

# Robert Bidulsky

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	MIG and TIG Joining of AA1070 Aluminium Sheets with Different Surface Preparations. <i>Materials</i> , 2022, 15, 412.	2.9	1
2	Experimental and Numerical Thickness Analysis of TRIP Steel under Various Degrees of Deformation in Bulge Test. <i>Materials</i> , 2022, 15, 2299.	2.9	2
3	Overview of HSS Steel Grades Development and Study of Reheating Condition Effects on Austenite Grain Size Changes. <i>Materials</i> , 2021, 14, 1988.	2.9	23
4	Innovative Densification Process of a Fe-Cr-C Powder Metallurgy Steel. <i>Metals</i> , 2021, 11, 665.	2.3	7
5	Effect of the Temperature on the Magnetic and Energetic Properties of Soft Magnetic Composite Materials. <i>Energies</i> , 2021, 14, 4400.	3.1	8
6	Recent Advances in Multi-Functional Coatings for Soft Magnetic Composites. <i>Materials</i> , 2021, 14, 6844.	2.9	22
7	Coated Metal Powders for Laser Powder Bed Fusion (L-PBF) Processing: A Review. <i>Metals</i> , 2021, 11, 1831.	2.3	24
8	Case Study of the Tensile Fracture Investigation of Additive Manufactured Austenitic Stainless Steels Treated at Cryogenic Conditions. <i>Materials</i> , 2020, 13, 3328.	2.9	28
9	Influence of Processing Conditions on Properties of AISI 316LN Steel Grade. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1509-1514.	2.5	8
10	KOSICE SELF-GOVERNING REGION AND THEIR INTERNATIONAL COOPERATION IN THE AREAS OF THE SPACE INDUSTRY AND AVIATION. <i>Acta Metallurgica Slovaca</i> , 2020, 26, 138-140.	0.7	1
11	Different Formation Routes of Pore Structure in Aluminum Powder Metallurgy Alloy. <i>Materials</i> , 2019, 12, 3724.	2.9	15
12	Junction Characterization in a Functionally Graded Aluminum Part. <i>Materials</i> , 2019, 12, 3475.	2.9	6
13	Influence of cryorolling on properties of L-PBF 316l stainless steel tested at 298K and 77K. <i>Acta Metallurgica Slovaca</i> , 2019, 25, 283-290.	0.7	15
14	Innovative Soft Magnetic Composite Materials: Evaluation of magnetic and mechanical properties. <i>Open Engineering</i> , 2018, 8, 368-372.	1.6	6
15	The mechanical properties of OFHC copper and CuCrZr alloys after asymmetric rolling at ambient and cryogenic temperatures. <i>Open Engineering</i> , 2018, 8, 426-431.	1.6	6
16	A New Approach to Heat Treatment of High-Strength Powder Steels. <i>Metal Science and Heat Treatment</i> , 2017, 58, 734-737.	0.6	0
17	Derivation, testing and application of a practical compaction equation for cold die-compacted metal powders. <i>Powder Technology</i> , 2017, 322, 447-460.	4.2	21
18	Investigation of the Ultrafine-Grained Structure Formation under Different Strain Rates. <i>Archives of Metallurgy and Materials</i> , 2017, 62, 851-856.	0.6	0

