

## Profesijný životopis

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<b>Vysokoškolské vzdelanie a ďalší akademický rast</b>	<b>2002-2005 Dr. - Doctor in Materials Science</b> Laboratory for Iron and Steelmaking, Ghent University, Ghent, Belgicko <b>1995-2000 Ing. - Inžinier v odbore materiálové inžinierstvo</b> Materiálovotechnologická fakulta (MtF) STU v Trnave, SR
<b>Ďalšie vzdelávanie</b>	<b>2016-2017 Stage 1 – 20 dňový intenzívny kurz pre vedúce pozície</b> voestalpine AG, Rakúsko <b>2008-2009 Prestage – 2 ročný kurz pre projektových manažérov</b> voestalpine AG, Rakúsko
<b>Priebeh zamestnaní</b>	<b>2017 – doteraz, Key Researcher</b> Výskum a vývoj zastudena valcovaných plechov, Business Unit Coil, voestalpine Steel Division GmbH, Linz, Rakúsko <b>2015- doteraz, Externý prednášajúci</b> University of Applied Sciences of Upper Austria, FH Wels, Rakúsko <b>2014 – doteraz, Zástupca vedúceho oddelenia výskumu a vývoja za studena valcovaných plechov</b> Výskum a vývoj zastudena valcovaných plechov, Business Unit Coil, voestalpine Steel Division GmbH, Linz, Rakúsko <b>2009-2017, Projektový manažér</b> Výskum a vývoj zastudena valcovaných plechov, Business Unit Coil, voestalpine Steel Division GmbH, Linz, Rakúsko <b>2005-2009, Výskumný inžinier</b> Výskum a vývoj zastudena valcovaných plechov, Business Unit Coil, voestalpine Steel Division GmbH, Linz, Rakúsko <b>2002-2005, Vedúci oddelenia vákuovej metalurgie a výskumný asistent</b> Laboratory for Iron and Steelmaking, Ghent University, Ghent, Belgicko <b>2000-2002, Interný doktorand</b> Katedra materiálového inžinierstva, MtF STU v Trnave, SR
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	<p><b>University of Applied Sciences of Upper Austria, FH Wels:</b> Modern materials and their processing/Selected sections of materials science, 2015 - trvá</p>
<b>Odborné zameranie</b>	Materiálové inžinierstvo
<b>Publikačná činnosť podľa kategórií evidencie</b>	<p><b>AAA Vedecké monografie vydané v zahraničných vydavateľstvách</b> <b>Počet záznamov: 1</b></p> <p><b>AAA001</b> D. Krizan: "Structure-properties relationship in 1 GPa micro-alloyed TRIP steel", PhD thesis, Ghent University, Belgium, Ed. Prof. B.C. DeCooman, 2005, p. 166, ISBN 90-8578-039-X.</p> <p><b>ADC Vedecké práce v zahraničných karentovaných časopisoch</b> <b>Počet záznamov: 16</b></p> <p><b>ADC001</b> D. Krizan, T. Waterschoot, A.I. Koruk and B.C. De Cooman: "Bake hardening of laser welded dual phase steel", Steel Res. Int., Vol. 74, 2003, pp. 639-645.</p> <p><b>ADC002</b> D. Krizan, L. Duprez and B.C. De Cooman: "Properties of laser welded SAF 2205 duplex stainless steel sheet", Steel Res. Int., Vol. 75, 2004, pp.829-835.</p> <p><b>ADC003</b> B.C. De Cooman, L. Barbé, J. Mahieu, D. Krizan, L. Samek and M. De Meyer: "The mechanical properties of low alloy intercritically annealed cold rolled TRIP sheet steel containing retained austenite", Canadian Metall. Quart., vol. 43 (12), 2004, pp. 13-24.</p> <p><b>ADC004</b> M. Zhang, L. Li, R.Y. Fu, D. Krizan and B.C. De Cooman: "Continuous cooling transformation diagrams and properties of micro-alloyed TRIP steels", Mater. Sci. and Eng. A., Vol. 438-440, 2006, pp. 296-298.</p> <p><b>ADC005</b> D. Krizan and B.C. De Cooman: "Analysis of the strain-induced martensitic transformation of retained austenite in cold rolled micro-alloyed TRIP steel", Steel Res. Int., Vol. 79, 2008, pp. 513-522.</p> <p><b>ADC006</b> J. Bouquerel, K. Verbeken, D. Krizan, L. Barbe, Y. Houbaert and P. Verleysen: "Modelling of the static stress-strain behaviour of phosphorus alloyed and titanium micro-alloyed TRIP steels", Steel Res. Int., Vol. 79, 2008, No.10, pp. 2-10.</p> <p><b>ADC007</b> K. Hausmann, D. Krizan, K. Spiradek-Hahn, A. Pichler and E. Werner: „The influence of Nb on the transformation behavior and the mechanical properties</p>

