

Krzysztof Muszka – List of publications

1. Books (edited)

1. Szeliga, D., Muszka, K., 2016, Edited: Proceedings of the 16th International Conference on Metal Forming 2016, Key Engineering Materials, 716.
2. Szeliga, D., Muszka, K., 2020, Edited: Proceedings of the 18th International Conference on Metal Forming 2020, Procedia Manufacturing, 50.

2. Book chapters

1. Muszka, K., Majta J., 2010, Study of the effect of ultrafine-grained microstructure of mechanical behavior of microalloyed steels. In: Swiatkowski, K., Blacha, L. et al. (eds.), Polish Metallurgy 2006-2010 in time of the worldwide economic crisis. Committee of Metallurgy of the Polish Academy of Sciences. Publishing House AKAPIT, Krakow, 2010:243-263.
2. Muszka, K., Majta, J., 2014, Multiscale modeling of the effect of very large strain on the microstructure evolution and ductility of microalloyed steels. In: Bonora N., Brown E. (eds.), Numerical modeling of materials under extreme conditions. Series: Advanced Structured Materials, Springer, 35:121-141.
3. Majta J., Muszka, K., 2012, Modelling microstructure evolution and work hardening in conventional and ultrafine-grained microalloyed steel. In: Lin J., Balint D., Pietrzyk, M. (eds.), Microstructure evolution in metal forming processes. Woodhead Publishing Limited: Cambridge, 237-264.
4. Muszka, K., Majta, J., 2016, Controlled inhomogeneity of deformation as a tool to produce advanced structural materials, Plastic deformation: processes, properties and applications, ed. Daniel Hubbard. Nova Science Publishers, New York, 151-180.

3. Papers in international (peer reviewed) journals

1. Sleboda, T., Muszka, K., Majta, J., Hale, P., Wright, R.N., 2006, The possibilities of mechanical property control in fine grained structures, Journal of Materials Processing Technology 177:461-464.
2. Muszka, K., Hodgson, P.D., Majta, J., 2006, A physical based modeling approach for the dynamic behavior of ultrafine grained structures, Journal of Materials Processing Technology 177: 456-460.
3. Stefańska-Kądziela, M., Majta, J., Muszka, K., 2006, Effects of strain rate on work hardening of HSLA and Ti-IF steels, Metallurgy and Foundry Engineering, 32:19-29.
4. Muszka, K., Majta, J., Bienias, Ł., 2006, Effect of grain refinement on mechanical properties of microalloyed steels, Metallurgy and Foundry Engineering, 32:87-96.
5. Muszka, K., Majta, J., Hodgson, P.D., 2007, Modeling of the mechanical behavior of nanostructured HSLA steels, ISIJ International 47:1221-1227.
6. Majta, J., Muszka, K., 2007, Mechanical properties of ultra fine-grained HSLA and Ti-IF steels, Materials Science and Engineering A, 464:186-191.

