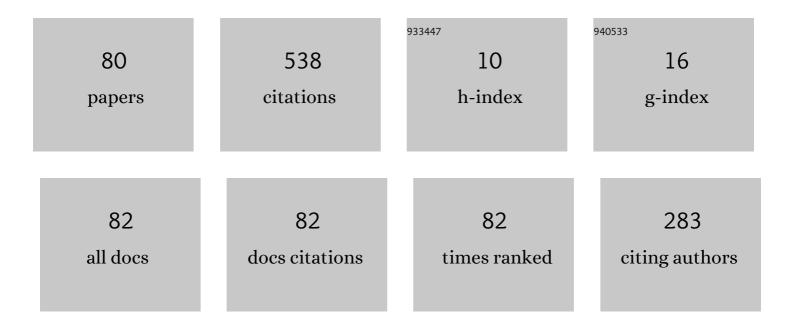
List of Publications by Year in descending order

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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

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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