of TRIP-assisted bainitic-ferritic sheet steels”, Mater. Sci. Eng. A, Vol. 588, 2013, pp.142-150.

**ADC008** D. Krizan and B.C. De Cooman: “Mechanical properties of TRIP steel micro-alloyed with Ti”, Metall. and Mater. Trans. A, Vol.45, No. 8, 2014, pp.3481-3492.

**ADC009** D. Krizan, K. Spiradek-Hahn and A. Pichler: “Relationship between microstructure and mechanical properties in Nb-V microalloyed TRIP steel”, Mater. Sci. and Technol., Vol.31, No. 6, 2015, pp.661-668.

**ADC010** K. Steineder, R. Schneider, D. Krizan, C. Beal and C. Sommitsch: “Comparative investigation on annealing temperature and cooling rate of two medium-Mn steels”, Steel Res. Int., Vol.85, No.10, 2015, pp.1179-1186

**ADC011** K. Steineder, M. Dikovits, C. Beal, C. Sommitsch, D. Krizan, R. Schneider: „Hot deformation behavior of a 3rd generation advanced high strength steel with a medium Mn content“, Key Engineering Materials, Vol.651-653, 2015, pp.120-125.

**ADC012** S. Kang, E. De Moor, J.G. Speer, D. Krizan and D.K. Matlock: “Tensile properties predictions in intercritically annealed Al-added 4.5 wt pct Mn steels”, Materials and Design, Vol. 97, 2016, pp.138-146.

**ADC013** P.I. Christodoulou, A.T. Kermanidis and D. Krizan: “Fatigue behavior and retained austenite transformation of Al-containing TRIP steels”, Int. J. Fatigue, Vol. 91, 2016, pp. 220-231.

**ADC014** K. Steineder, D. Krizan, R. Schneider, C. Beal and C. Sommitsch: „The effects of intercritical annealing temperature and initial microstructure on the stability of retained austenite in a 0.1C-6Mn steel“, Mater. Sci. Forum, Vol. 879, November 2016, pp.1847-1852.

**ADC015** K. Steineder, D. Krizan, R. Schneider, C. Beal and C. Sommitsch: “On the microstructural characteristics influencing the yielding behavior of ultra-fine grained medium-Mn steels“, Acta Mater., Vol.139, 2017, pp. 39-50.

**ADC016** K. Steineder, D. Krizan, R. Schneider, C. Beal and C. Sommitsch: “On the micro-scale damage behavior of a 0.1C6Mn medium-Mn steel”, submitted to Steel Res. Int., published online.

**ADD Vedecké práce v domácich karentovaných časopisoch**

**Počet záznamov: 1**

**ADD001** D. Krizan: "Strukturna stabilita dvojfazovych nehrdzavejucich oceli", *Metallic Materials*, Vol. 39, 2001, pp. 337-348.

**ADE Vedecké práce v zahraničných nekarentovaných časopisoch**

**Počet záznamov: 1**

**ADE001** K. Steineder, R. Schneider, D. Krizan, C. Beal and C. Sommitsch: "Investigation on the microstructural evolution in 0.1%C5%Mn steel after intercritical annealing", *HTM Journal of Heat Treatment and Materials*, Vol.70, No.1, 2015, pp.19-25.

**ADF Vedecké práce v domácich nekarentovaných časopisoch**

**Počet záznamov: 4**

**ADF001** D. Krizan: "Structural stability of duplex stainless steels", *Acta Metallurgica Slovaca*, Vol. 7, 2001, pp. 131-134.

**ADF002** D. Krizan: "Relationship between microstructure and mechanical properties of cold rolled intercritically annealed TRIP steel micro-alloyed with titanium", *Bulletins of Slovak Academy of Sciences*, June 2011, pp. 1-9.

