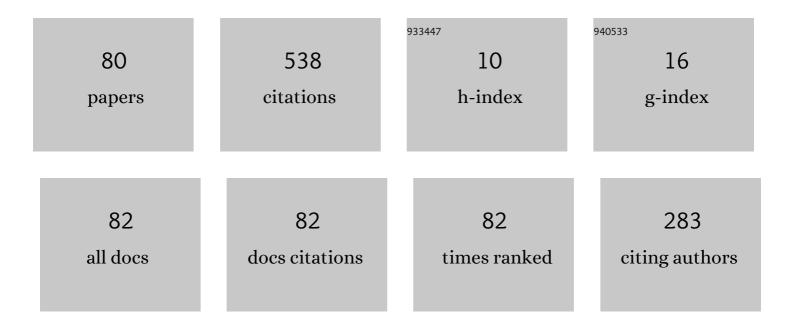
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A New Alloying Concept for Low-Density Steels. Materials, 2022, 15, 2539. | 2.9 | 2 |
| 2 | Effects of Heat Treatment on Additively Manufactured 316L Stainless Steel. Manufacturing Technology, 2022, 22, 261-266. | 1.4 | 4 |
| 3 | High-strength steel components produced by hot metal gas forming. Materials Science and Technology, 2021, 37, 693-701. | 1.6 | 5 |
| 4 | Potential role of machine learning techniques for modeling the hardness of OPH steels. Materials Today Communications, 2021, 26, 101806. | 1.9 | 9 |
| 5 | Hot Rolling vs. Forging: Newly Developed Fe-Al-O Based OPH Alloy. Metals, 2021, 11, 228. | 2.3 | 7 |
| 6 | Determining Forming Limit Diagrams Using Sub-Sized Specimen Geometry and Comparing FLD Evaluation Methods. Metals, 2021, 11, 484. | 2.3 | 7 |
| 7 | Resistance of tool steel processed by unconventional forming technology against abrasive wear. Manufacturing Technology, 2021, 21, 241-246. | 1.4 | 2 |
| 8 | Experimental modelling of materials properties and microstructure of new high-strength steels for press-hardening and hot metal gas forming. IOP Conference Series: Materials Science and Engineering, 2021, 1161, 012003. | 0.6 | 0 |
| 9 | Use of Thixoforming as a Manufacturing Method for Metallic Composites. Metals and Materials International, 2020, 26, 1420-1429. | 3.4 | 3 |
| 10 | The Role of Expanded Polystyrene and Geocell in Enhancing the Behavior of Buried HDPE Pipes under Trench Loading Using Numerical Analyses. Geosciences (Switzerland), 2020, 10, 251. | 2.2 | 10 |
| 11 | Combination of press-hardening and isothermal holding in the treatment of high-strength steels. IOP Conference Series: Materials Science and Engineering, 2020, 723, 012012. | 0.6 | 3 |
| 12 | The Effect of Heat Treatment on the Tribological Properties and Room Temperature Corrosion Behavior of Fe–Cr–Al-Based OPH Alloy. Materials, 2020, 13, 5465. | 2.9 | 5 |
| 13 | High Temperature and Corrosion Properties of A Newly Developed Fe-Al-O Based OPH Alloy. Metals, 2020, 10, 167. | 2.3 | 6 |
| 14 | Grain refinement in hypereutectoid steel by semi-solid processing followed by mechanical working. , 2020, , . | | 0 |
| 15 | Microstructure evolution and creep strength of new-generation oxide dispersion strengthened alloys with high volume fraction of nano-oxides. Procedia Structural Integrity, 2019, 17, 427-433. | 0.8 | 4 |
| 16 | Influence of Austenite Grain Size on Mechanical Properties after Quench and Partitioning Treatment of a 42SiCr Steel. Metals, 2019, 9, 577. | 2.3 | 6 |
| 17 | Performance Evaluation of Pavements Constructed on EPS Geofoam Backfill Using Repeated Plate Load. IOP Conference Series: Earth and Environmental Science, 2019, 221, 012007. | 0.3 | 0 |
| 18 | EFFECTS OF COOLING RATE ON THE VOLUME FRACTION OF RETAINED AUSTENITE IN FORGINGS FROM HIGH-STRENGTH Mn-Si STEELS. Acta Metallurgica Slovaca, 2019, 25, 93-100. | 0.7 | 2 |

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|----|---|-----|-----------|
| 19 | USE OF MULTI-PHASE TRIP STEEL FOR PRESS-HARDENING TECHNOLOGY. Acta Metallurgica Slovaca, 2019, 25, 101-106. | 0.7 | 11 |