7. Stefańska-Kądziela, M., Majta, J., Dymek, S., Muszka, K., 2007, Effect of high strain rate on the dislocation structure of microalloyed and IF steels, *Archives of Metallurgy and Materials*, 52:223-229.
8. Svyetlichnyy, D., Majta, J., Muszka, K., 2008, Modeling of microstructure evolution of BCC metals subjected to severe plastic deformation, *Steel Research International*, 79:452-458.
9. Dymek, S., Muszka, K., Majta, J., 2008, Development of fine-grained microstructure in microalloyed steels by severe plastic deformation, *Steel Research International*, 79: 459-466.
10. Muszka, K., Perzyński, K., Madej, Ł., 2008, Application of the cyclic plasticity hardening law to metal forming, *Computer Methods in Materials Science*, 8:165-170.
11. Muszka, K., Hodgson, P., D., Majta, J., 2009, Study of the effect of grain size on the dynamic mechanical properties of microalloyed steels, *Materials Science and Engineering A*, 500:25-33.
12. Muszka, K., Dymek, S., Majta, J., Hodgson, P., 2010, Microstructure and properties of a C-Mn steel subjected to heavy plastic deformation, *Archives of Metallurgy and Materials*, 55: 641-645.
13. Madej, L. Muszka, K., Perzynski, K., Majta, J., Pietrzyk, M., 2011, Computer aided development of the levelling technology for flat products, *CIRP Annals-Manufacturing Technology*, 60:291-294.
14. Sun, L., Muszka, K., Wynne, B. ,P., Palmiere, E.J., 2011, The effect of strain path reversal on high-angle boundary formation by grain subdivision in a model austenitic steel, *Scripta Materialia* 64:280-283.
15. Muszka, K., Sun, L., Palmiere, E., Majta, J., 2011, Microstructure evolution as an effect of strain reversal during the hot deformation of microalloyed steels. *Journal of Iron and Steel Research International*, *Journal of Iron and Steel Research International* 18: 213-217.
16. Lin, S., Muszka, K., Wynne, B., P., Palmiere, E., J., 2011, Effect of strain path reversal on austenite grain subdivision and deformation induced ferrite transformation studied by hot torsion, *Journal of Iron and Steel Research International* 18: 233-237.
17. Dziejic, D., Muszka, K., Majta, J., Palmiere, E., J., 2012, Effect of strain-induced reverse transformation on austenite morphology of microalloyed steel, *Conf. Proc. of the 14th International Conference on Metal Forming, Kraków, Poland. Steel Research International, Special Issue*, 1255-1258.
18. Muszka, K., Majta, J., Madej, Ł., 2013, The effects of deformation and microstructure inhomogeneities in the Accumulative Angular Drawing (AAD), *Materials Science and Engineering A*, 574:68-74.
19. Dziejic, D., Muszka, K., Majta, J., 2013, Strain-induced austenitic structure in microalloyed steels, *Archives of Metallurgy and Materials*, 58:745-750.
20. Sun, L., Muszka, K., Wynne, B., Palmiere, E.J., 2013, On the interactions between strain path reversal and dynamic recrystallisation in 316L stainless steel studied by hot torsion, *Materials Science and Engineering A*, 568:160-170.
21. Muszka, K., 2013, Modelling of deformation inhomogeneity in the angular accumulative drawing process-multiscale approach, *Materials Science and Engineering A*, 559:635-642.
22. Lisiecka-Graca, P., Muszka, K., Majta, J., 2013, Flow stress under cyclic deformation conditions – modelling possibilities, *Computer Methods in Materials Science*, 13:375-381.
23. Muszka, K., Madej, Ł., 2013, Application of the three dimensional digital material representation approach to model microstructure inhomogeneity during processes involving strain path changes, *Computer Methods in Materials Science*, 13:258-263.