**ADF003** D. Krizan: "V konstrukcii aut stale dominuje ocel", *Quark*, June 2012, pp.32-33.

**ADF004** D. Krizan: "Nova ocel - lahsie a bezpecnejsie auta", *Quark*, July 2015, pp.28-29.

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

**Počet záznamov: 27**

**AFC001** D. Krizan, B.C. De Cooman and A.I. Koruk: "Bake hardening of laser welded dual phase steel", 3rd FEA PhD Symposium, December 11 2002, Ghent University, Ghent, Belgium, pp.1-2.

**AFC002** D. Krizan, L. Barbé, J. Antonissen and B.C. De Cooman: "The influence of micro-alloying elements on the mechanical properties of cold rolled C-Mn-Al-Si-P TRIP steels", *Int. Symposium on Transformation and Deformation Mechanisms in Advanced High-Strength Steels*, Ed.: M. Militzer, W.J. Poole and E. Essadiqi,

August 24-27, 2003, Vancouver, British Columbia, Canada, pp. 395-409.

**AFC003** B.C. De Cooman, L. Barbé, J. Mahieu, D. Krizan, L. Samek and M. De Meyer: "The mechanical properties of low alloy intercritically annealed cold rolled TRIP sheet steel containing retained austenite", Int. Symposium on Transformation and Deformation Mechanisms in Advanced High-strength Steels, Ed.: M. Militzer, W.J. Poole and E. Essadiqi, August 24-27, 2003, Vancouver, British Columbia, Canada, pp. 5.

**AFC004** D. Krizan, J. Antonissen, L. Barbé and B.C. De Cooman: "Properties of austenite in micro-alloyed C-Mn-Al-Si-P TRIP steels", 45th Mechanical Working and Steel Processing Conference Proceedings, Ed. Margaret A. Baker, Volume XLI, ISS, 9-12 Nov, 2003, Chicago, IL, USA, pp. 437-448.

**AFC005** D. Krizan and B.C. De Cooman: "The influence of micro-alloying elements on the mechanical properties of cold rolled C-Mn-Al-Si-P TRIP steels", 4th FEA PhD Symposium, December 2003, Ghent University, Ghent, Belgium, pp.1-2.

**AFC006** D. Krizan, J. Antonissen and B.C. De Cooman: "Retained austenite stability in the cold rolled CMnAlSiP micro-alloyed TRIP steels", Ed. Margaret A. Baker, AIST, ISS, 6-9 June, 2004, Golden, CO, USA, pp. 205-216.

**AFC007** D. Krizan, J. Antonissen and B.C. De Cooman: "Retained austenite stability in the cold rolled CMnAlSiP micro-alloyed TRIP steels", 5th FEA PhD Symposium, December 1 2004, Ghent University, Ghent, Belgium, pp. 1-2.

**AFC008** B.C. De Cooman and D. Krizan: "Nb micro-alloyed CMnAlSiP TRIP steels", HSLA 2005 ISUG Joint Conference, Nov. 2005, Sanya, P.R. China, pp.1-6.

**AFC009** M. Zhang, R.Y. Fu, D. Cao, Z. Wan, M. Wu, D. Krizan, L. Lin and B.C. De Cooman : "Development of the micro-alloyed TRIP steels and properties of their laser welded blanks", HSLA 2005 ISUG Joint Conference, Nov. 2005, Sanya, P.R. China, pp.754-758.

**AFC010** B.C. De Cooman and D. Krizan : "Nb micro-alloyed CMnAlSiP TRIP steel", Int. Symposium on Niobium Microalloyed Sheet Steel for Automotive Application, 5-8 Dec. 2005, Araxa, MG, Brasil, pp. 303-324.

**AFC011** D. Krizan, S. Traint, R. Sierlinger, H. Pauli, M. Blaimschein and A. Pichler: „Customer oriented

development and optimization of cold rolled intercritically annealed multiphase TRIP steels”, 2nd Int. Conf. on Steels in Cars and Trucks SCT2008, 1-5 June 2008, Wiesbaden, Germany, pp.26-33.