| 20 | Influence of Cooling Rate on Microstructure and Mechanical Properties of 42SiCr Steel after Q&P Process. Manufacturing Technology, 2019, 19, 583-588. | 1.4 | 6 |
| 21 | Determination of Transformation Temperatures of Advanced High-Strength Steels and Their Use in Designing Q&P Process Routes. Manufacturing Technology, 2019, 19, 18-22. | 1.4 | 2 |
| 22 | Integration of Press-Hardening Technology into Processing of Advanced High Strength Steels. Materials Science Forum, 2018, 941, 317-322. | 0.3 | 2 |
| 23 | Microstructure Evolution in ODS Alloys with a High-Volume Fraction of Nano Oxides. Metals, 2018, 8, 1079. | 2.3 | 29 |
| 24 | Effect of the Parameters of Semi-Solid Processing on the Elimination of Sharp-Edged Primary Chromium Carbides from Tool Steel. Metals, 2018, 8, 713. | 2.3 | 12 |
| 25 | Q&P process in press-hardening of 42SiCr steel. Acta Metallurgica Slovaca, 2018, 24, 52. | 0.7 | 1 |
| 26 | NEW TREATMENT ROUTE FOR CLOSED-DIE FORGINGS OF STEELS WITH 2.5% MANGANESE. Acta Metallurgica Slovaca, 2018, 24, 119-125. | 0.7 | 1 |
| 27 | EFFECTS OF Q&P PROCESS PARAMETERS ON PROPERTIES OF 42SiCr STEEL. Acta Metallurgica Slovaca, 2018, 24, 126. | 0.7 | 4 |
| 28 | Complex shape metallic glass composites produced in one step by mini-thixoforming. International Journal of Material Forming, 2017, 10, 173-180. | 2.0 | 0 |
| 29 | High Versatility of Niobium Alloyed AHSS. Archives of Metallurgy and Materials, 2017, 62, 1485-1491. | 0.6 | 14 |
| 30 | Semi-solid processing of high-chromium tool steel to obtain microstructures without carbide network. IOP Conference Series: Materials Science and Engineering, 2017, 179, 012036. | 0.6 | 1 |
| 31 | Microstructure Evaluation of New ODS Alloys with Fe-Al Matrix and Al2O3 Particles. , 2017, , . | | 3 |
| 32 | EFFECT OF HEATING TEMPERATURE DURING SEMI-SOLID PROCESSING ON STRUCTURE OF X210CR12 STEEL. Acta Metallurgica Slovaca, 2017, 23, 229-235. | 0.7 | 4 |
| 33 | Influence of thermomechanical treatment on the grain-growth behaviour of new Fe-Al based alloys with fine Al2O3 precipitates. Materiali in Tehnologije, 2017, 51, 759-768. | 0.5 | 11 |
| 34 | Innovative Process to Eliminate Ledeburite Network in Tool Steel. Manufacturing Technology, 2017, 17, 940-945. | 1.4 | 2 |
| 35 | THERMO-MECHANICAL TREATMENT OF 42SICR AND 42MNSI STEELS. Acta Metallurgica Slovaca, 2017, 23, 244-250. | 0.7 | 1 |
| 36 | Steel - a Classic Material with a Large Potential for the Future. IOP Conference Series: Materials Science and Engineering, 2016, 118, 012001. | 0.6 | 0 |

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|----|--|-----|-----------|
| 37 | Capabilities of Unconventional Processing of Multiphase AHSS Steels. IOP Conference Series: Materials Science and Engineering, 2016, 118, 012023. | 0.6 | 1 |
| 38 | Obtaining a TRIP microstructure by thermomechanical treatment without isothermal holding. IOP Conference Series: Materials Science and Engineering, 2016, 118, 012024. | 0.6 | 1 |
| 39 | Material and technological modelling of closed-die forging. Materiali in Tehnologije, 2016, 50, 499-503. | 0.5 | 4 |
| 40 | Behaviour of new ODS alloys under single and multiple deformation. Materiali in Tehnologije, 2016, 50, 891-898. | 0.5 | 12 |
| 41 | Continuous Cooling of CMnSi TRIP Steel. Materials Today: Proceedings, 2015, 2, S677-S680. | 1.8 | 10 |