24. Muszka, K., Lisiecka-Graca, P., Sitko, M., Madej, Ł., Sun, L., 2013, Application of the multiscale microstructure based modelling techniques for the prediction of strain inhomogeneity in the nonlinear deformation processes, *Computer Methods in Materials Science*, 13:460-470.
25. Muszka, K., Lopez-Pedrosa, M., Raszka, K., Thomas, M., Rainforth, W.M., Wynne, B., P., 2014, The impact of strain reversal on microstructure evolution and orientation relationships in Ti-6Al-4V with an initial alpha colony microstructure, *Metallurgical and Materials Transactions A*, 45:5997-6007.
26. Muszka, K., Dzedzic, D., Madej, Ł., Majta, J., Hodgson, P., Palmiere, E., J., 2014, The development of ultrafine-grained hot rolling products using advanced thermomechanical processing, *Materials Science and Engineering A*, 610:290-296.
27. Muszka, K., Majta, J., 2014, Multiscale analysis of processing-microstructure-mechanical behavior interrelationships of UFG microalloyed steels, *Steel Research International*, 85:1128-1141.
28. Sun, L., Muszka, K., Wynne, B., P., Palmiere, E., J., 2014, Influence of strain history and cooling rate on the austenite decomposition behavior and phase transformation products in a microalloyed steel, *Metallurgical and Materials Transactions A*, 45:3619-3630.
29. Sun, L., Muszka, K., Wynne, B., Palmiere, E.J., 2014, Effect of strain path on dynamic strain-induced transformation in a microalloyed steel, *Acta Materialia*, 66:132-149.
30. Svyetlichnyy, D., Muszka, K., Majta, J., 2015, Three-dimensional frontal cellular automata modeling of the grain refinement during severe plastic deformation of microalloyed steel. *Computational Materials Science*, 102:159-166.
31. Majta, J., Muszka, K., Madej, Ł., Kwiecień, M., Lisiecka-Graca, P., 2015, Study of the effects of micro- and nanolayered structures on mechanical response of microalloyed steels, *Manufacturing Science and Technology*, 3:134-140.
32. Bajda, S., Krzyżanowski, M., Muszka, K., Rainforth, W.M., 2015, Numerical analysis of highly reactive interfaces in processing of nanocrystallised multilayered metallic materials by using duplex technique, *Surface & Coatings Technology*, 277:170-180.
33. Muszka, K., Sroka, J., Sun, L., Wynne, B., P., Palmiere, E., J., 2016, On the use of model alloys as a way to understand the effects of complex deformation conditions on austenite microstructure evolution during hot metal forming processes, *Advances in Materials and Processing Technologies*, 2:143-151.
34. Majta, J., Madej, Ł., Svyetlichnyy, D., Perzyński, K., Kwiecień, M., Muszka, K., 2016, Modeling of the inhomogeneity of grain refinement during combined metal forming process by finite element and cellular automata methods, *Materials Science and Engineering A*, 671:204-213.
35. Lisiecka-Graca, P., Muszka, K., Majta, J., Perzyński, K., 2016, Digital Image Correlation (DIC) system as a verification tool for constitutive models of deformation with complex strain path changes, *Computer Methods in Materials Science*, 16:47-53.
36. Muszka, K., Madej, Ł., Wynne, B., P., 2016, Application of the digital material representation to strain localization prediction in the two phase titanium alloys for aerospace applications, *Archives of Civil and Mechanical Engineering*, 16:224-234.
37. Kwiecień, M., Lisiecka-Graca, P., Muszka, K., Majta, J., 2017, Selected problems of the microstructure evolution during microalloyed steel wire rod production process, *Archives of Metallurgy and Materials*, 62:899-904.
38. Majta, J., Perzyński, K., Muszka, K., Lisiecka-Graca, P., Madej, Ł., 2017, Modeling of grain refinement and mechanical response of microalloyed steel wires severely deformed by combined forming process, *International Journal of Advanced Manufacturing Technology*, 89:1559-1574.