**AFC012** D. Krizan, E. Bocharova, A. Bäumer, D. Mattissen, T. Heller, P. Larour, M. Gruber and A. Pichler: “Development of cold rolled intercritically annealed multiphase TRIP steels with a tensile strength above 980MPa”, 3rd Int. Conf. on Steels in Cars and Trucks SCT2011, 5-9 June 2011, Salzburg, Austria, pp. 165-172.

**AFC013** L. Samek and D. Krizan: “Steel – Material of choice for automotive lightweight applications”, Int. Conf. Metal 2012, 23-25 May 2012, Brno, Czech Republic, p. 6.

**AFC014** S. Mikmekova, K. Hausmann and D. Krizan: „The potentials of ultra-high vacuum scanning low energy electron microscopy for study of multiphase steel”, Int. Conf. ICEAS 2013, 15-17 March 2013, Tokyo, Japan, pp. 830-840.

**AFC015** A. Bachmaier, D. Krizan, K. Hausmann and A. Pichler: “Development of TBF steels with 980MPa tensile strength for automotive applications: microstructure and mechanical properties”, Int. Symposium on New Developments in Advanced High Strength Sheet Steels, 23-27 June 2013, Vail, CO, USA, pp.131-139.

**AFC016** K. Hausmann, D. Krizan, A. Pichler and E. Werner: „1180 MPa TRIP-aided bainitic ferrite steel: a critical assessment of alloy design and heat treatment”, Materials Science and Technology (MS&T) Conf., 27-31 October 2013, Montreal, Quebec, Canada, pp. 209-218.

**AFC017** K. Steineder, R. Schneider, D. Krizan, C. Beal and C. Sommitsch: “Microstructural evolution in 0.1%C5%Mn steel after intercritical annealing depending on temperature and cooling rate”, European conference on heat treatment and 21st IFHTSE Congress, Ed.: H.-W. Zoch, R. Schneider and T. Lübben, 12-15 May 2014, Munich, Germany, pp. 301-308.

**AFC018** T. Hebesberger, A. Pichler, D. Krizan, F. Winkelhofer, C. Walch and R. Sierlinger: “High Ductility AHSS Grades: Dual-Phase and Complex-Phase Grades with Improved Formability”, 3rd Int. Conf. on Steels in Cars and Trucks SCT2014, 15-19 June 2014, Braunschweig, Germany, pp.79-86.

**AFC019** K. Steineder, R. Schneider, D. Krizan, C. Beal and C. Sommitsch: “Influence of intercritical temperature and

cooling rate on microstructural evolution of two carbon steels with medium manganese content”, Int. Conf. High Manganese Steels Conference (HMnS), 31 August – 4 September 2014, RWTH and MPIE, Aachen, Germany, K2-01-103.

**AFC020** S. Kang, E. De Moor, J.G. Speer and D. Krizan: “Aluminum alloyed medium manganese steels”, Int. Conf. on Solid-State Phase Transformations in Inorganic Materials (PTM), 28 June – 3 July 2015, Whistler, BC, Canada.

**AFC021** K. Steineder, D. Krizan, R. Schneider, C. Beal and C. Sommitsch: „The effects of intercritical annealing temperature and initial microstructure on the stability of retained austenite in a 0.1C-6Mn steel“, Int. Conf. Thermec, 29 May – 3 June 2016, Graz, Austria.

**AFC022** K. Steineder, R. Schneider, D. Krizan, C. Beal and C. Sommitsch: “Einfluss des Ausgangsgefüges und der Glüh Temperatur auf die Restaustenitstabilität von Medium-Mn Stählen“, Symposium 12 Jahre MHT, 1 July 2016, FH Wels, Austria, pp.10-11.

**AFC023** K. Steineder, D. Krizan, R. Schneider, C. Beal and C. Sommitsch: „On the micro-scale damage behavior of a 0.1C6Mn Medium-Mn steel“, Int. Conf. High Manganese Steels Conference (HMnS), 16 – 18 November 2016, Chengdu, China, pp. 415-419.

**AFC024** S. Kang, J.G. Speer, D. Krizan, D.K. Matlock and E. De Moor: „Intercritical Annealing Response of Two Medium Manganese Steels Having Different Carbon Concentrations“, Int. Conf. High Manganese Steels Conference (HMnS), 16 – 18 November 2016, Chengdu, China, pp. 430-433.

