. Yang, J.Z. Jiang, K. Saksli, and H. Franz. Origin of the pre-peak in zr₇₀cu₂₉pd₁ metallic glass. *Journal of Physics Condensed Matter*, 19(47), 2007. cited By 9.
- [101] L. Yang, S. Yin, X.D. Wang, Q.P. Cao, J.Z. Jiang, K. Saksli, and H. Franz. Atomic structure in zr₇₀ni₃₀ metallic glass. *Journal of Applied Physics*, 102(8), 2007. cited By 36.
- [102] X.D. Wang, L. Yang, J.Z. Jiang, K. Saksli, H. Franz, H.-J. Fecht, Y.G. Liu, and H.S. Xian. Enhancement of plasticity in zr-based bulk metallic glasses. *Journal of Materials Research*, 22(9):2454–2459, 2007. cited By 7.
- [103] X.D. Wang, J. Bednarcik, K. Saksli, H. Franz, Q.P. Cao, and J.Z. Jiang. Tensile behavior of bulk metallic glasses by in situ x-ray diffraction. *Applied Physics Letters*, 91(8), 2007. cited By 45.
- [104] X. Ou, W. Roseker, K. Saksli, H. Franz, L. Gerward, X. Xu, G.Q. Zhang, L.N. Wang, J.F. Liu, and J.Z. Jiang. Microstructure and crystallization in cu₅₀zr₄₅al₅ metallic glass. *Journal of Alloys and Compounds*, 441(1-2):185–188, 2007. cited By 17.
- [105] P. Jován, K. Saksli, N. Pryds, B. Lebech, N.P. Bailey, A. Mellergård, R.G. Delaplane, and H. Franz. Atomic structure of glassy mg₆₀cu₃₀y₁₀ investigated with exafs, x-ray and neutron diffraction, and reverse monte carlo simulations. *Physical Review B - Condensed Matter and Materials Physics*, 76(5), 2007. cited By 31.
- [106] K. Saksli, D. Vojtěch, and H. Franz. Quasicrystal-crystal structural transformation in al-5 wt. *Journal of Materials Science*, 42(17):7198–7201, 2007. cited By 7.
- [107] B. Yang, J. Jiang, Y. Zhuang, K. Saksli, and G. Chen. Crystallization of pd₄₀cu₃₀ni₁₀p₂₀ bulk metallic glass with and without pressure. *Journal of University of Science and Technology Beijing: Mineral Metallurgy Materials (Eng Ed)*, 14(4):356–360, 2007. cited By 3.
- [108] Q.K. Jiang, G.Q. Zhang, L. Yang, X.D. Wang, K. Saksli, H. Franz, R. Wunderlich, H. Fecht, and J.Z. Jiang. La-based bulk metallic glasses with critical diameter up to 30 mm. *Acta Materialia*, 55(13):4409–4418, 2007. cited By 117.

- [109] K. Saksli, J. Bednarčík, R. Nicula, E. Burkel, S. Roth, and H. Franz. The influence of short-time ball-milling on the stability of amorphous coveb alloys. *Journal of Physics Condensed Matter*, 19(17), 2007. cited By 6.
- [110] J. Bednarčík, R. Nicula, K. Saksli, M. Stir, and E. Burkel. Microstructure evolution during thermal processing: Insight from in-situ time-resolved synchrotron radiation experiments. *Materials Science Forum*, 550:607–612, 2007. cited By 0.
- [111] A.B. Abrahamsen, J.-C. Grivel, N.H. Andersen, J. Homeyer, and K. Saksli. Kinetics of mgb₂ formation studied by in-situ synchrotron x-ray powder diffraction. *IEEE Transactions on Applied Superconductivity*, 17(2):2757–2760, 2007. cited By 8.
- [112] L. Medvecký, M. Kmecová, and K. Saksli. Study of pbzr_{0.53}ti_{0.47}o₃ solid solution formation by interaction of perovskite phases. *Journal of the European Ceramic Society*, 27(4):2031–2037, 2007. cited By 8.
- [113] K. Saksli, P. Jóvári, H. Franz, Q.S. Zeng, J.F. Liu, and J.Z. Jiang. Atomic structure of al₈₉la₆ni₅ metallic glass. *Journal of Physics Condensed Matter*, 18(32):7579–7592, 2006. cited By 49.
- [114] J. Bednarčík, E. Burkel, K. Saksli, P. Kollár, and S. Roth. Mechanically induced crystallization of an amorphous covezrb alloy. *Journal of Applied Physics*, 100(1), 2006. cited By 22.
- [115] D. Vojtěch, K. Saksli, J. Verner, and B. Bártová. Structural evolution of rapidly solidified al-mn and al-mn-sr alloys. *Materials Science and Engineering A*, 428(1-2):188–195, 2006. cited By 22.
- [116] L. Yang, J.H. Xia, Q. Wang, C. Dong, L.Y. Chen, X. Ou, J.F. Liu, J.Z. Jiang, K. Klementiev, K. Saksli, H. Franz, J.R. Schneider, and L. Gerward. Design of cu₈ zr₅-based bulk metallic glasses. *Applied Physics Letters*, 88(24), 2006. cited By 70.
- [117] D. Vojtěch, J. Verner, B. Bártová, and K. Saksli. Thermal stability of rapidly solidified alloys of aluminium with transition metals. *Materials Science Forum*, 519-521(PART 1):389–394, 2006. cited By 4.