#	ARTICLE	IF	CITATIONS
19	The Effect of Cryo-Rolling and Annealing on Magnetic Properties in Non-Oriented Electrical Steel. Acta Physica Polonica A, 2017, 131, 1105-1107.	0.5	3
20	Hot Compression Test of Heat Resistant Steel. Acta Physica Polonica A, 2017, 131, 1340-1344.	0.5	1
21	Microdeformation Processes in Soft Magnetic Compounds. Acta Physica Polonica A, 2017, 131, 1367-1371.	0.5	1
22	EVALUATION OF HIGHT PURITY ALUMINIUM AFTER ASYMMETRIC ROLLING AT AMBIENT AND CRYOGENIC TEMPERATURES. Acta Metallurgica Slovaca, 2017, 23, 99-104.	0.7	13
23	LASER POWDER BED FUSION OF ALUMINUM ALLOYS. Acta Metallurgica Slovaca, 2017, 23, 276-282.	0.7	22
24	EFFECT OF GRANULOMETRY AND OXYGEN CONTENT ON SMC MAGNETIC PROPERTIES. Acta Metallurgica Slovaca, 2017, 23, 356-362.	0.7	5
25	MECHANICAL PROPERTIES AND POROSITY OF Ti-6Al-4V ALLOY PREPARED BY AM TECHNOLOGY. MM Science Journal, 2017, 2017, 1752-1755.	0.4	9
26	Formability Evaluation of Aluminium Alloys by FLD Diagrams. Acta Physica Polonica A, 2017, 131, 1344-1347.	0.5	2
27	Porosity Behaviour of Insulated Iron Powder Compounds. Acta Physica Polonica A, 2017, 131, 1384-1387.	0.5	1
28	Dry sliding wear behaviour of low alloyed sintered steels in relation to microstructure and fracture behaviour. Powder Metallurgy, 2016, 59, 121-127.	1.7	5
29	The Study of Local Effect of Manganese on Microstructure Development of Admixed Fe-Mn-C Sintered Steels. High Temperature Materials and Processes, 2016, 35, 865-870.	1.4	1
30	HOT COMPRESSION TEST OF 9 Cr-1 Mo STEEL – NUMERICAL SIMULATION. Acta Metallurgica Slovaca, 2016, 22, 102.	0.7	4
31	MECHANICAL PROPERTIES OF POWDER CoCrW-ALLOY PREPARED BY AM TECHNOLOGY. MM Science Journal, 2016, 2016, 1586-1589.	0.4	6
32	A COMPACTING PROCESS OF THE EN AW 6060 ALLOY. Acta Polytechnica, 2015, 55, 301.	0.6	3
33	New Approach In The Properties Evaluation Of Ultrafine-Grained OFHC Copper. Archives of Metallurgy and Materials, 2015, 60, 605-614.	0.6	5
34	Interparticle Neck Connections in Innovative Insulated Iron Powder Compounds. Acta Physica Polonica A, 2015, 128, 647-651.	0.5	2
35	EXTRUSION OF SHORT ALUMINIUM BILLETS - SIMULATION AND SEMI-PILOT TEST. Acta Metallurgica Slovaca, 2015, 21, 164-170.	0.7	1
36	EVALUATION OF FORMABILITY OF THIN SHEETS BASED ON Al-Mg-Si FOR AUTOMOTIVE INDUSTRY. Acta Metallurgica Slovaca, 2015, 21, 176-183.	0.7	2

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37	MECHANICAL PROPERTIES LASER WELDING AUTOMOTIVE STEEL SHEETS. Acta Metallurgica Slovaca, 2015, 21, 195.	0.7	1
38	Influence of Annealing Conditions on Structural Development of Cryo Rolled FeSi Steel. Acta Physica Polonica A, 2014, 126, 184-185.	0.5	5
39	Analysis of the Fracture Surfaces of New Development Insulated Iron Powder Compounds. Acta Physica Polonica A, 2014, 126, 154-155.	0.5	2
40	Sliding Wear of TiCN PVD Coated Prealloyed Chromium Sintered Steel. High Temperature Materials and Processes, 2014, .	1.4	0
41	Analysis of Densification Process and Structure of PM Al-Mg-Si-Cu-Fe and Al-Zn-Mg-Cu-Sn Alloys. Archives of Metallurgy and Materials, 2014, 59, 17-23.	0.6	1
42	ALUMINIUM ALLOY ADDITION EFFECTS ON THE BEHAVIOUR OF SOFT MAGNETIC MATERIALS AT LOW FREQUENCIES. Acta Metallurgica Slovaca, 2014, 20, 271-278.	0.7	11
43	VARIOUS POSSIBILITIES OF THE HOT EXTRUSION IN ALUMINUM CHIPS PROCESSING. Acta Metallurgica Slovaca, 2014, 20, 302-308.	0.7	7
44	ANALYSIS OF METALLIC MATERIALS FOR ITER WITH THE EMPHASIS ON COPPER ALLOYS. Acta Metallurgica Slovaca, 2014, 20, 397-404.	0.7	3
45	Identification of the Critical Pore Sizes in Sintered and Ecaped Aluminium 6XXX Alloy. Archives of Metallurgy and Materials, 2013, 58, 371-375.	0.6	6
46	Application of Workability Test to Spd Processing. Archives of Metallurgy and Materials, 2013, 58, 407-412.	0.6	14
47	Response of the Cr-alloyed PM Steels on Vacuum Sintering and Heat Treatment. High Temperature Materials and Processes, 2013, 32, 467-473.	1.4	3
48	Role of Microstructure Discontinuities in the Soft Magnetic Composites with Aluminium Alloy Addition. Archives of Metallurgy and Materials, 2013, 58, 365-370.	0.6	0
49	Wear Characteristics of Sintered Cermets. High Temperature Materials and Processes, 2012, 31, .	1.4	2
50	Investigations on Different Processing Conditions on Soft Magnetic Composite Material Behavior at Low Frequency. IEEE Transactions on Industry Applications, 2012, 48, 1335-1343.	4.9	24
51	Correlation between Microstructure/Fracture Surfaces and Material Properties. Acta Physica Polonica A, 2012, 122, 548-552.	0.5	8
52	The Porosity Evaluation during ECAP in Aluminium PM Alloy. Acta Physica Polonica A, 2012, 122, 553-556.	0.5	11
53	Mechanical and Structural Properties of High Purity Al Processed by ECAP. Acta Physica Polonica A, 2012, 122, 557-560.	0.5	1
54	The Production of Cracks Evolution in Continuously Cast Steel Slab. High Temperature Materials and Processes, 2011, 30, .	1.4	5