**AFC025** R. Schneider, K. Steineder, W. Amame, M. Okumiya, D. Krizan and C. Sommitsch: „Determination of a new empirical Ms-formula suitable for Medium-Mn steels“, European conf. on heat treatment and 24th IFHTSE congress, 26-29 June 2017, Nice, France.

**AFC026** S. Kaar, D. Krizan, L. Samek and C. Commenda: “Retained austenite stability in Al-alloyed medium Mn steels”, Internationaler Studierendentag der Metallurgie (ISDM), 11-13 May 2017, Leoben, Austria. pp.1-7.

**AFC027** F. Winkelhofer, T. Hebesberger, D. Krizan, A. Pichler and A. Avakemian: „Development of cold rolled TBF steels with a tensile strength of 1180MPa“, in preparation for 4th Int. Conf. on Steels in Cars and Trucks

SCT2017, 18-22 June 2017, Amsterdam, Netherlands, Paper 151.

**AFD Publikované príspevky na domácich vedeckých konferenciách**

**Počet záznamov: 2**

**AFD001** D. Krizan and L. Krcova: "Structural stability of duplex stainless steels in temperature range of 300-950 °C", Proc. CO-MAT-TECH, Ed.: I. Hrivnak, 2001, Trnava, Slovakia.

**AFD002** D. Krizan: "TRIP Steels – Advanced high strength multiphase steels for automotive applications", Int. Conf. CO-MAT-TECH, 19 Oct. 2006, Trnava, Slovakia, pp.659-668.

**AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií**

**Počet záznamov: 4**

**AFG001** G.N Haidemenopoulos., G. Constantinides, N. Bellas, D. Krizan and H. Kamoutsi: „Strain-induced transformation in low alloy TRIP steels: characterization by magnetic force microscopy”, Int. Conf. EUROMAT 2017, 17-22 September 2017, Thessaloniki, Greece.

**AFG002** T. Hebesberger, A. Pichler, D. Krizan and F. Winkelhofer: „High ductility AHSS grades: improved formability by advanced microstructure control“, EUROCORR 2017, 3 – 7 September 2017, Prague, Czech Republic.

**AFG003** D. Krizan, K. Steineder, R.Schneider, C. Beal and C. Sommitsch: "Structure-property relationship in batch annealed medium-Mn TRIP steels", Int. Conf. Thermec, 8 – 13 July 2018, Paris, France.

**AFG004** R. Schneider, K. Steineder, D. Krizan and C. Sommitsch: "On factors affecting prediction and measurement of retained austenite content in medium-Mn steels", Int. Conf. Thermec, 8 – 13 July 2018, Paris, France.

**AFK Postery zo zahraničných konferencií**

**Počet záznamov: 22**

**AFK001** A. Bäumer, E. Bocharova, T. Heller, D. Krizan and A. Pichler: "New developments in high-strength TRIP steels", Int. Conf. on Materials in Car Body Engineering , 11-12 May 2011, Bad Nauheim, Germany (prezentácia).



**AFK002** A. Pichler, T. Hebesberger, T. Kurz and D. Krizan: „Entwicklungstrends beim Werkstoff Stahl“, Leichtbaugipfel 2012, 13-14 March 2012, Würzburg, Germany (prezentácia).

**AFK003** A. Pichler, A. Bachmaier, T. Hebesberger, D. Krizan, T. Kurz, C. Walch and F. Winkelhofer: „Slimming down with steel“: development trends for steel“, 3rd Int. CTI Conf. „Efficient Lightweight Solutions“, 21-22 November, 2012, Sindelfingen, Germany (prezentácia).

**AFK004** W. Mayer, D. Krizan and E. Kozeschnik: “Simulation of carbo-nitride precipitation in the multi-phase microstructure of low-carbon steel“, EUROMAT 2013, FEMS, 8-13 September 2013, Sevilla, Spain (prezentácia).

**AFK005** S. Mikmekova, K. Hausmann and D. Krizan: „Microstructural characterization of advanced high strength steels by unconventional microscopy techniques“, The First East-Asia Microscopy Conference (EAMC-1), 15-18 October 2013, Chongqing, P.R. China (poster).

**AFK006** A. Pichler, T. Hebesberger, D. Krizan, F. Winkelhofer, C. Kremaszky and E. Werner: „High strength thin sheet grades for the automotive industry: alloy design and process alignments for advanced microstructure and properties“, Symposium New trends in steel making and steel design, 11-12 November 2013, Saarbrücken, Germany (prezentácia).