| 42 | Effect of Input Structure of Blank on Development of Final Structure when Processing at Temperatures between Solidus and Liquidus. Procedia Engineering, 2015, 100, 722-729. | 1.2 | 2 |
| 43 | The Effect of Chromium on Microstructure Development During Q-P Process. Materials Today: Proceedings, 2015, 2, S627-S630. | 1.8 | 20 |
| 44 | Various Approaches to Accelerated Carbide Spheroidization of 54SiCr Steel. Key Engineering Materials, 2015, 647, 3-8. | 0.4 | 2 |
| 45 | Combination of International High Pressure Forming and Q-P Process for Production of Hollow Products from Ahs Steel. Advanced Materials Research, 2015, 1127, 9-15. | 0.3 | 3 |
| 46 | Material-technological Modelling of C45 Steel Die Forgings. Procedia Engineering, 2015, 100, 714-721. | 1.2 | 7 |
| 47 | Development of numerical models for the heat-treatment-process optimisation in a closed-die forging production. Materiali in Tehnologije, 2015, 49, 471-475. | 0.5 | 1 |
| 48 | Investigation on new creep- and oxidation-resistant materials. Materiali in Tehnologije, 2015, 49, 645-651. | 0.5 | 7 |
| 49 | Production of shaped semi-products from AHS steels by internal pressure. Materiali in Tehnologije, 2015, 49, 739-744. | 0.5 | 3 |
| 50 | Designing Q&P Process for Experimental Steel with 0.47 % Carbon Content. Advanced Materials Research, 2014, 887-888, 257-261. | 0.3 | 1 |
| 51 | Influence of metastable retained austenite on macro and micromechanical properties of steel processed by the Q&P process. Journal of Alloys and Compounds, 2014, 615, S163-S168. | 5.5 | 50 |
| 52 | Microstructure of tool steel upon combined semi-solid processing and thermomechanical treatment. Journal of Alloys and Compounds, 2014, 586, S165-S167. | 5.5 | 8 |
| 53 | Modification of metastable microstructure of CPM15V steel by heat exposure after treatment in semi-solid state. Journal of Alloys and Compounds, 2014, 586, S159-S164. | 5.5 | 9 |
| 54 | Optimization of the Q-P Process Parameters for Low Alloyed Steels with 0.2% C. Archives of Metallurgy and Materials, 2014, 59, 1205-1210. | 0.6 | 5 |

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|----|---|-----|-----------|
| 55 | The Effect of Alloying on Mechanical Properties of Advanced High Strength Steels. Archives of Metallurgy and Materials, 2014, 59, 1189-1192. | 0.6 | 19 |
| 56 | Microstructure of X210Cr12 steel after the forming in semi-solid state visualized by very low energy SEM in ultra high vacuum. Applied Surface Science, 2013, 275, 403-408. | 6.1 | 10 |
| 57 | Q-P Process on Steels with Various Carbon and Chromium Contents. , 2013, , 819-824. | | 1 |
| 58 | The influence of deformation and cooling parameters after transition through semi-solid state on structure development of ledeburite steel. Journal of Alloys and Compounds, 2012, 536, S204-S207. | 5.5 | 11 |
| 59 | Micro-Compression Test of Thixoformed Austenite. Solid State Phenomena, 2012, 192-193, 215-218. | 0.3 | 2 |
| 60 | Microstructure and Mechanical Behavior of a Mini-Thixoformed Tool Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3034-3038. | 2.2 | 15 |
| 61 | Metastable structure of austenite base obtained by rapid solidification in a semi-solid state. Journal of Alloys and Compounds, 2011, 509, S312-S315. | 5.5 | 19 |