- [118] D. Vojtech, J. Verner, B. Bártová, and K. Saksli. Rapid solids hold hope for strong aluminium alloys. *Metal Powder Report*, 61(6):32–35, 2006. cited By 5.
- [119] Y. Wang, Y.Z. Fang, T. Kikegawa, C. Lathe, K. Saksli, H. Franz, J.R. Schneider, L. Gerward, F.M. Wu, J.F. Liu, and J.Z. Jiang. Erratum: Amorphouslike diffraction pattern in solid metallic titanium (physical review letters (2005) 95 (155501) doi: 10.1103/physrevlett.95.155501). *Physical Review Letters*, 95(16), 2005. cited By 0.
- [120] Y. Wang, Y.Z. Fang, T. Kikegawa, C. Lathe, K. Saksli, H. Franz, J.R. Schneider, L. Gerward, F.M. Wu, J.F. Liu, and J.Z. Jiang. Amorphouslike diffraction pattern in solid metallic titanium. *Physical Review Letters*, 95(15), 2005. cited By 15.
- [121] K. Saksli, P. Jóvári, H. Franz, and J.Z. Jiang. Atomic structure of al₈₈y₇fe₅ metallic glass. *Journal of Applied Physics*, 97(11), 2005. cited By 52.
- [122] K. Saksli, J. Ďurišín, M. Orolínová, K. Ďurišínová, and P. Lazár. Structural study on al-26 mass *Journal of Materials Science*, 40(8):1975–1978, 2005. cited By 4.
- [123] D. Vojtěch, J. Verner, B. Bártová, and K. Saksli. Microstructure and properties of rapidly solidified al-tms alloys. volume 2, pages 213–218, 2005. cited By 0.
- [124] J. Ďurišín, K. Ďurišínová, M. Oralínová, and K. Saksli. Preparation and microstructure evolution of nanocomposite powder copper. *International Journal of Materials and Product Technology*, 23(1-2):42–68, 2005. cited By 4.
- [125] J. Ďurišín, K. Ďurišínová, M. Orolínová, and K. Saksli. Effect of the mgo particles on the nanocrystalline copper grain stability. *Materials Letters*, 58(29):3796–3801, 2004. cited By 25.
- [126] J.Z. Jiang and K. Saksli. Structural stability of pd₄₀cu₃₀ni₁₀p₂₀ metallic glass in supercooled liquid region. *Materials Science and Engineering A*, 375-377(1-2 SPEC. ISS.):733–737, 2004. cited By 6.
- [127] L. Yang, Y. Chao, K. Saksli, H. Franz, L.L. Sun, W.K. Wang, N.P. Jiang, X.J. Wu, and J.Z. Jiang. Short-range structure of zr₄ti₁₄cu_{12.5}ni₁₀be_{22.5} glass prepared by shock wave. *Applied Physics Letters*, 84(24):4998–5000, 2004. cited By 20.

- [128] H. Bruncková, L. Medvecký, J. Briančin, and K. Saksli. Influence of hydrolysis conditions of the acetate sol-gel process on the stoichiometry of pzt powders. *Ceramics International*, 30(3):453–460, 2004. cited By 32.
- [129] K. Saksli, H. Franz, P. Jóvári, K. Klementiev, E. Welter, A. Ehnes, J. Saida, A. Inoue, and J.Z. Jiang. Evidence of icosahedral short-range order in zr70cu30 and zr70cu29pd1 metallic glasses. *Applied Physics Letters*, 83(19):3924–3926, 2003. cited By 108.
- [130] J.Z. Jiang, H. Kato, T. Ohsuna, J. Saida, A. Inoue, K. Saksli, H. Franz, and K. Ståhl. Origin of nondetectable x-ray diffraction peaks in nanocomposite cutizr alloys. *Applied Physics Letters*, 83(16):3299–3301, 2003. cited By 40.
- [131] V. Koval, C. Alemany, J. Briančan, H. Bruncková, and K. Saksli. Effect of pmn modification on structure and electrical response of xpmn- (1- x)pzt ceramic systems. *Journal of the European Ceramic Society*, 23(7):1157–1166, 2003. cited By 81.
- [132] J.Z. Jiang, B. Yang, K. Saksli, H. Franz, and N. Pryds. Crystallization of cu60ti20zr20 metallic glass with and without pressure. *Journal of Materials Research*, 18(4):895–898, 2003. cited By 38.
- [133] J.Z. Jiang, K. Saksli, N. Nishiyama, and A. Inoue. Crystallization in pd40ni40p20 glass. *Journal of Applied Physics*, 92(7):3651–3656, 2002. cited By 32.
- [134] J.Z. Jiang, K. Saksli, J. Saida, A. Inoue, H. Franz, K. Messel, and C. Lathe. Evidence of polymorphous amorphous-to-quasicrystalline phase transformation in zr66.7pd33.3 metallic glass. *Applied Physics Letters*, 80(5):781–783, 2002. cited By 25.
- [135] J.Z. Jiang, K. Saksli, H. Rasmussen, T. Watanuki, N. Ishimatsu, and O. Shimomara. High-pressure x-ray diffraction of icosahedral zr-al-ni-cu-ag quasicrystals. *Applied Physics Letters*, 79(8):1112–1114, 2001. cited By 15.
- [136] K. Saksli, L. Medvecký, and J. Ďurišin. Preparation of nanocrystalline cu-xmgo mixture. *Journal of Materials Science*, 36(15):3675–3678, 2001. cited By 6.