**AFK007** K. Steineder, D. Krizan, R. Schneider, C. Beal and C. Sommitsch: “Development of TRIP steels with medium Mn content“, Central European PhD Seminar, 13-14 January 2014, Budapest, Hungary (prezentácia).

**AFK008** W. Mayer, D. Krizan and E. Kozeschnik: “Simulation of carbo-nitride precipitation in the multi-phase microstructure of low-carbon steel“, Central European PhD Seminar, 13-14 January 2014, Budapest, Hungary (prezentácia).

**AFK009** A. Pichler, T. Hebesberger, D. Krizan, F. Winkelhofer, R. Sierlinger and C. Walch: “3rd generation of AHSS grades: a new family of steel grades with a significantly improved balance between strength and formability“, Materialien des Karosseriebaus 2014, 13-14 May 2014, Bad Nauheim, Germany (prezentácia).

**AFK010** K. Steineder, M. Dikovits, C. Beal, C. Sommitsch, D. Krizan, R. Schneider: „Hot deformation behavior of a 3rd generation advanced high strength steel with a

	<p>medium Mn content“, ESAFORM – Conference on Material Forming, 15-17 April 2015, Graz, Austria (prezentácia).</p> <p><b>AFK011</b> G.N. Haidemenopoulos, G. Constantinides, I. Bellas, H. Kamoutsi and D. Krizan: “Evolution of austenite particle size during the strain-induced transformation in low-alloy TRIP steels: an experimental study”, Int. Conf. on Engineering Against Failure, 24-26 June 2015, Skiathos, Greece (poster).</p> <p><b>AFK012</b> A. Pichler, K. Hausmann, T. Hebesberger, D. Krizan, F. Winkelhofer and E. Werner: „Phase Transformations, Microstructures and Mechanical Properties of TBF/Q&amp;P Grades”, Int. Conf. Materials Science and Technology (MS&amp;T), 4-8 October 2015, Columbus, OH, USA (prezentácia).</p> <p><b>AFK013</b> D. Krizan, K. Steineder, J. Rehr, R. Schneider, C. Beal and C. Sommitsch: „Development of medium-Mn steels via batch and continuous annealing“, for Int. Conf. Thermec, 29 May – 3 June 2016, Graz, Austria (prezentácia).</p> <p><b>AFK014</b> T. Hebesberger, D. Krizan, A. Pichler, F. Winkelhofer and C. Walch: „High ductility AHSS grades: improved formability by advanced microstructure control“, Int. Conf. Thermec, 29 May – 3 June 2016, Graz, Austria (prezentácia).</p> <p><b>AFK015</b> A. Pichler, T. Hebesberger, D. Krizan and F. Winkelhofer: “Formability of advanced steel grades: a metallurgical approach, Int. Conf. IDDRG, 12-15 June 2016, Linz, Austria (prezentácia).</p> <p><b>AFK016</b> T. Truglas, C. Commenda, M. Arndt, D. Krizan and H. Groß: “The effects of double annealing on medium manganese steel”, in preparation for 7th ASEM workshop of the Austrian Society for Electron Microscopy, 20-21 April 2017, Vienna, Austria (prezentácia).</p> <p><b>AFK017</b> T. Truglas, C. Commenda, M. Arndt, D. Krizan and H. Groß: “The effects of double annealing on medium manganese steel”, in preparation for Microscopy Conference MC2017, 21-25 August 2017, Lausanne, Switzerland (prezentácia).</p> <p><b>AFK018</b> D. Krizan, K. Steineder, J. Rehr, R. Schneider, C. Beal and C. Sommitsch: „Development of batch annealed medium-Mn steels“, Conference on Modern Steels Development and Modelling (MSDM), 30-31 March 2017, Wels, Upper Austria (prezentácia).</p>
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**AFK019** S. Kaar, D. Krizan, C. Commenda and L. Samek: "Retained austenite stability in Al-alloyed medium Mn steels", Conference on Modern Steels Development and Modelling (MSDM), 30-31 March 2017, Wels, Upper Austria (prezentácia).