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55	Stainless Steels Sintered Form the Mixture of Prealloyed Stainless Steel and Alloying Element Powders. Materials Science Forum, 2011, 672, 165-170.	0.3	8
56	Wear Characteristics of Vacuum Sintered Steels. Materials Science Forum, 2011, 672, 17-22.	0.3	3
57	Improvement of Mechanical Properties of Fe-Cr-Mo-[Cu-Ni]-C Sintered Sintered Steels by Sinter Hardening. Materials Science Forum, 2011, 672, 31-38.	0.3	5
58	Study of Different Vacuum Heat Treatments on the Strength of a Low Alloyed Sintered Steel. High Temperature Materials and Processes, 2011, 30, .	1.4	0
59	Study of the High-Temperature Behaviour of Aluminium Alloy En Aw 2014. Archives of Metallurgy and Materials, 2011, 56, .	0.6	0
60	Influence of ECAP on Densification Behaviour in the PM Aluminium Al-Mg-Si-Cu-Fe Alloy. Journal of Electrical Engineering, 2010, 61, 308-310.	0.7	1
61	Effect of ECAP on the Dimensional and Morphological Characteristics of High Performance Aluminium PM Alloy. Materials Science Forum, 2010, 667-669, 535-540.	0.3	2
62	WEAR CHARACTERISTICS OF $\text{Cu}$ OFHC MATERIAL PREPARED BY ORBITAL FORGING AND ECAP. International Journal of Modern Physics B, 2010, 24, 797-804.	2.0	0
63	Microstructure evolution in Fe-Mn-C during step sintering. Powder Metallurgy, 2010, 53, 244-250.	1.7	7
64	New lines of investigation on the effects of processing conditions on soft magnetic composite materials behaviour for electromagnetic applications. , 2010, , .		5
65	Influence of ECAP-Back Pressure on the Porosity Distribution. Acta Physica Polonica A, 2010, 117, 864-868.	0.5	18
66	The Effects of Chemical Composition on Soft Magnetic Materials Behaviour. Acta Physica Polonica A, 2010, 118, 802-803.	0.5	14
67	Investigation of Fracture Surfaces of Soft Magnetic Materials. Acta Physica Polonica A, 2010, 118, 800-801.	0.5	3
68	Effect of High-temperature Sintering and Severe Plastic Deformation on the Porosity Distribution. High Temperature Materials and Processes, 2009, 28, 337-342.	1.4	17
69	Wear Mechanism of Chromium Pre-Alloyed Sintered Steel. High Temperature Materials and Processes, 2009, 28, 175-180.	1.4	11
70	Apparent Activation Energy for High-Temperature Deformation of EN AW 2014. High Temperature Materials and Processes, 2009, 28, 315-322.	1.4	1
71	Wear Resistance of Fe (Cr-Mo)- [0-2%Cu]- 0.65% C Sintered Steels: Improvement of the Characteristics Using High Temperature and Fast Cooling. High Temperature Materials and Processes, 2008, 27, .	1.4	4
72	Effect of Various Processing Conditions on the Tensile Properties and Structural Developments of EN AW 2014 Aluminium Alloy. High Temperature Materials and Processes, 2008, 27, 203-207.	1.4	13

#	ARTICLE	IF	CITATIONS
73	Industrial processing, microstructures and mechanical properties of Fe <sup>2</sup> (2 <sup>4</sup> )Mn (0.85Mo) (0.3 <sup>0.7</sup> )C sintered steels. Powder Metallurgy, 2004, 47, 180-189.	1.7	22
74	Wear of TiCN Coated Sintered Fe-1.5Cr-0.2Mo-0.7C Steels. Key Engineering Materials, 0, 409, 390-393.	0.4	1
75	The Compressibility Behaviour of a New Generation of Coated Metal/Ceramic Composite Powders. Key Engineering Materials, 0, 409, 362-364.	0.4	1
76	Effect of Severe Plastic Deformation on the Characteristics of a PM Aluminum Alloy. Advanced Materials Research, 0, 189-193, 2838-2841.	0.3	1
77	Effect of Different Vacuum Heat Treatments on the Microstructure of a Low Alloyed Sintered Steel. Materials Science Forum, 0, 672, 293-296.	0.3	5
78	Microstructure, Fracture and Mechanical Properties of ECAPed Aluminum P/M Alloy with Respect to the Porosity. Materials Science Forum, 0, 783-786, 108-113.	0.3	2
79	The Influence of Thermo-Plastic Processes on Materials Recovery. Materials Science Forum, 0, 782, 379-383.	0.3	3
80	Evaluation of the Material Properties of the Ti and CoCr Alloys Prepared by Laser Powder Bed Fusion. Materials Science Forum, 0, 985, 223-228.	0.3	1