39. Sun, L., Muszka, K., Wynne, B., Palmiere, E., J., 2017, Influence of strain reversal on dynamic transformation in microalloyed steels deformed above the Ae3 temperature, *Journal of Materials Science*, 52:12427-12444.
40. Błoniarz, R., Majta, J., Trujillo, C.P., Cerreta, E.K., Muszka, K., 2018, The mechanisms for strengthening under dynamic loading for low carbon and microalloyed steel, *International Journal of Impact Engineering*, 114:53-62.
41. Kawałko, J., Muszka, K., Lisiecka-Graca, P., Kwiecień, M., Szymula, M., Marciszko-Wiąckowska, M., Bała, P., Madej, Ł., Beyerlein, I., 2019, The effect of strain path changes on texture evolution and deformation behavior of Ti6Al4V subjected to accumulative angular drawing, *Materials Science and Engineering A*, 764:138168.
42. Kwiecień, M., Błoniarz, R., Muszka, K., Majta, J., 2019, Microalloyed steels laminated composites processed by the High-Strain Rate Compression Tests, *Advanced Engineering Materials*, 21:1800098.
43. Perzyński, K., Wang, J., Radwański, K., Muszka, K., Madej, Ł., 2019, Identification of critical strains for the random cellular automata finite element failure model based on in-situ tensile test. *Mechanics of Materials*, *Mechanics of Materials*, 133:154-164.
44. Skubisz, P., Lisiecki, Ł., Majta, J., Muszka, K., 2019, Effect of forging sequence on evolution of parameters controlling microstructure in multistage drop forging process. *Computer Methods in Materials Science*, 19:81-88.
45. Lisiecka-Graca, P., Kwiecień, M., Madej, Ł., Muszka, K., Majta, J., Wynne, B., P., 2019, Controlling deformation inhomogeneity in the Accumulative Angular Drawing Process assisted by constitutive and multiscale numerical modelling, *Computer Methods in Materials Science*, 19:113-121.
46. Chrzan, K., Cichocki, K., Adamczyk, P., Muszka, K., 2020, Selected properties of high entropy alloys based on the AlFeMnNbNiTi system, *Journal of Applied Materials Engineering*, 60:71-80.
47. Sitko, M., Mojżeszko, M., Rychłowski, Ł., Cios, G., Bała, P., Muszka, K., Madej, Ł., 2020, Numerical procedure of three-dimensional reconstruction of ferrite-pearlite microstructure data from SEM/EBSD serial sectioning, *Procedia Manufacturing*, 47:1217-1222.
48. Lisiecka-Graca, P., Majta, J., Muszka, K., 2020, Full-field strain measurement and numerical analysis of a microalloyed steel subjected to deformation with strain path change. *Materials*, *Materials*, 13:5543.
49. Muszka, K., Zych, D., Lisiecka-Graca, P., Madej, Ł., Majta, J., 2020, Experimental and molecular dynamic study of grain refinement and dislocation substructure evolution in HSLA and IF steels after severe plastic deformation, *Metals*, 10:1122.
50. Sitko, M., Chao, Q., Wang, J., Perzyński, K., Muszka, K., Madej, Ł., 2020, A parallel version of the cellular automata static recrystallization model dedicated for high performance computing platforms – development and verification, *Computational Materials Science*, 172: 109283.
51. Szyndler, J., Grosman, F., Tkocz, M., Delannay, L., Wang, J., Muszka, K., Madej, Ł., 2021, Through scale material flow investigation in novel incremental bulk forming process, *Journal of Materials Processing Technology*, 287:116487.
52. Lypchanskyi, O., Śleboda, T., Wojtaszek, M., Muszka, K., Łukaszek-Sołek, A., Stanik, R., Gude, M., 2021, The analysis of flow behavior of Ti-6Al-2Sn-4Zr-6Mo alloy based on the processing maps, *International Journal of Material Forming*, 14:523-532.
53. Bzowski, K., Rauch, Ł., Pietrzyk, M., Kwiecień, M., Muszka, K., 2021, Numerical modeling of phase transformations in dual-phase steels using level set and SSRVE approaches, *Materials*, 14:5363.

54. Majta, J., Kwiecień, M., Lisiecka-Graca, P., Dymek, S., Błoniarz, R., Trujillo, C.P., Muszka, K., 2021, Microstructural effects and mechanical response of microalloyed ferrite and austenite subjected to metal forming at extremely different rates of deformation, *Materials Today Communications*, 28:102472.
55. Muszka, K., Sitko, M., Lisiecka-Graca, P., Simm, T., Palmiere, E.J., Schmidtchen, M., Korpala, G., Wang, J., Madej, Ł., 2021, Experimental and numerical study of the effects of the reversal hot rolling conditions on the recrystallization behavior of austenite model alloys, *Metals*, 11:26.
56. Svyetlichnyy, D., Majta, J., Kuziak, R., Muszka, K., 2021, Experimental and modelling study of the grain refinement of Fe-30wt.%Ni-Nb austenite model alloy subjected to severe plastic deformation process, *Archives of Civil and Mechanical Engineering*, 21:20.
57. Banasiak, M., Hornik, A., Szczęch, S., Majta, J., Kwiecień, M., Cebo-Rudnicka, A., Rywotycki, M., Muszka, K., 2021, Effect of hot-rolled heavy section bars post-deformation cooling on the microstructure refinement and mechanical properties of microalloyed steels, *Metals*, 11:1284.
58. Lisiecka-Graca, P., Bzowski, K., Majta, J., Muszka, K., 2021, A dislocation density-based model for the work hardening and softening behaviors upon stress reversal, *Archives of Civil and Mechanical Engineering*, 21:84.
59. Cichocki, K., Bała, P., Koziel, T., Cios, G., Schell, N., Muszka, K., 2022, Effect of Mo on phase stability and properties in FeMnNiCo high-entropy alloys, *Metallurgical and Materials Transactions A*, 53:1749-1760.
60. Fernández Silva, B., Kawałko, J., Muszka, K., Jackson, M., Fox, K., Wynne, B., P., 2022, Deformation modes investigation during ex-situ dwell fatigue testing in a bimodal near-alpha titanium alloy, *International Journal of Fatigue*, 163:107098.
61. Muszka, K., Kwiecień, M., Perzynski, K., Majta, J., Madej, L., 2022, Metal forming driven surface engineering of thin profile wires for high precision industrial filtration screens, *CIRP Annals Manufacturing-Technology*, 71:26-268.
62. Muszka, K., Błoniarz, R., Cichocki, K., Majta, J., Madej, L., 2023, 3D scanning and 3D printing to develop internally helically ribbed tubes, *CIRP Annals-Manufacturing Technology*, 72:233-236.