**AFK020** T. Truglas, C. Commenda, M. Arndt, D. Krizan and H. Groß: "The effects of double annealing on medium manganese steel", Conference on Modern Steels Development and Modelling (MSDM), 30-31 March 2017, Wels, Upper Austria (poster).

**AFK021** R. W. Hofer, S. Kang, D. Krizan, L. Samek and E. De Moor: „ Intercritical annealing of third generation AHSS with medium manganese contents", Conference on Modern Steels Development and Modelling (MSDM), 30-31 March 2017, Wels, Upper Austria (prezentácia).

**AFK022** R. W. Hofer, S. Kang, D. Krizan, L. Samek and E. De Moor: „ Intercritical annealing of third generation AHSS with medium manganese contents", Int. Conf. on Technology and Engineering, 29-31 May 2017, Bangkok, Thailand (prezentácia).

**AGJ Autorské osvedčenia, patenty, objavy**  
**Počet záznamov: 16**

**AGJ001** E. Bocharova, D. Krizan, D. Mattissen, A. Pichler and R. Sebal: WO 02012045613 B1, voestalpine Stahl GmbH/Thyssenkrupp Steel Europe AG, September 2012.

**AGJ002** E. Bocharova, D. Krizan, D. Mattissen, A. Pichler and R. Sebal: WO 02012045595 B1, voestalpine Stahl GmbH/Thyssenkrupp Steel Europe AG, September 2012.

**AGJ003** T. Hebesberger, D. Krizan, S. Paul and A. Pichler: WO 02013144373 A1, voestalpine Stahl GmbH, Apríl 2013.

**AGJ004** S. Paul, D. Krizan, A. Pichler and M. Nakaya: WO 02013144376 A1, voestalpine Stahl GmbH/Kobe Steel Ltd, Apríl 2013.

**AGJ005** D. Krizan, S. Paul, A. Pichler and M. Nakaya: WO 02013144377 A1, voestalpine Stahl GmbH/Kobe Steel Ltd, Apríl 2013.

**AGJ006** E. Bocharova, D. Krizan, D. Mattissen, A. Pichler and R. Sebal: EP 2439290 B1, voestalpine Stahl GmbH/Thyssenkrupp Steel Europe AG, Október 2010.

**AGJ007** E. Bocharova, D. Mattissen, R. Sebald, D. Krizan and A. Pichler: EP 2439291 A1, voestalpine Stahl GmbH/Thyssenkrupp Steel Europe AG, Október 2010.

**AGJ008** E. Bocharova, D. Mattissen, R. Sebald, D. Krizan and A. Pichler: US2013/0248055A1, voestalpine Stahl GmbH/Thyssenkrupp Steel Europe AG, September 2013.

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<p><b>Ohlasy na vedeckú prácu</b></p>	<p><b>Citácie v zahraničných publikáciách registrované v citačných indexoch Web of Science a database SCOPUS</b> <b>Počet všetkých záznamov k 14.5.2017: 145 (SCOPUS)</b> <b>Počet vybraných dokladovaných záznamov: 74 (SCOPUS)</b></p> <p><b>ADC001</b> D. Krizan, T. Waterschoot, A.I. Koruk and B.C. De Cooman: "Bake hardening of laser welded dual phase steel", <i>Steel Research Int.</i>, Vol. 74, 2003, pp. 639-645:</p> <ol style="list-style-type: none"> <li>1. Węglowski MS, Kwieciński K, Krasnowski K, Jachym R. Characteristics of Nd:YAG Laser Welded Joints of Dual Phase Steel. <i>Arch Civ Mech Eng.</i> 2009;9(4):85-97. doi:10.1016/S1644-9665(12)60072-7.</li> <li>2. Weglowski MS, Stano S, Krasnowski K, Lomozik M, Kwiecinski K, Jachym R. Characteristics of Laser Welded Joints of HDT580X Steel. <i>Mater Sci Forum.</i> 2010;638-642:3739-3744. doi:10.4028/www.scientific.net/MSF.638-642.3739.</li> <li>3. Zhang J, Fu R, Zhang M, Liu R, Wei X, Li L. Bake hardening behavior of TRIP and DP steels. <i>J Univ Sci Technol Beijing Miner Metall Mater (Eng Ed).</i> 2008; 15(2):132-137. doi:10.1016/S1005-8850(08)60026-2.</li> </ol>

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