| 62 | Fatigue properties of a low alloy 42SiCr steel heat treated by quenching and partitioning process. Procedia Engineering, 2011, 10, 3310-3315. | 1.2 | 12 |
| 63 | Unconventional structure of X210Cr12 steel obtained by thixoforming. Journal of Alloys and Compounds, 2010, 504, S500-S503. | 5.5 | 21 |
| 64 | Structure of miniature components from steel produced by forming in semi-solid state. Transactions of Nonferrous Metals Society of China, 2010, 20, s1037-s1041. | 4.2 | 15 |
| 65 | The Influence of Thermomechanical Treatment of TRIP Steel on its Final Microstructure. Journal of Materials Engineering and Performance, 2009, 18, 385-389. | 2.5 | 6 |
| 66 | Influence of the chemical composition of 20MoCrS4 and low-alloyed TRIP steel on the intensity of high temperature corrosion. Materials and Corrosion - Werkstoffe Und Korrosion, 2007, 58, 704-709. | 1.5 | 1 |
| 67 | Comparison of intensity of high temperature surface damage for 20MoCrS4 steel with varying parameters of dynamical heating. Materials Science and Technology, 2006, 22, 1444-1448. | 1.6 | 0 |
| 68 | Advanced Material-Technological Modelling of Complex Dynamic Thermomechanical Processes. Materials Science Forum, 0, 654-656, 1594-1597. | 0.3 | 2 |
| 69 | The Effect of Mn and Si on the Properties of Advanced High Strength Steels Processed by Quenching and Partitioning. Materials Science Forum, 0, 654-656, 94-97. | 0.3 | 21 |
| 70 | Experimental and Numerical Investigation of the Steel X210Cr12 Forming in Semi-Solid State. Advanced Materials Research, 0, 214, 461-466. | 0.3 | 0 |
| 71 | Effect of Quenching and Partitioning Temperatures in the Q-P Process on the Properties of AHSS with Various Amounts of Manganese and Silicon. Materials Science Forum, 0, 706-709, 2734-2739. | 0.3 | 27 |
| 72 | Rapid Spheroidization and Grain Refinement Caused by Thermomechanical Treatment for Plain Structural Steel. Materials Science Forum, 0, 706-709, 2770-2775. | 0.3 | 5 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Mini-Thixoforming of a Steel Produced by Powder Metallurgy. Solid State Phenomena, 0, 192-193, 500-505. | 0.3 | 7 |
| 74 | Steels with High Temperature Carbides - New Possibilities for Semi-Solid State Processing. Solid State Phenomena, 0, 217-218, 325-331. | 0.3 | 0 |
| 75 | Semi-Solid Processing of Powder Steels in Cryogenically-Cooled Die. Materials Science Forum, 0, 783-786, 801-806. | 0.3 | 4 |
| 76 | Microstructural and Hardness Evolution of New Developed OPH Steels. Solid State Phenomena, 0, 294, 92-97. | 0.3 | 2 |
| 77 | Corrosion Behavior and Mechanical Properties of New Developed Oxide Precipitation Hardened Steels. Key Engineering Materials, 0, 846, 87-92. | 0.4 | 2 |
| 78 | Annealing Effects on the Microstructure and Thermomechanical Properties of New-Generation ODS Alloys. Key Engineering Materials, 0, 834, 67-74. | 0.4 | 3 |
| 79 | Influence of Chromium and Niobium on the Press-Hardening Process of Multiphase Low-Alloy TRIP Steels. Materials Science Forum, 0, 1016, 636-641. | 0.3 | 4 |
| 80 | Assessment the Role of Expanded-Polysterene Block and Grogrid Layer on Behavior of Buried Pipeline. IOP Conference Series: Earth and Environmental Science, 0, 609, 012014. | 0.3 | 2 |