4. Papers in national (peer reviewed) journals

1. Doniec, K., Muszka, K., Majta, J., Stefanska-Kadziela, M., 2010, Ocena niestabilności plastycznej stali mikrostopowych odkształczanych z wykorzystaniem technik SPD, *Hutnik-Wiadomości Hutnicze*, 11:670-673.
2. Muszka, K., 2014, Wpływ zmiennej drogi odkształcania na temperature zatrzymania rekrytalizacji w austenicie mikrostopowym podczas odkształcania cyklicznego na goraco, *Hutnik-Wiadomości Hutnicze*, 81:225-231.
3. Muszka, K., Raszka, K., Wynne, B. P., Majta, J., 2016, Wpływ historii odkształcenia na rozwój mikrostruktury stopu Ti6Al4V odkształcanego w zakresie dwufazowym, *Hutnik-Wiadomości Hutnicze*, 84:181-186.

5. Papers in international (peer reviewed) conference proceedings

1. Muszka, K., Majta J., Bator, A., 2004, On the mechanical response of non-stable microstructures, *Conf. Proc. Junior Euromat 2004*, Lausanne, Switzerland, CD.
2. Muszka, K., Majta J., 2004, Modeling of the inhomogeneity of mechanical properties of High Strength Low Alloy Steels, *Conf. Proc. KomPlasTech 2004*, Zakopane, Poland, 347–354.

3. Muszka, K., Majta, J., Stefanska-Kadziela, M., 2005, Modeling of strain rate effects on microstructure evolution and mechanical properties of HSLA and IF-Ti steels, Conf. Proc. HSLA steels 2005, Sanya, China, 513–517.
4. Majta, J., Stefanska-Kadziela, M., Muszka, K., Bator, A., 2005, High strain rate behavior of microalloyed steels for automotive applications, Conf. Proc. Advanced Technology of Plasticity ICTP 2005, Verona, Italy, 431–432.
5. Majta, J., Muszka, K., Stefanska-Kadziela, M., 2006, Study of mechanical properties of ultrafine grained HSLA and IF steels, Conf. Proc. International conference on Mechanics and Materials in Design M2D'2006, Porto, Portugal, 441-442.
6. Majta, J., Muszka, K., 2007, The effect of thermomechanical processing on microstructure and mechanical properties of ultrafine grained microalloyed steels Conf. Proc. The 13th international symposium on Plasticity and its current applications PLASTICITY'07, Girdwood, Alaska. 349–351, CD.
7. Muszka, K., Hodgson, P., D., Majta, J., 2007, The effect of grain refinement on the strengthening mechanisms in low carbon and microalloyed HSLA steels, Conf. Proc. International Symposium on Ultrafine Grained Steels ISUGS-2007, Kitakyushu, Japan, 123-128, CD.
8. Muszka, K., J. Majta, J., Hodgson, P., D., 2007, Study of the grain size effect on the deformation behavior of microalloyed steels, Conf. Proc. Materials Science & Technology 2007 Conference and Exhibition MS&T 2007, Detroit, USA, 493–504, CD.
9. Stefanska-Kadziela, M., Majta, J., Muszka, K., 2007, Strain rate dependency of the dislocation substructure formation in HSLA and IF steels, Conf. Proc. International conference on Microalloyed steels: processing, microstructure, properties and performance, Pittsburgh, USA, 181–192, CD,
10. Majta, J., Muszka, K., Doniec, K., 2008, Ultrafine grained microstructures of microalloyed steels obtained by cold, warm and hot severe plastic deformation, Conf. Proc. 3rd International conference on Thermomechanical processing of steels, Padua, Italy, CD.
11. Muszka, K., Dymek, S., Majta, J., 2008, Transmission electron microscopy of microalloyed steel subjected to severe plastic deformation, Conf. Proc. XIII international conference on Electron Microscopy EM'2008, Zakopane, Poland, CD.
12. Majta, J., Doniec, K., Muszka, K., 2009, On the utilisation of plastic instability criterion in ductility assessment of ultrafine-grained microalloyed steel, Conf. Proc. International conference on Processing & manufacturing of advanced materials Thermec'2009, Berlin, Germany, Materials Science Forum, 638-642:1977-1982.
13. Muszka, K., Wynne, B., P., Palmiere, E., J., Rainforth, W., 2009, Influence of strain path on transformation behaviour of pipeline steel, Conf. Proc. International conference on Processing & manufacturing of advanced materials Thermec'2009, Berlin, Germany, Materials Science Forum, 638-642:3418–3423.
14. Perzynski, K., Madej, L., Muszka, K., Pietrzyk, M., 2009, Numerical investigation of the Bauschinger effect during the low reversal cyclic torsion test, Conf. Proc. 18th international conference on Computer Methods in Mechanics CMM 2009, Zielona Góra, Poland, 367-368.
15. Zurek, A., K., Muszka, K., Majta, J., Wielgus, M., 2009, Multiscale analysis of the effect of grain size on the dynamic behavior of microalloyed steels, Conf. Proc. 9th international conference on the Mechanical and physical behaviour of materials under dynamic loading DYMAT 2009, Brussels, Belgium, 1015-1021.
16. Majta, J., Muszka, K., Doniec, K., Svyetlichnyy, D., 2009, Mapping the dislocation strengthening in rheological model of BCC ultrafine-grained structures, Conf. Proc. Computational Plasticity X: fundamentals and applications, Barcelona, Spain, CD.

17. Muszka, K., Madej, L., Perzynski, K., Śleboda, T., Pietrzyk, M., 2010, The combined hardening rule in application to the numerical modeling of material behavior under cyclic loading, Conf. Proc. 37th Solid Mechanics Conference SolMech 2010, 138–139.
18. Muszka, K., Majta, J., 2010, Modelling of the effect of very large strain on the microstructure evolution and ductility of microalloyed steels, Conf. Proc. 4th international conference on Advanced Computational Engineering and Experimenting ACE-X 2010, Paris, France, CD.
19. Svyetlichnyy, D., Majta, J., Muszka, K., Lach, L., 2010, Modeling of microstructure evolution subjected to severe plastic deformation, Conf. Proc. Advances in Materials and Processing Technologies AMPT 2010, Paris, France, CD.
20. Svyetlichnyy, D., Majta, J., Muszka, K., Lach, L., 2010, Modeling of microstructure evolution of BCC metals subjected to severe plastic deformation, Conf. Proc. Advances in Materials and Processing Technologies AMPT 2010, Paris, France, 1473-1478.
21. Muszka K., Sun L., Wynne B.P., Palmiere E.J., Rainforth W.M., 2010. On the Effect of Strain Reversal on Static Recrystallisation and Strain-Induced Precipitation Process Kinetics in Microalloyed Steels. Proc. of the International Conference on Recrystallization and Grain Growth REX & GG IV - 2010, 4-9 Jul 2010, Sheffield, UK
22. Muszka K., Wielgus M., Majta J., Doniec K., Stefanska-Kadziela M., 2010. Influence of Strain Path Changes on Microstructure Inhomogeneity and Mechanical Behavior of Wire Drawing Products. Proc. of the 7th Pacific Rim International Conference on Advanced Materials and Processing PRICM 7, 2-6 Aug 2010 Cairns, Australia. In: Materials Science Forum, Vols. 654-656, 314-317
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24. Muszka, K., Wynne, B., P., Palmiere, E., J., Rainforth, W., M., 2010, Effect of deformation mode on microstructure evolution in Nb-Microalloyed steel, Conf. Proc. 13th International Conference on Metal Forming Metal Forming 2010, Toyohashi, Japan, 70-73.
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26. Muszka, K., Majta, J., Doniec, K., Dziedzic, D., 2011, Multiscale modeling of the deformation inhomogeneity in the Angular Accumulative Drawing process, Conf. Proc. Materials Science & Technology Conference & Exhibition MS&T'11, Columbus, USA, 252-259, CD.
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28. Muszka, K., Madej, L., Simm, T., Palmiere, E., Rainforth, W., M., Sun, L., 2012 Numerical study of the effects of strain path change on the hot deformation behavior of microalloyed austenite model alloy using multiscale approach, Conf. Proc. Materials Science & Technology : 2012 Conference & Exhibition MS&T'12, Pittsburgh, USA, 685-692, CD.
29. Muszka, K., Sun, L., Madej, L., Wynne, B., Palmiere, E., Majta, J., Rainforth, M., 2012, Multiscale modelling of austenite model alloy subjected to hot deformation with various strain path history, Conf. Proc. 6th International Conference on Multiscale Materials Modeling MMM 2012, Singapore, CD.

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31. Muszka, K., Madej, L., Graca, P., Sitko, M., Sun, L., Palmiere, E., J., 2013, Multiscale modeling of the effect of strain reversal on the deformation behavior of FCC structure using combined 3D digital materials representation and crystal plasticity approach, Conf. Proc. Materials Science & Technology MS&T'13, Montréal, Canada, 1668-1675, CD.
32. Richardson, M., D., Muszka, K., Jones, N., G., Wynne, B., Jackson, M., 2013, Microstructural and mechanical property development in metastable beta titanium alloys, Conf. Proc. AeroMat Conference and Exhibition, Washington, USA, 73-74.
33. Majta, J., Muszka, K., Kwiecien, M., Graca, P., 2013, Fine-scale multilayered structures produced by angular accumulative drawing, Conf. Proc. International workshop on the mechanical behavior of nanoscale multilayers Multilayers'13, Madrid, Spain, CD
34. Muszka, K., Majta, J., Dziejdzic, D., 2013, Study of the effect of thermomechanical processing on grain refinement in HSLA steels, Con. Proc. of 5th International Conference on Physical and Numerical Simulation of Materials Processing ICPNS'13, Oulu, Finland, Materials Science Forum, 762:146-151.
35. Muszka, K., Madej, Ł., Lisiecka-Graca, P., Majta, J., 2013, Numerical modelling of innovative manufacturing processes with induced strain path changes. Proc. of XXIV International CIRP Sponsored conference on Supervising and Diagnostics of Machining Systems Innovative Manufacturing, Karpacz, Poland, Journal of Machine Engineering, 13:59-68.
36. Kalembe-Rec, I., Muszka, K., Wróbel, M., Dymek, S., Hamilton, C., 2013, EBSD analysis of friction stir welded 7136-T76 aluminum alloy, Conf. Proc. XXII Conference on Applied Crystallography, Targanice, Poland, Solid State Phenomena, 203:258-261.
37. Muszka, K., Madej, Ł., Lisiecka-Graca, P., Stefańska-Kądziela, M., Majta, J., 2014, Microstructure-based numerical modelling of manufacturing processes of nanolayered materials, Conf. Proc. CIRP Sponsored Conference on Supervising and Diagnosing of Machining Systems, Karpacz, Poland, Journal of Machine Engineering, 14:39-52.
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